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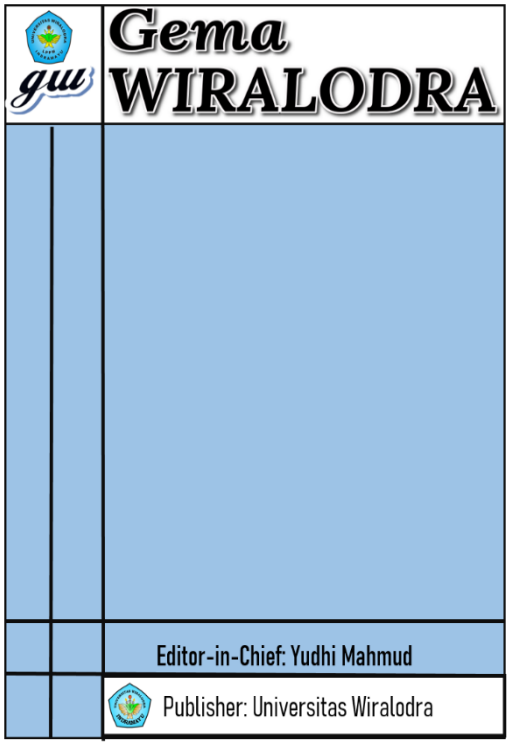

The Promotion and Communication of Occupational Health and Safety at PT Pertamina International (KPI) Refinery Unit Balongan - Indramayu

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Orginal Article

The Promotion and Communication of Occupational Health and Safety at PT Pertamina International (KPI) Refinery Unit Balongan - Indramayu

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Abstract
PT. Pertamina Internasional (KPI) Refinery Unit VI Balongan is one of the refineries of PT. Pertamina (Persero) processes oil and natural gas into BBM (Fuel Oil), non-fuel and Petrochemical products. Potency the dangers that exist at PT. Pertamina International (KPI) RU VI Balongan Refinery, starting from mild potential dangers to potentially fatal dangers. Taking precautions requires a form of preventing work accidents. This research aims to discover programs, procedures and implementation Promotion and Communication of Occupational Health and Safety (OHS) carried out by PT. Pertamina Internasional (KPI) Refinery unit VI Balongan. The research method used was descriptive qualitative. Data collection methods use field observations, interviews, and literature studies. The population in this study was the HSSE Department. Descriptive data management method. In results of this observation, there is an Occupational Health and Safety (OHS) Promotion and Communication program implemented by PT. Pertamina International Refinery (KPI) Refinery unit VI Balongan includes Grand Safety Talk, Safety Walk and Talk, Toolbox Meeting, OHS Signs, and Tank Module Extinguishing Training at the Fire Ground. Promotion procedures OHS at PT. Pertamina Internasional (KPI) Refinery unit VI Balongan refers to company procedures, namely TKO No. B07-022/KPI49530/2022-S9 1st Revision concerning Implementation of Safety Communication and TKI No. C07-004/KPI49520/2022-S9 regarding the Implementation of Tank Module Outage Simulations at the Fire Ground. Implementation of Occupational Health and Safety Promotion and Communication programs (OHS) for OHS communication related to the toolbox meeting is not by the procedures and the implementation of OHS training is by the procedures.
Keywords: Prevention, Procedure, Productivity, Program, and Worker

1. Introduction

According to the International Labor Organization (ILO), 2.78 million workers die every year due to work accidents and work-related diseases. In addition, non-fatal accidents affect 374 million workers every year and many of these accidents have serious consequences for workers' earning capacity (International Labour Organization (ILO), 2018). The Social Security Administering Agency (BPJS) for Employment in 2022 also recorded that the number of work accidents in Indonesia was 234,270 cases in 2021. This number increased by 5.65% from the previous year which amounted to 221,740 cases.

Accident prevention is fundamental for companies because it concerns the souls of the workforce and the work environment itself which is the cause of accidents. Therefore, it is important to implement Occupational Safety and Health Promotion as an early management system to prevent and control hazards so that losses in the form of material and human life can be prevented or minimized, such as Occupational Safety and Health Training, OHS Communication. Promoting occupational safety and health among workers, employers and the community is important for companies, to create harmonious, dynamic, and fair industrial relations that guarantee business peace, work calm, and productivity through developing a culture of occupational safety and health (Destari et al., 2017).

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Work accidents are generally caused by 2 main things, namely unsafe behavior (unsafe behavior/unsafe action) and unsafe conditions. (Suma'mur, 1981) Estimates that 85% of work accidents occur as a contribution to unsafe work behavior. Santoso also states that 80-85% of accidents are caused by human factors (Santoso, 2004). The causes of work accidents in Indonesia are unsafe behavior and equipment. Prevention and reduction of accidents and work-related diseases can be done by implementing OHS promotion.

Potential hazards at PT Pertamina International Refinery Unit VI Balongan range from mild potential hazards to fatal potential hazards. Potential minor hazards include being hit by objects, falling, being pinched, and exposure to hazardous chemicals. Fatal hazards are in the form of explosions, fires, and exposure to chemicals that are B3 which can cause death while working in the field. Therefore, to reduce the number of work accidents, an Occupational health and Safety Management System (OHSMS) is needed to ensure safety aspects and prevent losses due to work accidents

PT Pertamina International (Persero) Refinery Unit VI Balongan experienced a fire and explosion on Monday. March 29, 2021, in the early morning. Based on the above problems by considering the impact caused in the event of an explosion or other incident, PT Pertamina International Refinery (Persero) Refinery Unit VI Balongan promotes and communicates related to OHS. The purpose of this research is to find out about programs, procedures, and implementation of occupational health and safety promotion and communication at PT. Pertamina International Refinery (KPI) unit VI Balongan Indramayu.

2. Method

2.1. Introduction

The introduction to this final assignment is the difference in the time of the final assignment report and the location of the final assignment in the final assignment report of Reza Saputra with the title Promotion of Occupational Health and safety at PT Inoac Polytechno Karawang in 2022, the final assignment report of Kinanti Alfiany Nurhidayah with the title Promotion of Occupational health and safety at PT Pertamina (Persero) TBRM Tegal in 2022 and the paper of Rifky Haikal Ramadhan with the title Safety Lifting and Material Handling at PT Pertamina RU VI Balongan Indramayu in 2022.

2.2. Data Retrieval

Data collection carried out by the author, namely:

1. Primary data is data obtained or collected directly in the field by the person conducting the research or concerned who needs it primary data collection by conducting field observations and interviews. Field observations were carried out directly at PT. Pertamina Internasional (KPI) Refinery Unit VI Balongan Indramayu regarding matters relating to the Occupational Safety and Health Promotion Program. Interviews were conducted directly with field supervisors and with the operators concerned.
2. Secondary data is a data source obtained by reading. studying and understanding through other media sourced from literature, books, and documents (Sugiyono, 2012). Secondary data collection by conducting literature studies from books, and magazines related to issues related to the title taken.

2.3. Data Processing

The data presented uses a descriptive method that seeks to describe, describe Promotion and Communication of Occupational health and safety by existing conditions, developing policies that are ongoing in the company, and then discussing the results of data obtained in the

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field and from HSE regarding programs, procedures, implementation of Promotion and Communication of Occupational health and safety and compared with applicable theories.

3. Results and Discussion

3.1. Results

From the results of research conducted by the author in carrying out final assignments at PT. Pertamina International (KPI) Refinery Unit VI Balongan, In this observation the author produces a Program, Procedures, as well as Implementation of Promotion and Communication of Safety and Occupational Health at PT. Pertamina International Refinery (KPI) Refinery Unit VI Balongan is an OHS Communication Program such as; HSE Induction, Grand Safety Talk, Safety Walk and Talk (SWAT), Toolbox Meeting, OHS Signs, and Program OHS training, namely implementing a tank module extinguishing simulation in a fire Ground.

3.1.1. Occupational Health and Safety Promotion and Communication Program at PT Pertamina International Refinery Unit VI Balongan

PT Pertamina International Refinery Unit VI Balongan has several programs related to the implementation of Occupational health and safety Promotion and Communication which aim to increase workers' knowledge and attitudes regarding safety and health at work, namely:

1. OHS Communication
   The OHS communication program at PT Pertamina International Refinery (KPI) Refinery Unit VI Balongan, namely:
   a. HSE Induction
      HSSE Induction is carried out to communicate hazards or potential sources of danger and environmental aspects that exist in each job and/or work location so that the HSE Induction participants can understand the environmental aspects that exist in every job and/or work location so that HSE Induction participants can be aware and can take control measures against these hazards. This HSE induction is only done once and is carried out at Least one day before the contractor starts working as a requirement for making an ID card. HSE Induction is carried out at the HSE Induction place in the Demo Room area. The implementation of HSE Induction to workers is carried out by the Human Capital Function by conducting General, Leadership and Job Induction according to their needs.
   b. Grand Safety Talk
      Grand Safety Talk is an activity to convey HSE aspects for Pertamina workers and contractors before starting refinery mechanical activities. This activity is carried out once a week, by presenting the material to be discussed. The Grand Safety Talk is attended by management, Pertamina workers, and contractors implementing the work.
   c. Safety Walk and Talk (SWAT)
      Safety Walk and Talk is a meeting/ meeting attended by management and section head /equivalent to communicate with field workers in the work environment, this activity is carried out 2x every month following the schedule prepared by HSE. Safety Walk and Talk is conducted by HSE and attended by management and section heads/equivalents to carry out two-way communication with field workers and convey aspects of accident prevention, risk control, and safe work practices.
   d. Toolbox Meeting
      This program is carried out every day before starting work and is carried out in the area where the work will be carried out. The Toolbox Meeting is led by the work supervisor and attended by the workers concerned.

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e. OHS Signs
OHS signs are installed in potentially hazardous areas that have been well-socialized and communicated to all workers both in the office and on the assignment. Signs must be understandable, easy to see, and not installed carelessly which will result in workers being in potentially hazardous conditions.

2. Training on the Implementation of Tank Module Extinguishing at the Fire Ground
Training on the implementation of tank module extinguishing at the fire ground is training carried out related to uncontrollable fires and as a firefighting simulation so that the crew is always alert, alert, and does not panic if at any time a real fire occurs. The purpose of this training is to train the emergency response and responsibility of the fireman or fire team This training is carried out unconditionally/scheduled.

3.1.2. Occupational Health and Safety Promotion and Communication Procedures at PT Pertamina International Refinery Unit VI Balongan

As a reference for work units at PT Pertamina International Refinery (KPI) Refinery Unit VI Balongan, this OHS promotion procedure refers to company procedures, namely TKO No. B07-022/KP1149530/2022-S9 Ist Revision concerning Implementation of Safety Communication and TKI No. C07-004/KP1129520/2022- S9 Oth Revision concerning Implementation of Tank Module Extinguishing Simulation at Fire Ground.

1. OHS Communication
   a. HSE Induction
      The following is the HSE Induction procedure:
      1) The work supervisor makes an HSE request memo Induction to the safety -HSE department minimum the day before the contractor starts work.
      2) Safety department – HSE will schedule the implementation of HSE Induction according to the request of the work supervisor and inform the contractor supervisor/supervisor of work.
      3) Contractor supervisors/work supervisors take contractor workers to the HSE Induction area in the Demo Room Unit VI area Balongan according to the schedule determined by the Safety Department – HSE.
      4) Safety section – HSE carries out HSE induction for 2 hours, the contractor worker will sign the letter of ability to implement regulations by safety, health, work, and protection management systems environment and will get an HSE Induction Card after the contractor workers pass the MCU and attach proof BPJS health payments used for care ID Card in security – HSE.
      5) Security department – HSE issues and provides ID cards to contractor workers who have passed the MCU to the supervisor contractor/work supervisor.
      6) Especially for incidental work outside working hours or during the day holiday, contractor supervisor/work supervisor can contact the fire station, emergency & insurance department – HSE to carry out incidental HSE induction in the yard HSE Check Point.

   b. Grand Safety Talk
      The following are the Grand Safety Talk procedures:
      1) Safety Department – HSE created an invitation memo regarding the Grand Safety Talk in accordance with the big agenda of Unit VI Balongan to the work supervisor.

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2) The work supervisor informs the relevant contractor to attend the Grand Safety Talk by the date set by the safety department - HSE.
3) Safety Department – HSE prepares for the implementation of the Grand Safety Talk led by the general manager and management, Pertamina Unit VI Balongan workers and contractors carrying out the work.
4) The General Manager, HSE manager, and related function managers convey safety aspects to all participants Grand Safety Talk and ended by signing the Committing Signing.

c. Safety Walk and Talk (SWAT)
The following is the Safety Walk and Talk procedure:
1) Safety Department – HSE makes a SWAT schedule 2x each month to all levels of management and section heads/ equivalent.
2) Management and section heads/equivalents carry out communication two-way with field workers and convey aspects of accident prevention & risk control/ practice methods work safely and record feedback in the SWAT form then hand back to the HSE function
3) Safety section – HSE issues the results of SWAT implementation through memos to all levels of management and section head/equivalent every month.

d. Toolbox Meetings
The following are the Toolbox Meeting procedures:
1) The work supervisor leads the Toolbox Meeting activities before work begins for contractor workers. Through the Worker Group Meeting of all potential sources of danger, environmental pollution/damage below the worker's job is identified.
2) Contractor workers listen and provide feedback from the delivery that will be delivered by the supervisor work.
3) The work supervisor conveys what activities will be carried out carried out today and what potential dangers will arise, informs how hazard control should be carried out to prevent work accidents, and report Toolbox Meeting activities to the safety department – HSE by attaching the Toolbox Meeting form.
4) Safety Department – HSE receives and recapitulates the results of Toolbox Meeting activities.

e. OHS signs
Following are the procedures for OHS signs:
1) Prepare a plan for the needs and types of OHS signs required.
2) Supervise the installation of OHS signs according to the location and potential dangers that will occur
3) Explain to workers the aims and objectives of OHS signs during HSE induction and other OHS meetings.
4) Record and maintain all signs that have been installed. Evaluate the use of OHS signs in accordance with updates on potential dangers in the field.

2. Training on Implementing Tank Module Extinguishing at the Fire Ground
The following is the procedure for implementing a tank module blackout simulation on fire ground:
a. Preparation
1) Commander (squad leader):

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a) Coordinate with the training department and fire instructor's ground.
b) Prepare a blackout strategy.
c) Plan blackout personnel according to their duties.

2) Fireman:
a) Check the fuel level in the tank and nitrogen gas in the installation main fuel supply (can be read on the manometer).
b) Check and ensure all piping systems are in good condition, OK, no leaks.
c) Make sure the main oil stick is used to dispose of remaining water and oil not full.
d) Close all valves on the tank module line installation.
e) Prepare extinguishing media (water media and foam compound) and equipment that will be used in the outage simulation.
f) Provide an igniter/lighter.
g) Prepare 3 rolls of fire hose Ø2½", 1 roll of hose Ø1½", 1 unit foam indicator, 1 unit of water nozzle and enough foam compound
h) Prepare 1 water hose line, 1 foam hose line and several officers from the training section to help overcome an emergency, such as an uncontrolled fire, accidents, and so on.

b. Implementation
1) The team commander prepares a fire team of at least 5 people which consists of 1 person holding the nozzle (nozzleman), 1 person foam nozzle holder 1 helper and 1 person for operating the inductor.
2) Nozzleman checks that the nozzle is working properly
3) The squad commander takes a position in the middle between the nozzleman, and the helper is behind the nozzleman to adjust the hose
4) Test and ensure all equipment is in good/perfect condition
5) Advance slowly towards the installation in the commander's position team in the middle between the nozzleman and the foam nozzleman as well the helper is behind the nozzleman to adjust the hose. One person stands guard to be ready to put the foam concentrate inside the fire hose line.
6) Carry out according to command orders
7) Use water screens to protect approaching personnel installation and direct the foam spray to the center of the tank until all the foam covers the entire surface of the tank
8) Make sure the fire is extinguished by commanding the team to go upstairs tank and look at the surface of the tank.
9) When the fire is extinguished, stop the foam flow and stop the flow of cooling water.
10) Close the fuel frame on the fuel source installation.

3.1.3. Occupational Health and Safety Promotion and Communication Implementation al PT Pertamina International Refinery Unit VI Balongan

PT Pertamina International Refinery Unit VI Balongan related to Promotion and Communication of Occupational health and safety has been implemented according to procedures, namely:

1. OHS Communication
   a. HSE Induction

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HSE Induction contains information about facilities located in the company arca, evacuation routes, emergency gathering places, procedures when an emergency occurs, and the work to be done. This activity is given to new workers, new contractors, or guests who come to the work site for the first time. Every employee and worker who has received HSE Induction will be given an ID that indicates that the employee or worker has received an HSE Induction.

b. Grand Safety Talk
PT Kilang Pertamina Internasional (KPI) Refinery Unit VI Balongan conducts a Grand Safety Talk once a week with the target of all staff and workers. This discussion includes work programs, PPE checks, submission of potential hazards and readiness of work equipment including the physical condition of workers.

c. Safety Walk and Talk (SWAT)
The Safety Walk and Talk program is carried out every 2x a month according to the schedule made by the ISE function, this program is attended by all levels of management and section heads/ equivalent by carrying out two-way communication with field workers.

d. Toolbox Meeting
The implementation of the Toolbox Mecting is carried out every day before work starts of every time a new type of work and/or a new work location starts. In implementing the Toolbox Meeting program, there are obstacles, namely when workers do overtime work which is usually carried out with a maximum duration of 4 hours and is usually carried out outside of working hours such as work starts from 05.00 p.m. until 06.00 p.m. then breaks and continues at 07.00 p.m. until 10.00 p.m.

e. OHS Signs
OHS signs at PT Kilang Pertamina Internasional (KPI) Refinery Unit VI Balongan have been installed in every dangerous location. In its implementation, OHS signs can be found in almost all places in the work area, and can be seen clearly by workers. The installation of this sign aims to be a reminder to workers or guests who will carry out activities around the work area of PT Kilang Pertamina International (KPI) Refinery Unit VI Balongan.

2. Implementation of Training for Extinguishing Tank Modules at the Fireplace
Training in implementing a simulation of extinguishing a tank module in a fire. The target of this ground is the Fire Team. The fire Team consists of a minimum of 5 people, namely the nozzleman, nozzle holder foam, helper, and officers. Execution time This training is carried out on a conditional/scheduled basis.

3.2. Discussion

3.2.1. Occupational Health and Safety Promotion and Communication Program at PT. Pertamina International RU VI Balongan Refinery.

Based on the research results, it is known that program activities for OHS promotion at PT Kilang Pertamina Internasional (KPI) Refinery Unit VI Balongan have not been fully implemented according to the plan. OHS promotion programs that have not been implemented according to planning namely Toolbox Meeting. Based on the results of observations, in fact, Toolbox Meeting program planning is carried out before carrying out work while carrying it out during overtime work without holding a toolbox meeting first. OHS promotion program which has been implemented according to the plan is HSSE Induction, Grand Safety Talk, Safety Walk and Talk, OHS Signs, and Tank Module Outage Simulation Training.

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The results of the implementation of the OHS promotion program by regulations of government no. 50 of 2012 concerning the implementation of OHS in article 12 paragraph (1) which states "Entrepreneurs in carrying out activities must appoint human resources who have work competencies and create OHS instructions that must be obeyed by all workers/laborers and people other than workers/laborers in the company, and other parties who related as well as must provide assurance that OHS information documented, maintained and communicated to all parties within the company and related parties outside the company" (Peraturan Pemerintah RI, No 50, 2012.)

3.2.2. Occupational Health and Safety Promotion and Communication Procedures at PT. Pertamina International (KPI) Refinery Unit VI Balongan Refinery.

From the results obtained in the program regarding OHS Promotion In this case PT Kilang Pertamina International (KPI) Refinery Unit VI Balongan has procedures by the program implemented it. In company procedures, namely TKO No. B07022/KPI149530/2022-S9 01st Revision concerning Safety Implementation Communication which explains socialization and communication to all workers, new employees, and guests based on ISO 45001 standard 2018 Clause 7.1 (resources, competencies, awareness, and communication of OHS requirements) and are appropriate with government regulation number 50 of 2012 concerning system implementation occupational safety and health management in article 13 paragraph 1 which reads "Information procedures as intended in article 12 paragraph (1) letter d must provide a guarantee that OHS information is communicated to all parties within the company and related parties outside the company" (Peraturan Pemerintah R I No 50, 2012.), and the procedure is by government regulation number 50 2012 regarding the implementation of a safety and health management system work (OHS) in "attachment II regarding implementation assessment guidelines OHS with number 6.4.4 technical standards and guidelines must install OHS signs."

In the procedure, document number and TKI No. C07004/KPI129520/2022-S9 0th Revision concerning Simulation Implementation Extinguishing the Tank Module at the Fire Ground The method is appropriate with law no. 1 of 1970 concerning safety and work chapter V coaching article 9 paragraph 3 which reads "Management is required to organize training for all subordinate workers leadership, in preventing accidents and eradicating fires as well as improving occupational safety and health, also in giving first in an accident" (Undang-undang No 1, 1970.)

3.2.3. Implementation of Health and Safety Promotion and Communication Work at PT. Pertamina International Refinery (KPI) Refinery Unit VI Balongan

Table 1.
Conformity of OHS Communication Program Implementation

No	Program	Basic Reference	Actual Condition	Description
1	OHS Communication which is in the form of HSE Induction, Grand Safety Talk, Safety Walk and Talk, Toolbox Meetings, and OHS signs	PP No. 50 of 2012	No In accordance	PP No. 50 of 2012 article 13 verse 3 explains documentation as well as in II guidelines assessment, implementation of OHS with sign number 6.4.4 OHS signs must be installed by standards and technical guidelines
2	Training Which OHS Form Implementation	UU No. 1 of 1970	in accordance	UU no. 1 in 1970 about work safety chapter V coaching

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No	Program	Basic Reference	Actual Condition	Description
	Simulation Blackout tank module in fire ground			article 9 paragraph 3 administrators are required to organize coaching for all existing workforce under the leader, in the prevention of accident.

Source: Research result, 2023.

Based on Table 1 PT Kilang Pertamina Internasional (KPI) Refinery Unit VI Balongan has implemented a promotion and communication program for occupational safety and health which includes an OHS communication program such as HSE induction, grand safety talk, safety walk and talk, meeting toolbox, OHS signs. Implementation of the OHS communication program is not appropriate because it was related to the Toolbox Meeting program which was not implemented at the time Workers do overtime work with a maximum work duration of 4 hours carried out outside working hours, usually starting at 05.00 - 06.00 p.m. then break first then continuing at 07.00 – 10.00 p.m.

Based on Table 1 PT Kilang Pertamina Internasional (KPI) Refinery Unit VI Balongan has implemented a promotion and communication program for occupational safety and health which includes OHS training programs in the form of Tank Module Extinguishing Training at the Fire Ground. Implementation This training program has been implemented by planning and company procedures

4. Conclusion

From the results that have been obtained regarding the Final Assignment at PT Pertamina Kilang Internasional (KPI) Refinery Unit VI Balongan regarding the Promotion and Communication of Occupational health and safety. the following conclusions can be drawn:

1. The OHS Promotion and Communication Program implemented at PT Pertamina Kilang Internasional (KPI) Refinery Unit VI Balongan is OHS Communication in the form of HSE Induction programs, Grand Safety Talk, Safety Walk, and Talk, Toolbox Meeting, and OHS Signs, and OHS Training in the form of a Tank Module Extinguishing Simulation program at the Fiire Ground
2. The OIIS Promotion and Communication Procedures implemented at PT Pertamina Kilang Internasional (KPI) Refinery Unit VI Ralongan arc TKO No. H07-022/KPI149530-2022-59 Revision-01 concerning the Implementation of Safety Communication and TKI No. C07-004/KP1129520/2022-59 Revision-0 concerning the Implementation of the Tank Module Extinguishing Simulation at the Fire Ground. Implementation of OHS Promotion and
3. Communication of PT Pertamina Kilang Internasional (KPI) Refinery Unit VI Balongan, namely the implementation of the OHS toolbox meeting communication program has not been carried out by company procedures as stated in TKO document No. 807-022/KP1149530/2022-59 Revision To-01 concerning Implementation of Safety Communication and Implementation of the OHS Training program has been carried out by company procedures as stated in TKI document No. C07-004/KPI129520/2022-59 Revision To-0 concerning Implementation of Tank Module Extinguishing Simulation at Fire Ground

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