



RESUME

Sakarin Waiyakul

**Lead Piping Engineer &
Senior Project & Construction
Engineer**

Senior Professional Engineer

License No **กท.1041**

CONTACT ADDRESSES

151/190 Country Home II Village, Surasak Sub-District, Sriracha District,

Chonburi Province 20110

E-mail: swaiyakul@yahoo.com

Mobile: [089-983-6757](tel:089-983-6757)

SUMMARY OF EXPERIENCE

More than 16 years' experience in engineering, design and construction both offshore/onshore oil & gas petrochemical facilities. Technical support on construction site. Prepared design in accordance with the applicable provisions of international code such as ASME, API, ASTM, NFPA Clients' specifications and standard. Project contract specifications. Prepare ITB for New project. TBE and RFQ for piping materials. Pipe Stress Analysis for critical lines, project control and Construction Management of Multi Disciplines.

PERSONAL INFORMATION

Date of Birth: Feb 19, 1979

Sex: Male

Age: 41

Height: 171 Cm

Weight: 72 Kg

Nationality: Thai

Marital Status: Single

Religion: Buddhism

EDUCATION

King Mongkut's Institute of Technology Ladkrabang.

Tha-Luang Technical College.

QUALIFICATION

Master Degree of Engineering, Major Mechanical GPA. [3.68/4](#)

Bachelor Degree of Engineering, Major Mechanical GPA. [3.06/4](#)

High Certificate of Vocational Education in Production Technique GPA. [3.88/4](#)

EMPLOYMENT

July 20- Present	GC Maintenance and Engineering Company Limited
July 19- June 20	Freelance Engineer (Self-Employed)
Feb 12 – Jun 19	Rayong Engineering & Plant Service (SCG Chemicals)
Apr 06 – Feb 12	Foster Wheeler International Corporation (Thailand Branch)
July 05 – Apr 06	Technip Engineering (Thailand) Ltd.
Apr 04 – Jun 05	Celestica (Thailand) Limited

WORK EXPERIENCE

Experience with GC Maintenance and Engineering Company Limited

July 20- Present

BEAM PUMP INSTALLATION AT 'LKU-A04T'

BEAM PUMP INSTALLATION AT 'LKU-D21T'

BEAM PUMP INSTALLATION AT 'LKU-T07T'

BEAM PUMP INSTALLATION AT 'LKU-X05T'

BEAM PUMP INSTALLATION AT 'LKU-ZA14T'

BEAM PUMP INSTALLATION AT 'LKU-ZA47T'

BEAM PUMP INSTALLATION AT 'NPG-A14T, NPG-A15T, NPG-A16T & NPG-A17T'

BEAM PUMP INSTALLATION AT 'PTO-D13T'

BEAM PUMP INSTALLATION AT 'STN-A12T'

BEAM PUMP INSTALLATION AT 'TRT-A02T'

BEAM PUMP INSTALLATION AT 'LKU-Q10T'

ESP INSTALLATION AT 'LKU-CB07T'

ESP INSTALLATION AT 'LKU-V11T'

ESP INSTALLATION AT LKU-G02T'

SURFACE FACILITIES REQUIREMENT FOR 'STN-A27T21T25T26T22T23TAAKAASAAD

SURFACE FACILITIES REQUIREMENT FOR WATER INJECTION AT 'TRT-AJ'

SURFACE FACILITIES REQUIREMENT FOR WELL CONVERSION AT 'LKU-R26T'

SURFACE FACILITIES REQUIREMENT FOR WELL CONVERSION AT 'LKU-ZD35T'

SURFACE FACILITIES REQUIREMENT FOR WELL CONVERSION AT 'NTM-A11T

SURFACE FACILITIES REQUIREMENT FOR'LKU-Z56T55T57T58T59T60T62T

Client: PTT Exploration and Production Public Company Limited

Senior Piping Engineer

Responsibilities:

Review Package Drawings from Contractor such as

- Piping GA Key Plan
- Piping General Arrangement Drawings
- Pipe Support Type Checking
- Tie-in Lists
- Piping Bill of Materials
- Prepare Preliminary for Piping Designer
- Check Piping Details Design from Piping Designer
- Pipe Stress Analysis to inform load for civil discipline
- TBE for Piping Bulk Materials
- Piping Datasheets for Specials Piping Items
- 3D Model Review with Owner
- Technical Support for all Piping Technical Issue
- Piping Estimation for New Project
- Site Survey to Check Existing Site Condition for Piping Design

July 19 – June 20 **Freelance Engineer (Self-Employed)**

Lead Piping Engineer

Scope of Services: Performing of Piping Engineering Detail Design & Calculation to meet clients' budget, quality and schedule such as.

- Plot Plan Development & Drawings
- Piping General Arrangement Drawings
- Piping Isometric Drawings
- Piping Bill of Materials
- Piping As-Built Drawings
- Piping 3D Modelling
- Pipe Stress Analysis
- Pipe Support Drawings
- Piping Datasheets for Special Piping Items
- Piping Technical Bid Evaluation
- Piping Estimation
- Piping Technical Consultant

Experience with Rayong Engineering & Plant Service (REPCO) SCG Chemicals Group

Jan 19 – Jun 19 TPE_Bagging_BG Line2 Replacement

Client: Thai Polyethylene Co., Ltd.

Jan 19 – Jun 19 TPE_Control Room Pressurization for PP1&2 CCR

Client: Thai Polyethylene Co., Ltd.

Jan 19 – Jun 19 TPE_LL concrete pipe rack repair

Client: Thai Polyethylene Co., Ltd.

Jan 19 – Jun 19 TPE_R-1 Catalyst Building Compliance

Client: Thai Polyethylene Co., Ltd.

Jan 19 – Jun 19 TPE_HD1 Install SOV for ESD upgrade

Client: Thai Polyethylene Co., Ltd.

Senior Construction Engineer

Responsibilities:

- Day to day Coordinating and supervising all construction activities.

- Problem solving site issues and minimizing associated construction delays
- Administer subcontracts and Purchase Orders through daily communication with subcontractors, suppliers
- Ensuring quality and accuracy of work performed/deliverable
- Communications with design leads and senior management
- Ensuring project deliverables adhere to the drawings and specifications
- Maintaining documentation as per site specific system
- Maintaining construction schedule of project.
- Tracking costs associated with the work, review with project budget.
- Maintaining site security.
- Follow up with internal/external clients directly on results and to discuss timelines, schedule and budgets (ie: Project Manager and Project Coordinator).
- Communication with Contract Administrator or client's representative.
- Actively engaging people in daily kick off meeting, HSE meetings, responsible for a weekly inspections on site and to make sure people are reporting learnings.
- Teamwork and Collaboration.

Aug 18 – Dec 18 **RPL_Install Fire Water Pipeline**

Client: **Rayong Pipeline Co.,Ltd**

Nov 17 – Aug 18 **RTC_BCM Naphtha and Pygas Pipeline**

Client: **Rayong Terminal Co.,Ltd**

Oct 17 - Nov 17 **MOC_TK1010AB VOCs treatment**

Client: **Mabtaphut Olefin Co.,Ltd**

July 17 – Sep 17 **MOC_GHU-I R-800B**

	Client: Mabtaphut Olefin Co.,Ltd
April 17 – June 17	TPE_SMX
	Client: Thai Polyethylene Co., Ltd.
Jan 17 – Mar 17	ROC_Clarifier modification
	Client: Rayong Olefin Co.,Ltd
Oct 16 – Dec 16	MOC_WWT change material line sludge system
	Client: Mabtaphut Olefin Co.,Ltd
Aug 16 – Sep 16	TPE_R-1 Hexane distillation
	Client: Thai Polyethylene Co., Ltd.
May 16 – July 16	ROC_Direct toluene to truck load
	Client: Rayong Olefin Co.,Ltd
May 16 – July 16	TPC_Install VCM column feed preheater
	Client: Thai Plastic and Chemicals Public Company Limited
May 16 – July 16	TPC_Install VCM stripper side reboiler
	Client: Thai Plastic and Chemicals Public Company Limited
Mar 16 – April 16	MOC_FG Hydraulic Improvement
	Client: Mabtaphut Olefin Co.,Ltd
Mar 16 – April 16	ROC_C-1200 Modification
	Client: Rayong Olefin Co.,Ltd
Dec 15 – Feb 16	TPE_Move OL cut tower (T-751)
	Client: Thai Polyethylene Co., Ltd.
Nov 15 – Dec 15	MTT_Relocate pygas product to Jetty 4
	Client: Mab Ta phut Tank Terminal Company Limited
Nov 15 – Dec 15	ROC_Install PSV for protect 8 FG
	Client: Rayong Olefin Co.,Ltd
Nov 15 – Dec 15	TPE_Monomer Loss Recovery HD23
	Client: Thai Polyethylene Co., Ltd.
Nov 15 – Dec 15	MOC_Maximize C4
	Client: Mabtaphut Olefin Co.,Ltd

Senior Project Engineer

Responsibilities:

- Monitor and Control Budget and Project Schedule to ensure that budget, schedule and quality are not over project proposal.
- Coordinate with inter disciplines and contractor to clarify technical problem.
- Report to client for project progress, budget spending and technical problem that concern to budget, schedule and quality and the way to solve problem.
- Participate in development of project's budget, cost estimates and project management schedule.
- Coordinate design and procurement, and ensure timely deliverables from design to procurement, construction
- Monitor functional group planning and progress.
- Coordinate w each function to ensure timely delivery of all project deliverables.
- Assist Project Managers to conduct project risk assessment and project lesson learned regularly.
- Maintain efficient communication between all parties, act as Project Manager when relevant and assist with sign-off/approvals.
- Reinforce safe behaviors.
- Motivate teams and individuals.
- Support and encourage changes aimed at improvement management.
- Delegate appropriately.
- Make decisions to clarify or expedite work.
- Monitor performance and feedback to Project Manager.
- Monitor performance of functional groups and provide feedback to Project Manager.

- Review and approve documentation/deliverables produced by functional groups.
- Work with Prime Contract Administrator for internal and external MOC process.
- Chair various project related meetings.
- Review planning within the project to check activities are clearly defined, sequenced and resourced.
- Review and check cost and schedule progress reports.
- Provide options when faced with problems or conflicts.
- Verification that important activities are complete and checking they meet standards required.
- Coordinate with Construction Engineering Manager/ Production Manager to ensure proper method statements/procedures are implementing on site.
- Participate in project tendering, ensuring all required information (Safety, Engineering, Quality, Procurement, Construction, Project Management, Risk Management) provided to Proposal Manager for the overall proposal preparation and coordination.

Sep 15 – Nov 15	MTT Aromatic Tank Switching Project Client: Mab Ta phut Tank Terminal Company Limited
April 15 – Oct 15	VCM2 Quench Overhead Recovery Project Client: Thai Plastic and Chemicals Public Company Limited
Jan 15 – April 15	VCM1 Shutdown 2015 Client: Thai Plastic and Chemicals Public Company Limited
Jan 14 – Dec 14	VCM 1 Equipment Replacement Project. (Expansion) Client: Thai Plastic and Chemicals Public Company Limited

Lead Piping Engineer

Responsibilities:

- Management of a team of engineers and managing

design projects.

- Assess the required technical knowledge and skills of engineers and designers within the discipline, and to determine training needs.
- Coordinate and work with other discipline leads on technical and departmental issues.
- To study project requirements to establish a project deliverables list.
- To assist piping manager for annual performance review of staff in the department.
- To coordinate with the piping manager for the purchase of additional software and other resources required for the discipline.
- To assist the HR department with the review of CVs for recruitment.
- To evaluate discrepancies in design from design basis, specifications and scope of work and assist in resolving the issues
- Participating in review during engineering stage. Such as HAZOP's etc. as required
- To execution of conceptual design, feasibility studies, PMC, FEED, detail design, procurement support, construction, testing and commissioning
- To evaluation of technical bids and vendor drawing reviews.
- To ensure that safety, environmental and quality and standards are implemented, incorporated and maintained in the design of project.
- Preparing man-hours estimation for the preparation of proposals and bids.
- Providing guideline of engineering design knowledge of oil

and gas piping and associated systems such as pump, drum, and heat exchanger and so on.

- To review and calculation of piping design, stress analysis, piping material selection.
- To review and prepare of specifications, datasheets, material requisitions and drawings such as piping layouts, plot plans, general arrangements and isometrics.
- Working knowledge of international codes, standards and regulations in mechanical engineering such as ASME, ASTM, ANSI, API, NFPA, etc.
- Visit to site for checking exist site condition for piping design.

Nov 13 - Dec 13	<i>MOC-Turnaround 2013</i> Client: Mabtaphut Olefin Co.,Ltd
Jul 13 – Dec 13	<i>MOC-Propane Feed Flexibility (Modification)</i> Clients: Mabtaphut Olefin Co.,Ltd
Feb 12 – Dec 13	<i>ROC Term Service Project, Thailand (Modification)</i> Client: Rayong Olefin Co.,Ltd
Feb 12 – Dec 13	<i>MOC-Plant Improvement Project (Revamp)</i> Client: Mabtaphut Olefin Co.,Ltd
Feb 12 – Dec 13	<i>MOC-Enclosure Ground flare Project (Green Field)</i> Client: Mabtaphut Olefin Co.,Ltd

Senior Piping Engineer

Responsibilities:

- Piping budget estimation for the project.
- Piping man hour estimation for the project.
- Piping engineering progress report.
- Prepare Piping Weekly work activities report.
- Monitor Work load of piping engineer and piping designer.
- Review Piping Details Design from Piping Designer.

- 3D Model Review with client.
 - HAZOP review.
 - Review As built piping drawings.
 - Review fire water spray nozzle design from vendor by Referring NFPA.
 - Order fire water piping equipment such as deluge valve and spray nozzle.
 - TBE for Piping Materials.
 - Issue and follow up piping material.
 - Issue special piping material datasheets.
 - Long Lead Time Piping Materials plan to order.
 - Answer technical query of piping material.
 - Piping calculation such as pipe wall thickness, branch reinforcement.
 - Contact vendor to order piping materials.
 - Site Survey for reviewing pipe routing and tie-in.
 - Preparing ITB for bidding engineering contractor.
 - Contact Engineering contractor for bidding project.
 - Review documents and drawings from contractor.
 - Review critical line list for pipe stress analysis.
 - Review pipe stress analysis report from contractor.
 - Perform pipe stress analysis for critical lines and reports.
 - Review Static Equipment, Rotating Equipment, Instrument, Electrical, Civil datasheets drawings.
 - Review WPS & PQR.
 - Technical Clarification with engineering contractor.
 - Technical consultancy to client.
 - Support technical issue for construction team.
-

Experience with Foster Wheeler International Corporation

- Oct 11-Feb 12 **Thaioil EI&PSA3 Project, Thailand ([Revamp](#))**
Client: Thaioil Public Company Limited.
- April 11-Oct 11 **Sriracha Clean Fuels Project, Thailand ([Revamp](#))**
Clients: Esso (Thailand) Public Company Limited.
- Feb 11-Apr 11 **Feasibility Study CDU Light Distillate Section Upgrade Project, Indonesia ([FEED](#))**
Client: PT PERTAMINA Refinery Unit VI
- Feb 11-Apr 11 **IRPC Ethylene Export Project, Thailand ([FEED](#))**
Clients: IRPC Public Company Limited
- Jul 10-Jan 11 **550KTA CTA Steam Tube Dryer Project, Thailand ([Revamp](#))**
Client: Tuntex Petrochemical Company Limited.
- Aug 08-Jul 10 **Thailand Propylene Oxide Project, Thailand ([Green field](#))**
Client: Dow Chemical Thailand Limited.
- Apr 07-Jul 08 **Cepsa-huelva refinery project, Spain ([Green field](#))**
Client: Cepsa.
- Jan 07- Mar 07 **CDU3 EPCm project, Thailand ([Revamp](#))**
Client: Thai oil public co., ltd.
- Oct 06 – Jan 07 **CDU3 in house project, Thailand ([Revamp](#))**
Client: Thai oil public co., ltd.
- Apr 06 – Oct 06 **CDU-3 Revamp Project, Thailand ([Revamp](#))**
Client: Thai oil public co., ltd.

Piping Design Engineer & Field Piping Engineer

Responsibilities:

- Lead Piping Engineer to run project.
- Review Piping Details Design from Piping Designer.
- Monitor Work load of piping engineer and piping designer.
- Groom young piping design engineer.
- Piping design follows P&ID and client standard.
- Piping 3D Modelling.

- Producing Plot plan drawings.
- Producing General Arrangement Drawings.
- Producing Isometric Drawings.
- Producing Demolition General Arrangement Drawings.
- Producing Demolition Isometric Drawings.
- Producing Tie-in Drawings and Details.
- Equipment Layout Study.
- Preliminary Equipment Drawings.
- Selecting Pipe Support
- Commenting P&IDs, Equipment Datasheets and Vendor Drawings Civil and Structure Drawings, E&I datasheets and Drawings , Process Datasheets
- Meeting with Client for technical Clarification
- Site Survey for checking pipe routing and Tie-in.
- Performing Equipment Layout Study
- Plot Plan Development
- Expansion Loop Design for offsite Piping.
- Engineering Support on site.
- Answered and Solved Site Technical Query.
- Piping calculation such as pipe wall thickness, branch reinforcement.
- Checking Tie-in location before erection.
- Technical Support for piping material issued.
- Site Visit for Engineering issued.
- Punch list Verification and Solution.
- Coordinate with Client, Piping Supervisor, sub- contractor and concerned disciplines.
- Material Take Off
- 3D Model Review with client.
- Review As built piping drawings.

- Technical consultancy to client.
- Support technical issue for construction team.

Experience with Technip Engineering (Thailand) Ltd.

Jul 05 – Apr 06 KWPA Upgraded to hub platform project, Thailand.

Client: Chevron Thailand Exploration and
Production, Ltd. (CTEP)

Crude bund wall water supply project, Thailand.

Client: Alliance Refining Co, Ltd. Thailand.

Water recycles unit project, Thailand.

Client: The Aromatics Co, Ltd.

Piping Engineer

Responsibilities:

- Performing Piping Detail Design of Piping Work such as Plot Plan, GA, ISO and Bill of Material.

Other Experience

Apr 04 – Jun 05 *Celestica (Thailand) Limited*

Process Engineer

Responsibilities:

- Process Control for Product

TRAINING

Trainer: POSCO Engineering Co., Ltd. ([at South Korea](#))

Training Period: [3 Months](#)

Course Title: [Piping Design, Piping Material, Pipe Stress Analysis](#)

Trainer: Process Equipment Technology Co., Ltd.

Course Title: [Piping Systems for Process Plants; Design and Maintenance Practice:](#)

Trainer: Foster Wheeler International Corporation

Course Title: [Basic knowledge of piping engineering](#)

Course Title: [Piping layout overview](#)

Course Title: [FW Piping Materials Systems](#)

Course Title: [Pipe Stress Analysis](#)

Course Title: [Plant Design System \(PDS\)](#)

Trainer: Intergraph

Course Title: [CAESAR II Pipe Stress Analysis \(Static\)](#)

Trainer: Aveva

Training Period: [1 Month](#)

Course Title: [Everything 3D \(E3D\)](#)

Trainer: The Engineering Institute of Thailand

Course Title: [Welding Control, ASME IX](#)

Course Title: [Method and Technique for Testing Boiler](#)

Course Title: [Design and Install of Fire Water System](#)

Course Title: [Design of Building Piping System](#)

SKILLS

Design Programs:

[Everything 3D \(E3D\)](#)

[Naviswork](#)

[Plant Design System \(PDS\)](#)

[Abaqus](#)

[Smart Plant Review](#)

[Mathlab](#)

[Caesar II](#)

[Microstation](#)

[Auto Pipe](#)

[SAP](#)

[AutoCAD](#)

[Microsoft Office](#)

[Raster Design](#)

[Out look](#)

Language: TOEIC [660](#)

REFERENCES

Mr.Chavalit Srianupong.

Project Manager & Proposal Development Manager

Rayong Engineering & Plant Service Co.Ltd

chavalsr@scg.com

Moblie:085-4851485

Mr.Vicharn Ploykrachang.

Former Technical Advisor

PTT maintenance & Engineering Co.Ltd

Moblie:087-5866767

Mr.Edwin C.Landingin

Lead Piping Engineer

Thai Nippon Steel & Sumikin Engineering & Construction Corp.,Ltd

ed_landingin@yahoo.com

Mobile: (00)(63) 918-9131566

Asst,Prof.Dr.Monsak Pimsarn.

Instructor.

King Mongkut's Institute of Technology Ladkrabang,Thailand

monsakp@yahoo.com

Tel.02-326-4994

Mobile.089-7655778