

เอกสารแนบที่ 17

SHE Management Procedure



บริษัท ขนส่งน้ำมันทางท่อ จำกัด
FUEL PIPELINE TRANSPORTATION LIMITED

CONSTRUCTION SUPERVISION CONSULTANT



CONTRACTOR

TRITON
ENGINEERING AND CONSTRUCTION

REROUTE FUEL PIPELINE TRANSPORTATION PROJECT NO.2

โครงการเปลี่ยนแปลงแนวท่อขนส่งน้ำมันในพื้นที่ทับซ้อนโครงการรถไฟความเร็วสูงเชื่อมโยงภูมิภาค
กรุงเทพ-หนองคาย (RFPT2)

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FOR CONSTRUCTION

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1. INTRODUCTION

Fuel Pipeline Transportation Limited (FPT) operates the multi-products pipelines to transport various grades of fuel products with the same pipeline to customers in Thailand. The throughput volume is obtained from 4 sources as follows:

- Oil refinery of Bangchak Petroleum Public Co., Ltd, from Bangchak.
- Oil depot of Oil and Retail Business Public Company Limited. (PTTOR) from Phrakhanong.
- Oil depot of The Shell Company of Thailand Ltd. from Chongnonsi.
- Oil depot of Chevron (Thailand) Co., Ltd. from Chongnonsi.

The throughput from all 4 sources shall be delivered via underground pipelines laid parallel to the railway tracks to main pumping station at Chongnonsi area, then transported by high-pressure distribution pump at Makasan Control Station to deliver to terminals which consist of aviation fuel depots at Donmuang and Suvarnabhumi Airport, and the ground products depots including Bang Pa-In depot at Ayutthaya Province, Pichit depot at Pichit Province, and Lampang Depot at Lampang Province.

According to the State Railway of Thailand (SRT), there is a cooperation project between the government of the Kingdom of Thailand and the government of the People's Republic of China in the development of high-speed railway system to link the region during Bangkok - Nong Khai (Phase 1, Bangkok - Nakhon Ratchasima). A part of this project, in contracts no. 4-2 and 4-3, the fuel pipeline line was found to be interfered with the foundation of elevated high speed railway system. The fuel pipeline shall demolish and reroute to avoid interference in accordance with international standards and requirements of FPT. The reroute pipeline section will be started from KP.24+821 (Foundation no. 1099, DK.36+873.74) to KP.26+674 (Foundation No.1152, DK38+586.44) approximately 1.8 kilometres in length and described in Figure 1: Pipeline reroute section (Pink color)Figure 1.

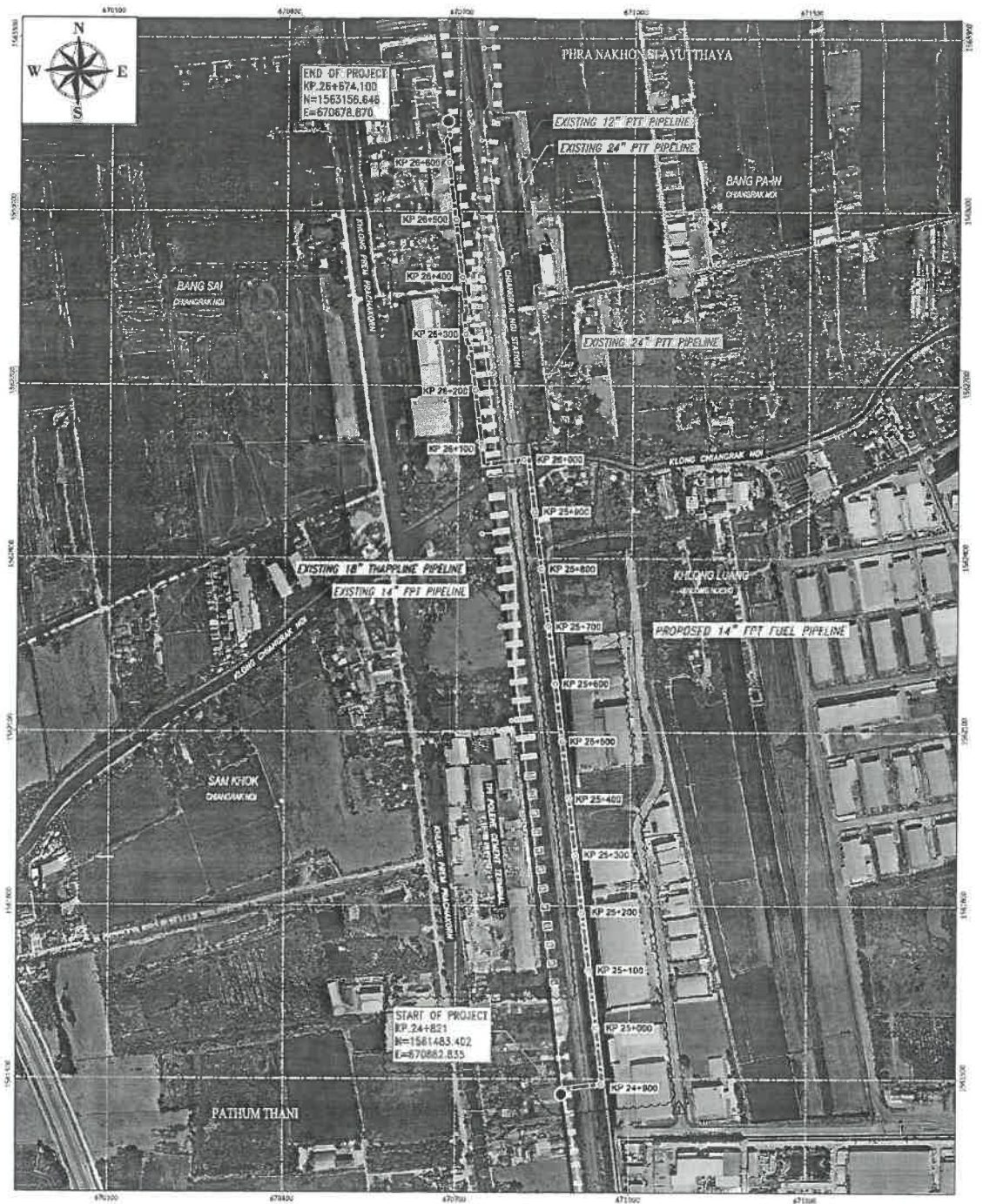


Figure 1: Pipeline reroute section (Pink color)

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2. DEFINITIONS AND ABBREVIATIONS

2.1 DEFINITIONS

Hot Work Use of open flames, other heat sources and/or spark - producing devices where there is a potential for explosion or fire.

Hazardous Material All hazardous chemicals, products, dangerous goods and hazardous wastes. This includes hazardous products such as poisons, corrosive agents, flammable substances, ammunition, explosives, radioactive substances, or any other material that can endanger human, plant or animal life or wellbeing or the environment if handled improperly.

Incident General term of any unexpected events which occurrence that included near miss, human injured, fatal, and property damage, loss to process or environment.

Major Incident A major incident is defined as serious disruption of life, arising with little or no warning, causing or threatening death or injury to numbers of people in excess of those that can be dealt with by the public services operating under normal condition and which require special mobilization and organization of those services.

Critical Incident A "Critical Incident" is any actual or alleged event or situation that creates a significant risk of substantial or serious harm to the physical or mental health, safety or wellbeing of a waiver participant.

Accident Is that occurrence in a sequence of events that produces unintended injury, death or property damage, and loss to process or environmental

Serious Accident Is the accident that cause one or more employee with the potential fatality or has the ability cause serious to harm or incapacitation.

Environmental Accident/Incident causing environmental pollution that is contained within the site or caused from the project construction activities.

Near Miss Is that occurrence in a sequence of events that without any loss. But the potential event may lead to an accident, loss to process or environment.

Injury Is physical harm or damage of the body resulting from an exchange, usually acute, of mechanical, chemical thermal, or other environment energy that exceeds the body tolerance

First-Aid Treatment The following are generally considered "first-aid" treatment (e.g., one-time treatment and subsequent observation of minor injuries) and need not be recorded if the work-related injury does not involve loss of consciousness, restriction of work or motion, or transfer to another job

Medical Treatment Medical treatment includes managing and caring for a patient for the purpose of combating disease or disorder.

Restricted Work Case Any worker returning to work on modified duties following a work related Accident/Incident.

Fatal Accident /Incident: Work related Accident/Incident causing the death of any person associated with the project or a member of the general public.

Lost Time Incident Work related incident causing injury or illness to any person associated

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with the project such that the person is unable to return to work on the next shift or on the next day. Differentiate between direct and indirect employees.

2.2 ABBREVIATIONS

Name	Company
OWNER	Fuel Pipeline Transportation Limited (FPT)
Consultant	Brightstar Asia Ltd.
EPC Contractor	Triton Engineering and Construction Public Co., Ltd
Project	Reroute Fuel Pipeline Transportation Project No.2

3. HSE POLICY, STANDARDS AND PROCEDURE, PROGRAMS AND OBJECTIVES

3.1 HSE POLICY

Health Safety and Environmental is a core value of RPJP1 concept. The Project activities shall comply with RFPT2 HSE Policy as shown below:

RFPT2 HSE Policy: People-oriented, precaution crucial, full responsibility, continuous improvement. Our goal is the elimination of work-related injury and illness to our Workers, contractors, FPT staff, and the general public such that everyone goes back home without harm every day. The Company ensures that management and supervisory personnel have the necessary knowledge and leadership skills to achieve this goal and they are held accountable for health safety and environmental at all times. We undertake to provide all necessary resources and support to achieve our goal. Contractor Policies will be communicated during the site induction and displayed in prominent locations throughout the site for all Workers, contractors & visitors. The following policies will be displayed and implemented for the project (as a minimum):

- Occupational Health & Safety Policy
- Drugs and Alcohol Policy
- Injury Management & Rehabilitation Policy
- Equal opportunity & Bullying Policy
- Environmental policy
- Sustainability Policy
- Learning & Development Policy
- Fatigue Management Policy

The HSE Policy applies to all activities of Contractor in its contract with RPJP1 Project.

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3.2 HSE STANDARDS AND PROCEDURE

The HSE Standards & procedures (which include the safe use of equipment and tools, and also Traffic management procedure) will be developed and submitted to OWNER for review & approval. Contractor will ensure that there are documented controls and procedures for each activity including subcontractor's activities.

3.3 HSE PROGRAMS

Contractor Health Safety and Environmental Programs for the Work will incorporate and comply with Thailand's laws and Contractor Corporate Health Safety and Environmental Management Plan. The Health Safety and Environmental Programs will include:

- The general Health Safety and Environmental practices and procedures to be followed in the construction of the Work

The special Health Safety and Environmental practices and procedures necessitated by conditions specific to the particular Work or particular portions of the Work.

- All Health Safety and Environmental procedures, rules, processes and directives will be based on Thailand's Health Safety and Environmental laws, International Health Safety and Environmental laws and standards at a minimum, but may exceed those standards at the direction of OWNER or its designated representative in cases where it is deemed necessary due to either substandard performance on the part of the Contractor, or the worksite conditions change, or as deemed necessary by the OWNER.

Contractor Health Safety and Environmental officer shall ensure that Contractor Health Safety and Environmental programs are implemented and maintained at each Site where the Work is performed.

3.3.1 Responsibilities to HSE Program

Contractor will comply with all National, Regional, District and local laws, regulations, policies, directives and guidelines, and will be aware of, and will incorporate into their Health Safety and Environmental Practices, any changes or amendments that may affect the Work.

Contractor shall actively promote safe work practices, and constantly relay information to his workers regarding Health Safety and Environmental principles. It is expected that Contractor and Subcontractor possesses and enforces his own corporate Health Safety and Environmental Management Plan. It is Contractor's responsibility to ensure his workers and Subcontractor workers are aware and knowledgeable of and practice Contractor Health Safety and Environmental procedures.

Contractor will develop and implement pre-employment screening for all Contractor and subcontractor personnel. The pre-employment medical screening program will provide for a recognized physician to declare an individual fit or not fit for work, based upon the demands of the

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position and the anticipated health risks inherent in the work. The screening will be sufficiently extensive to include screening of those personnel designated for potential respirator use and to determine pre-existing medical conditions.

The screening program will be submitted to OWNER/Consultant for review and approval prior to implementation.

Contractor will use standard forms, acceptable to the OWNER's representative to audit, log, convey or otherwise transmit data relevant to the Contractor's Health Safety and Environmental program.

3.3.2 Targets

Once accepted by OWNER/Consultant, the specific Health Safety and Environmental objectives and targets to be used for the project will be included in Contractor's final Health Safety and Environmental Management Plan. It is expected that targets for Health Safety and Environmental performance will reflect the following range of metrics:

- Planned and actual number of Health Safety and Environmental orientation sessions held.
- Percent of personnel receiving Health Safety and Environmental training prior to work.
- Number of weekly staff Health Safety and Environmental meetings.
- Number of job Health Safety and Environmental analyses (JSEAs) performed.
- Number of inspections.
- Inspection action item close-out.
- Issuance of Health Safety and Environmental Action Item Register (weekly/monthly).
- Planned and actual Health Safety and Environmental Action Item close-out.
- Number of toolbox meetings held.
- Number of Health Safety and Environmental observations recorded.
- Number of dangerous occurrences reported.
- Number of lost time recordable and first-aid injuries.
- Frequency of injuries.
- Frequency and scale of chemical and fuel spills.
- Number of near misses.
- Number and extent of property damage.
- Number of community and landowner complaints.
- Number and effectiveness of Health Safety and Environmental drills conducted.

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3.4 HSE OBJECTIVES

Contractor and all subcontractors are committed to achieve the HSE strategic objective of no accidents, no harm to people and no damage to the environment, in addition, which are comply with OWNER's KPI in the project as following:

- Strive to eliminate occupational injuries and illnesses.
- Promote Health Safety and Environmental objectives as constant value in designing, planning, training, and executing the work.
- Spread ownership for Health Safety and Environmental program effectiveness throughout the project works.

Enhance employee awareness and involvement in our Health Safety and Environmental program implementation.

- Increase employee's consistent use of Health Safety and Environmental practices in their daily work activities.
- Optimize the use of continuous improvement practices as the basis for good performance.
- Zero (0) Fatalities.

3.5 KEY PERFORMANCE INDICATOR (KPI)

KPI	Target
Away from Work Case Rate (AWCR)	< 0.08
Total Lost Days Severity Rate (TLDSR)	< 0.50
Vehicle Incident Frequency Rate (VIFR)	< 0.40
Total Recordable Case Rate (TRCR)	< 0.22

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Away from Work Case Rate (AWCR)

The AWCRT rate is relatively new to industry. This rate is calculated by adding up the number of incidents that had one or more Lost Days, one or more Restricted Days or that resulted in an employee transferring to a different job within the company, and multiplying that number by 200,000, then dividing that number by the number of employee labor hours at the company.

$$\text{AWCR Rate} = \frac{\text{Total Number of AWC incidents} \times 200,000}{\text{Number of Employee Labour Hours Worked}}$$

Total Lost Days Severity Rate (TLDSR)

The Total Lost Days Severity Rate is a similar calculation, only it uses the number of cases that contained lost work days. The calculation is made by multiplying the number of incidents that were lost time cases by 200,000 and then dividing that by the employee labor hours at the company.

$$\text{TLDSR Rate} = \frac{\text{Total Number of lost work day's incidents} \times 200,000}{\text{Number of Employee Labour Hours Worked}}$$

Vehicle Incident Frequency Rate (VIFR)

The Vehicle Incident Frequency Rate is a similar calculation, only it uses the number of cases that contained vehicle incident. The calculation is made by multiplying the number of incidents that were vehicle incident cases by 200,000 and then dividing that by the employee labor hours at the company.

$$\text{VIFR Rate} = \frac{\text{Number of vehicle incidents} \times 200,000}{\text{Number of Employee Labor Hours Worked}}$$

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Total Recordable Case Rate (TRCR)

The Total Recordable Case Rate is calculated by multiplying the number of recordable cases by 200,000, and then dividing that number by the number of labor hours at the company.

Add these incidents shall be recordable case as following:

- 1) Fatality
- 2) Days away from work
- 3) Restricted work or transfer to another job
- 4) Medical treatment beyond first aid
- 5) Loss of consciousness
- 6) A significant injury or illness diagnosed by a physician

$$\text{TRCR Rate} = \frac{\text{Number of recordable cases} \times 200,000}{\text{Number of Employee Labour Hours Worked}}$$

4. HEALTH SAFETY AND ENVIRONMENTAL MANUAL

Health Safety and Environmental Manual describes the Health Safety and Environmental requirements for all phases and operations of the Work, and addressing the following activities at a minimum as well as others that may be applicable, prudent, necessary, required:

- Emergency procedures.
- Lifesaving procedures and appliances.
- Blasting.
- Firefighting equipment.
- Evacuation drills.
- Inspection and operation of lifting equipment.
- Health safety and Environmental training and briefings.
- Storage and transport of volatile or dangerous materials.
- Procedures for handling radioactive materials/sources.
- General safety requirements for site personnel.
- Personal Protective Equipment.
- Personnel qualification requirements.
- Safety operating procedures and PTW procedures.

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- High voltage/Power line procedures.
- Excavation Permit procedures.
- Noise pollution control procedures.
- Contingency plans for personnel incidents.
- Medical Aid procedures.
- Vehicles and heavy equipment and driving procedures.
- Communications and Emergency contact list.
- Security requirements.
- Drug and alcohol policy.
- Work site smoking policy.
- Incident/Accident reporting procedures.

Environmental Management Plan, describing Contractor's environmental management system and manual-policies, standards and procedures, and programs.

5. RISK ASSEGMENT AND MANAGEMENT

For all activities associated with the Project, Contractor shall implement a comprehensive risk management process, which will emphasize prevention as the best means of controlling all risks to people, assets, and the environment, and ensure that all risks associated with activities and places of work will be identified and assessed, and that appropriate measures are applied to control and reduce these risks to acceptable levels. Contractor shall also ensure that all personnel are informed about the risks connected to their activities and planned preventative measures.

5.1 RISK MANAGEMENT DURING DESIGN

Contractor shall perform a detailed HAZOP to identify and document potential personnel and environmental hazards, as well as safety-related operability problems that might exist in the process. In addition, a review will be made to ensure that all identified safety hazards have been adequately identified and risks to people and the environment reduced to as low as reasonably practicable.

Contractor is to ensure that all risks associated with activities and places of work will be identified and assessed, and that appropriate measures are applied to control and reduce these risks to acceptable levels.

Contractor will also ensure that all personnel are informed about the risks connected to their activities and planned preventative measures.

The risk management will include:

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- Development of a list of all work activities that will be used as a basis to determine the scope of reviews.
- Development of a list of the HSE hazards of each identified activity.
- The assessment of the risk associated with each type of work by applying a Risk Assessment Matrix (RAM).
- A description of how each hazard will be controlled and will indicate the need for specific Job Safety and Environmental Analysis (JSEA) when the normal procedures and controls are expected to be inadequate.
- Implementation of risk reduction measures to control or mitigate the hazard and its effects.
- Planning for recovery in the event of a loss of control leading to an unacceptable effect.
- Fire and Blast Protection Design Criteria.
- Fire Proofing Design Criteria.
- Emergency Shower and Eyewash Facilities.
- Fire and Gas Detection.
- Site Layout and Equipment Arrangement.
- Escape, Evacuation and Emergency Response.
- Emergency Systems, including emergency shutdown (ESD) and emergency power

Contractor will be expected to conduct the following engineering HSE activities to identify, manage, and record HSE hazards and risks during the final engineering phase. This work is a supplement and follow-on to earlier HAZOPS activities performed during the FEED phase.

5.2 RISK MANAGEMENT DURING CONSTRUCTION

Contractor shall perform risk assessments in accordance with international industry practice regarding hazard identification and job hazard or Job Safety and Environmental Analysis guidance and procedures. A Project Job Safety and Environmental Analysis (JSEA) procedure shall be incorporated by reference into OPENE's HSE management plan. Hazards in various construction activities will be assessed in terms of their severity and probability, and the application of appropriate controls for the work. JSEA will encompass environmental as well as safety and health risks. It is intended that field supervision will carry out these risk assessments at the level closest to the work interface. It is expected that the full workforce will be engaged in the JSEA process, either as participants in the JSEA development or in receiving briefings on JSEA determinations relevant to the tasks they are to perform.

It is also expected that the JSEA process will apply to standard repetitive operations such as pipe stringing, bending, and welding operations, taking into consideration specific operating conditions. The process will also be used for specific stand-alone activities such as complex rigging, heavy lifts, special set-up circumstances, permit to work situations, and activities with perceived high risk.

Specific jobs or operations for which JSEA are required are:

- New jobs or tasks that present unspecified or unknown hazards.
- Jobs or tasks involving new equipment, machinery, or procedures.
- Major Job categories that will be repeated frequently.

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- Jobs or tasks that have historically experienced a repeated or significant rate of accidents, injuries, exposures, or near misses (e.g. road transport of personnel, materials, and heavy equipment).
- Jobs involving environmental remediation of hazardous wastes.
- Jobs or tasks that, in the professional judgment of the responsible HSE Manager require a formal JSEA.
- High-pressure hydrostatic tests.
- Heavy rigging operations (Category A lifts).
- Chemical cleaning operations.
- Deep Excavations.
- Work requiring airline respirators or SCBA.
- Confined space.
- Working near electrical hazards.
- Working near foreign pipelines.
- Working near OWNER strict hazard area under controlling of OWNER Fuel Separation Plant.
- Working nearby Highway.
- Working under/near high voltage power line.
- Others.

JSEA shall be attached to the procedure for OWNER/Consultant review and approval. The purpose of the JSEA is to assess each construction activity's impact on the health and safety of the employees, and the potential impact to the public, in order to ensure adequate mitigating measures are developed and implemented, and appropriate Personal Protective Equipment (PPE) identified for the workforce's daily protection.

5.3 HAZARD IDENTIFICATION (HAZID) STUDIES

A high-level HAZID will be conducted at the outset of final engineering, to identify and rank potential HSE hazards to the public, operating personnel, the environment, or property associated with all aspects of facility design, construction, and operations. This is expected to be a facilitated workshop meeting attended by key leaders representing the range of project disciplines and functions. The hazards identified by the HAZID will be listed along with the prevention, control and mitigation methods in a project HSE Risk Register. Action items required to mitigate these hazards and reduce the risk of them to as low as reasonably practicable will be recorded in the Action Tracking Register. The format of the Action Tracking Register is to be proposed by Contractor and approved by OWNER.

A report will be issued, as a result of the HAZID that describes the activity, participants, and methodology used. Action item sheets will be issued to the responsible disciplines for completion. Contractor will maintain the Action Tracking Register and ensure input into the P&IDs and HSE Hazard and Risk Register.

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6. GENERAL HSE COMPLIANCES

6.1 HOUSEKEEPING

Access and egress to all exits, fire and safety equipment, and work areas must be kept clear of obstructions at all times. Special attention must be given to maintaining clear walkways, removal of trash, removal of slipping and tripping hazards, and proper storage of materials. Oily or chemical soaked rags must be regularly disposed of in an approved manger.

6.2 VISUAL MANAGEMENT

Visual management is the process of displaying critical information to normalize the safety management on the site. Contractor and his subcontractors shall carry out the visual management on site, which includes personnel visual management, Equipment, Facilities and tools visual management and construction site visual management.

PERSONNEL VISUAL MANAGEMENT

Personnel visual management shall include but not limited to the following:

- PPE (Safety Helmet, Safety Shoes, Working Clothes, Safety Glasses, etc.).
- Employee ID card with valid date.
- Visitor Card.

Equipment, Facilities and tools visual management

Equipment, facilities and tools visual management shall include but not limited to the following:

- All tools and equipment being used in OWNER ROW shall be inspected by OWNER as per required.
- Equipment, Facilities and Tools Inspection Sticker.
- Facilities and Tools Usage Condition Sticker.
- Safety Barrier for Area Separation.
- Safety Barrier for Transformer Box.
- Warning Signs for Area Separation.
- Electric Poles Protection.

Construction site visual management

Construction site visual management shall include but not limited to the following:

- Site Signboard.
- Parking Area.
- Mobile Toilet for Construction Site.
- Waste Segregation and Collection on Construction Site.
- Hazardous Materials Handling.
- Traffic Sign and traffic management system for Construction near the Road.

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- Muster Point.
- Designed smoking area.
- Lighting system at the night time

6.3 ALCOHOL, DRUG AND SUBSTANCES ABUSE

Drugs and alcohol policy

Contractor and subcontractors or visitors must be free from the effects of medication, drugs, alcohol, natural stimulants, natural sedatives or other similar intoxicating substances, other than for bona fide medical reasons during work period, mid-day breaks and while travelling to and from worksites. Any discovery/incident involving illicit drugs or controlled substances and alcohol shall be brought to the attention of the appropriate law enforcement agencies and the person shall be immediately removed from the work site.

Employee or visitor must notify their supervisor or the safety of a prescription drugs being use under the direction of a physician. It can then be determined if that employee can drive or carry on workrelated duties safely during such time as he/she is required to take the prescribed medication.

Smoking policy

Smoking is allowed only in designated smoking areas at both office and construction sites. The smoking areas shall be equipped with smoking area signs, fire extinguisher and tray (sand/water) for cigarette butts. Good housekeeping at smoking areas shall be performed.

Contractor and subcontractors shall note that smoking will not be permitted:

- In the proximity of hydrocarbon handling areas.
- Areas exposed to any flammable liquid or gas releases.
- Designated "No Smoking Areas".

6.4 HEALTH REQUIREMENTS

General

Contractor and subcontractors shall ensure that medical fitness of the personnel employed on the project are assessed prior to arrival on sites and passed as fit to perform their tasks.

Medical program

Contractor and subcontractors shall develop a medical program and provide first aid, nurse, medical and occupational health facilities for personnel working at pipeline construction sites.

Contractor shall provide rapid first aid and trauma response at the casualty location followed by transportation of the casualty to well-equipped dedicated medical facilities for specialist medical care.

To achieve this objective, the Contractor following medical items shall be provided:

- Provisions for addressing all health risks identification.
- Specification.
- Basic onsite medical treatment.
- Protocols for treating immediate emergencies and life-threatening emergencies.

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- Transportation of injured personnel to suitable medical facilities.
- Management of tropical diseases and epidemics.
- Provide basic first-aid training to all appropriate employees.
- Provide specific first aid training for part of personnel to achieve a certain proportion of first aiders.
- Set the office location near the hospital and sign contract with the hospital for medical treatment.
- Organize and conduct regular emergency response drills.
- Set vehicle for the use of an emergency.
- Manage tropical diseases and epidemics.

6.5 HAZARDOUS MATERIALS

Contractor will develop and implement a hazardous material management scheme base on the construction. The plans will identify all categories of hazardous materials and wastes to be utilized or generated by the project, provide anticipated quantities, and describe management controls and disposal.

The hazardous materials handling detail shall be referred in The Hazardous Materials Handling Procedure further.

6.6 TRANSPORTATION AND VEHICLE MANAGEMENT

Contractor shall develop and implement management systems and procedures to provide highest level of control over the risks that both on and off-road vehicle transportation will present. The management system can manage and minimize potential health and safety risks posed by traffic to contractor's employee, its subcontract and other persons while construction or activity is occurring on, or adjacent to, roads.

The procedure applies all parts of the activities identifies the control and operation of traffic and driving management for all construction sites and public roads associated with the project.

The traffic management plans and control detail shall be referred in The Traffic Management Plans and Controls Procedure further.

6.7 PERSONAL PROTECTIVE EQUIPMENT

All personnel working on, visiting or inspecting any part of the work shall be provided with and be required to wear appropriate PPE. Contractor and subcontractors shall provide essential PPE including working clothes, safety helmets and safety shoes. Other PPE shall be provided depending on the work risk requirements. Contractor shall provide PPE for OWNER/Consultant.

Contractor and subcontractors shall ensure that all necessary training about the use of PPE will be provided to all new employees before they enter the work site.

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The personal protective equipment detail shall be referred in Personal Protective Equipment procedure further.

Heavy equipment and machinery

Contractor and subcontractors shall be responsible for ensuring that all heavy equipment and machinery used for the work is in a good and safe operating condition. Contractor and subcontractors shall document inspections of the equipment in compliance with relevant Thai legislations. All equipment and machinery must be transported in a safe manner and at a minimum must utilize an approved system of flag persons and pilot vehicles. All of the Heavy Equipment and Machineries shall be as per manufacture requirement or checked in accordance with the laws. Any break or malfunction must be fixed immediately and not be allowed to work until the reparation finished.

Thai laws and regulations, EIA and OWNER's requirements shall be followed and the inspection result shall be documented.

Crane and Lifting equipment/devices

Contractor and subcontractors shall be responsible for ensuring that only a competent, qualified worker operates any lifting device and that a signal man is designated to signal the operator, as necessary, to properly place and control the loads. All lifting equipment will be load tested and documented prior to use on the project. All rigging equipment shall be inspected by a competent person at least once a quarter and daily by operator with identify/color code or any inspected sign.

Color coding system and inspection sticker shall be applied in the RFPT2 Project.

Electrical tools and equipment

The safe design capacity of any electric tool must not be exceeded. Electrical tools and equipment must not be modified in any manner that reduces the original safety factor or capacity.

Any electrical tool should be checked periodically. Any mistake or destroy should be reported.

Protective guards shall be in place at all times on all power tools. Cords must be in good condition. All damaged cords, plugs or switches must be and repaired immediately by a qualified electrician or removed from the Site.

Electrical tools will be daily inspected by user before start work, if any damaged, broken, deformed condition was found, the HSE personnel will instructed to user to take them out of point of operation in order to repair or replace.

6.8 RADIOGRAPHY

Any construction activities relating to radiation, Contractor and subcontractors shall strictly follow relevant legal requirements as follow:

- Only qualified personnel are employed to use radiographic equipment.

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- Supply a copy of their current, valid license and have it on their person during work.
- Adequate signage, protective equipment and restrictive barriers to prevent other workers from entering the areas where a hazard exists shall be provided and used at the Site.

Contractor shall ensure that all radioactive materials will be adequately labeled and isolated from people, livestock and wildlife, and from materials that could transport radioactivity to people and natural habitats. Audible and visible warnings shall be used during the use of radioactive materials.

100% of mainline welds shall be radiographed using an internal X-ray, the use of gamma ray shall be not permitted, unless approved by OWER/Consultant.

Radioactive materials will not be disposed of on the construction site but will be removed in protective containers and disposed at government approved storage and disposal locations.

Contractor must be vigilant for evidence of unsafe use, exposure, or injury from X-rays.

6.9 CONFINED SPACE ENTRY

Contractor shall develop and implement a procedure for confined space entry in accordance with national and local laws and regulation, ordinances, standards, codes and specifications

Pipeline entry shall be strictly prohibited by RPJP1 regulation, and is grounds for dismissal. Before issuing a Permit to Work to carry out any work within a confined space, hazards evaluations well as appropriated control measures shall be taken.

All Contractor and subcontractor's employees are required to follow the confined space entry procedure and work practices established by the work. Only qualified personnel will enter a confined space to conduct work.

Confined space entry system detail shall be referred in Confined Space Entry Procedure further.

6.10 WORK NEAR HIGH VOLTAGE POWER LINE

Prior to initiating any work at the site near high voltage power line, Contractor and subcontractors shall apply the PTW and comply with the requirement strictly. Warning signage displayed and installed guards at all overhead power line locations shall be identified in accordance with the responsible utility and following:

- Review drawings, highlighting all overhead power lines and confirm their existence by traveling the route and noting the actual location of the overhead power line
- All overhead power lines will be identified with a highly visible sign about height limit.
- All signs and guards will be installed before the work commences, and will be maintained throughout the course of construction and will not be removed until construction is complete.

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- All the personnel operating designated equipment on the ROW, who will be crossing under or working near overhead power lines, will be in possession of EGAT/PEA permit.
- Tower footings may require fencing to avoid encroachment of equipment.
- No part of any lifting device or other equipment being operated around overhead power lines will be closer than the greater of the distances listed below or any existing legislation.

Line Voltage	Minimum Distance (Meters)
150-750 volts	2.0
750-50,000 volts	3.0
50,000-115,000 volts	4.6
115,000-230,000 volts	6.1
Over 230,000 volts	9.0

The above clearances apply in all directions, vertical or horizontal. When crossing under any overhead power lines, a designated signal will be used, if it is necessary to work closer than minimum distances specified, Authorization will be obtained from the responsible authorities and Owner. If the emergency is the result of a broken power line or electric cable, call local Electricity Authority first.

The Authority will initiate the emergency response and take charge.

6.11 WORK OVER WATER OR NEAR WATER

Contractor and subcontractors shall conduct risk assessment and prepare work method statements in advance of any work over water, to ensure that all associated risks are identified and appropriate control measures determined. Soil erosion and stock soil near water shall be avoided. All hydraulic, lubrication, and fuel hoses will be held in dip tray, free from abrasion and unions tight and free from leaks. Maintenance procedures for all vessels and pipe laying equipment will address refueling, hydraulic oil, and lubricating oil change and provide methods to prevent marine pollution.

6.12 WORK ON HOT WEATHER

When working on hot weather, Contractor and subcontractors shall conduct the following measures:

- Provide more frequent rest breaks and introduce shading to rest areas.
- Provide free access to cool drinking water and ice.
- Introduce shading in areas where individuals are working

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- Encourage the removal of personal protective equipment when resting to help encourage heat loss in safety area.
- Educate worker training in the hazards, health effects and prevention of heat related illness.
- Always provide first aid kit on site.

6.13 LOCKOUT & TAGOUT

Lockout & Tag out procedure is a means of energy isolation technical/electrical to ensure safety of persons who are in the site of electric and physical equipment. The employee shall provide training to ensure that the purpose and function of the energy control program are understood by employees. The training shall include the following:

- Each authorized employee shall receive training in the recognition of applicable hazardous energy spaces, the type of energy available in the workplace, and the methods and means necessary for energy isolation and control.
- Each authorized employee shall be interacted in the purpose and use of the energy control procedure.
- Tag are essentially warning devices affixed to energy isolating devices and do not provide the physical restraint on those devices that is provided by a lock when a tag is attached to an energy isolating means, it is not to be removed without authorization of the authorized person for it, and it is never to be bypassed, ignored, or otherwise defeated.

Lockout & Tag out system detail shall be referred in Lockout & Tag out procedure further.

7. SUBCONTRACTORS MANAGEMENT

All Contractor Subcontractors shall comply with project HSE requirements and procedures as basic requirements.

Contractor shall ensure that each subcontractor adopts RFPT2's HSE-MS which shall be the same or similar standard with the OWNER/Consultant. Contractor shall assume responsibility for its subcontractors and vendors operations and shall:

- Implement procedures and compliance with Thai laws, OWNER specifications, RFPT2's HSE procedures and regulations.
- Take direct responsibility of HSE matters and exercise formal HSE control of subcontractor's workforces.
- Ensure that subcontractors are properly behaved and managed, so that no disturbances are caused to local residents, their properties or public facilities.

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- Implement arrangements for control of risk and monitoring subcontractors HSE performances at acceptable levels.
- Daily Safety Tool Box Talk Meeting (TBM)

Daily 10-15 minute meeting shall be conducted before commencing daily work by job Subcontractor's supervision to announce and emphasize safety and health procedures of relevant to the nature and location of work taking place on that day. Physical exercises can be performed for warming up.

Supervisor talks to ensure that personnel involved are fully aware of all limitations and restrictions, safety requirements, and job execution details. All members can have warming up for a moment and let them go with safety slogans at the end of Toolbox Talks Meeting.

8. EMERGENCY PREPAREDNESS AND RESPONSE

Emergency Preparedness and Response Plans will be based upon a proper and comprehensive assessment of risk considering:

- Project location
- Known or potential threats
- Climatic conditions
- Geology (earthquake, flood, landslide, etc. potential)
- Endemic health risks
- Risks from neighboring facilities
- Construction risks may include
- Work at height
- Fire and explosion
- Toxic and flammable gas release
- Working over or adjacent to water
- Working beside or on roads or railways
- Collapse of structures
- Serious site transport incidents
- Major utility outage
- Adverse weather
- Unexploded ordinance
- Environmental emergencies
- Missing persons

This Emergency Preparedness and Response Plan shall be posted in the workplace and must address the following as minimum:

- Command and control organization.
- Safe shutdown of all Work activities.
- Detailed instructions for notification of the proper authorities (including phone numbers, etc.)

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- Gathering points for evacuation.
- 24-hour communication link for emergency purposes.
- Listing of the individuals responsible to organize and control the emergency conditions.
- Communication plan to ensure all the Site personnel are aware of their correct response to an emergency.
- Location of available equipment and support services including local, regional, and national agencies for onshore and offshore emergency situations.
- Emergency Evacuation Plan.
- Spill Response Plan.
- Emergency personnel.
- Client and mutual aid assistance.
- Training requirements and drills.
- Properly equipped ambulances.
- Emergency checklist.

All incident shall be informed OWNER/Consultant immediately.

9. INCIDENT NOTIFICATIONS, INVESTIGATION AND REPORTING

Contractor and subcontractors shall ensure that occupational injuries, illnesses, accidents, near misses and hazards are reported, investigated and documented.

All incident shall be informed OWNER/Consultant immediately.

Contractor and subcontractors shall provide assistance that the investigators would require in the case that OWNER/Consultant and the Contractor may jointly investigate incidents depending on their severities.