

ภาคผนวก ข

เอกสารประกอบการปฏิบัติตาม
มาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม

ภาคผนวก ข.1

เอกสารรับรองระบบการจัดการสิ่งแวดล้อม (ISO 14001)
และระบบการจัดการด้านอาชีวอนามัย
และความปลอดภัย (ISO 45001)

Certificate TH03/2684

The management system of

Star Petroleum Refining Public Company Limited (SPRC)

No. 1, I-3B Road, Map Ta Phut, Muang Rayong, Rayong 21150, Thailand
has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities
Operation of Crude Oil Refining Process and Manufacture of Asphalt Cement.

This certificate is valid from 16 January 2022 until 16 January 2025 and remains valid subject to satisfactory surveillance audits.
Issue 10. Certified since 07 November 2003.

Authorised by



SGS United Kingdom Ltd.
Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN, UK
t +44 (0)151 350-6666 - www.sgs.com



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Certificate TH04/2685

The management system of

Star Petroleum Refining Public Company Limited (SPRC)

No. 1, I-3B Road, Map Ta Phut, Muang Rayong, Rayong 21150, Thailand
has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities
Operation of Crude Oil Refining Process and Manufacture of Asphalt Cement.

This certificate is valid from 16 January 2022 until 16 January 2025 and remains valid subject to satisfactory surveillance audits.
Issue 10. Certified since 16 September 2004.

Authorised by



SGS (Thailand) Ltd.
100 Nanglinchee Road Chongnonsee Yannawa, Bangkok 10120 Thailand
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Certificate TH07/2686

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Rayong 21150, Thailand

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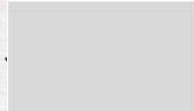
ISO 14001:2015

For the following activities

Operation of Crude Oil Refining Process and
Manufacture of Asphalt Cement.

This certificate is valid from 16 January 2022 until 16 January 2025 and
remains valid subject to satisfactory surveillance audits.
Recertification audit due a minimum of 60 days before the expiration date.
Issue 8. Certified since 16 January 2007

Authorised by



SGS United Kingdom Ltd
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Certificate TH04/2687

The management system of

Star Petroleum Refining Public Company Limited (SPRC)

No. 1, I-3B Road, Map Ta Phut, Muang Rayong,
Rayong 21150, Thailand

has been assessed and certified as meeting the requirements of

ISO 14001:2015

For the following activities

Operation of Crude Oil Refining Process and
Manufacture of Asphalt Cement.

This certificate is valid from 16 January 2022 until 16 January 2025 and
remains valid subject to satisfactory surveillance audits.
Re certification audit due before 6 November 2024
Issue 10. Certified since 16 January 2007

Authorised by



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Certificate TH19/11752

The management system of

Star Petroleum Refining Public Company Limited (SPRC)

No. 1, I-3B Road, Map Ta Phut, Muang Rayong, Rayong 21150, Thailand

has been assessed and certified as meeting the requirements of
ISO 45001:2018

For the following activities

Operation of Crude Oil Refining Process and Manufacture of Asphalt Cement.

This certificate is valid from 14 January 2022 until 13 January 2025 and remains valid subject to satisfactory surveillance audits.
Issue 3. Certified since 14 January 2019.

Authorised by



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ภาคผนวก ข.2

โปรแกรมการจัดการด้านสิ่งแวดล้อม อาชีวอนามัย และความปลอดภัย (Environmental, Health and Safety Management Programmes)

2024 Health, Safety, ER and Security Objectives, Targets & Management Programs

Areas of Focus /Continual Improvement	Objective	Targets	Management Program	Responsibility	Benefit / Cost Incurred	Completion Target (Start-finish)
1. Safe Work Practice	Robust Safe Work Practice System	Complete implement e-PTW in all areas of refinery.	Implement e-PTW in all areas of refinery.	QS/41	Improve efficiency and effectiveness of Safe Work Practice Process	Q1-Q3
2. Training and awareness	Maintain EHS awareness of all SPRC family members	Complete to develop the EHS e-learning and the IIF Orientation training the trainer as plan.	2.1 Develop the EHS e-learning for using in SPRC. 2.2 Set up the IIF Orientation train the trainer session.	QS/42 QS/4	Incident and injury free workplace	Q1-Q4
3. Safety Promotion and Recognition	Increase awareness of safety and IIF for all low-risk contractors.	Complete the program with low-risk contractors.	Set up the program of "Take a break with IIF" and conduct with all low-risk contractors	QS/42	Incident and injury free workplace	Q1-Q2
4. Health Promotion	Raise awareness of health and wellbeing for all SPRC family members.	Overall lipid profile of SPRC staff reduce $\geq 5\%$ compare with previous year.	Set up the healthy promotion activity to encourage SPRC family members to reduce lipid profile	QS/43	Wellbeing organization	Q2-Q4
5. RSI	Improve office facilities to support RSI prevention.	Complete the project within this year.	Develop the project to change office workstations by prioritizing the installation of adjustable desks or sit-to-stand workstations for high-risk groups as the first priority.	QS/43	Incident and injury free workplace	Q1-Q4

Areas of Focus /Continual Improvement	Objective	Targets	Management Program	Responsibility	Benefit / Cost Incurred	Completion Target (Start-finish)
5. Emergency Response Preparedness Enhancement	Readiness and high reliability of firefighting equipment and emergency response	Familiar and learning on Advance fire, tank fire, Hazmat and Rescue	5.1 Set up training program in Q1 to Q3	QS/31 & 32	Knowledge on Tank fire, Advance fire etc.	Q3
6. Emergency Response Preparedness Enhancement	Emergency readiness for SPM operating and Marine terminal	Review and revise Oil Spill Response Contingency Plan	6.1 Conduct the oil spill tabletop for SPM.	QS/3 and PD/1B	Readiness of the response team and duty Rota members	Q1 & Q3
7. Emergency Response Preparedness Enhancement	Emergency operation center communication improvement	Linkage and improve the communication system in each emergency operation and related room (TE3786 Improve EOC room)	7.1 Propose the proposal to the DRB and get approval for phase 3 7.2 Improvement according to the scope approved	QS/31	Good communication in each location	Q2

2024 Environmental Objectives, Targets & Management Programs

Significant Aspect	Objective	Target	Management Program	Responsibility	Benefit / Cost Incurred	Completion Target Date (Start-Finish)	Status As of Apr'24
1. Legal & Other Requirement	Comply with MOI Notification	Fully Comply and report as per legal timeline	1. Continue implement DIW VOC Control at tank, flare and shut down & TA	QS/21		Q1-Q4	In progress, Submitted the 1 st annual VOC emission inventory from tank. Shared VOC measurement practice for shutdown activity with PN.
			2. Continue CEMs installation and online reporting to DIW Project	QS/2 & AS/242 (Project Manager) TE 6236 TE 6283		Q1-Q4	In progress, TE 6236 in CPDEP Phase 4 new CEM will be installed in Q2 and connect to DIW. TE 6283 approved CPDEP Phase 3 in Apr'24, move to CPDEP phase 4
	Comply with Ministry of Natural Resources Environment Notification	Fully Comply and report as per legal timeline	3. Implement Benzene monitoring at fence line.	QS/2		Q4	The regulation announced on 2 Apr 2024, effective in Oct'25. Plan to start in Oct'24.

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Date: 15-May-24

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Significant Aspect	Objective	Target	Management Program	Responsibility	Benefit / Cost Incurred	Completion Target Date (Start-Finish)	Status As of Apr'24
2. SPM Oil spill Post incident and recovery	Improve reliability of SPM.	Get approval from Marine Department	4. Conduct EIA Study report for SPM new bouy	QS/2		Q4	
	Assess environmental impact from SPM oil spill	Support SPM resume operation and ongoing court case	5. Continue to conduct EIA post oil project by 3 universities researchers	QS/2	Resume SPM operation and support court case	Q4	Engaged relevant government agencies in Q1'24. Plan to distribute summary report in Q2.
3. Emissions to Air	<ul style="list-style-type: none"> Improve determine sources complaints for prevention or mitigation Identify release and prediction during emergency case 	Proactive to control sources prior to get community complaints	6. Continue TE3791: Fence-line Air Quality Monitoring System Installation, CPDEP Phase 3	QS/2 & AS/244 (Project Manager)		Q4'24	Completed FAT in US, plan to shipment to Thailand for installation in Q3'24.
4. Waste Management	To seek opportunities to improve waste management.	To raise Green awareness staff and contractor	7. Continue waste reduction program "Reduce single use plastic" and Office waste segregation	QS/22	Reduce waste and GHG emission	Q4	In progress, promotion "This cup we treat", Drinking water station, waste segregation.

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Date: 15-May-24

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Significant Aspect	Objective	Target	Management Program	Responsibility	Benefit / Cost Incurred	Completion Target Date (Start-Finish)	Status As of Apr'24
	Seek opportunity to reduce landfill waste	Zero waste to landfill	8. Explore 3R disposal method for sulfur waste, lab waste, air filter and RO membrane	QS/22		Q4	Collaborated with other department for these items handling and discussed with waste processor for alternative disposal method
	Seek opportunity to change office food waste to soil amendment	Zero food waste	9. Install food composting machines to reduce food waste and create soil amendment	QS/22	Reduce waste and GHG emission	Q4	

Note:

1. Community Relationship and Public Affair, please refer to Social Responsibility & Community Outreach Action Plan.
2. Use of Natural Resources, please refer to Energy Roadmap & Sustainable Development (SD) Water Management Roadmap.
3. Release to Air, please refer to SD Air Quality and Climate Change

ภาคผนวก ข.3

นโยบายสิ่งแวดล้อม สุขภาพอนามัย และความปลอดภัย



ENVIRONMENT, HEALTH AND SAFETY POLICY

Star Petroleum Refining Public Company Limited

It is the policy of SPRC to conduct business in a socially responsible and ethical manner with the balance of environment, social and economic that protects safety and health of SPRC family, concerned stakeholders and the environment in the area which may be impacted by our operation.

SPRC is committed to organizational culture and environment where Environment, Health and Safety (EHS) are recognized as value-based and built on a mindset intolerant of any level, frequency or severity of incident and injury. We believe that all injuries can be prevented, and our goal of incident and injury free operations is achievable.

Our commitment on Operational Excellence (OE) is embodied in EHS value of building Incident and Injury Free (IIF) leadership and a caring family mindset.

This culture is reflected in SPRC Environment, Health and Safety Policy as follows:

1. Achieve EHS excellence including compliance with all applicable EHS legal, regulatory and other requirements.
2. Integrate EHS performance as a part of SPRC key performance indicators and place the management of EHS as a prime responsibility of line management. Inspire every individual be responsible for his/her own safety and the safety of others.
3. Create Incident and Injury Free (IIF) culture, apply pollution prevention, risk-based thinking, and pro-active methods to promote personal and process safety and minimize impacts to environment and health. When unsafe situation occurs, we stop work and take action.
4. Creatively promote awareness, understanding, involvement and leadership of SPRC personnel in EHS management system and programs through relationship building, training, engagement, and consultation.
5. Build a safe, reliable, and healthy workplace and a healthier, mindful and disciplined SPRC family to drive toward incident and injury free operations, prevent injuries and process safety incidents and make long-lasting healthy lifestyle and wellness.
6. Build low carbons and resource-circulating society throughout green supply chain management to minimize Climate Changes impact, ensure efficient use of the natural resources and to deliver environmentally friendly products for sustainable development.
7. Foster caring, communication, understanding, and cooperation related to EHS issues including EHS objectives within SPRC and between SPRC, surrounding communities and business and Thai governmental bodies.
8. Review the compliance of EHS policy, management system and programs and make corrective actions where required.
9. Implement continual improvement in SPRC Environmental, Health and Safety performance to aim the sustainability.

This policy applies to all SPRC personnel and the conduct of the SPRC's business and operations by considering Life Cycle Perspective. Safety covers both personal and process safety.

Responsibility

1. The Management is responsible for providing adequate and appropriate resources to implement the EHS policy and management system.
2. All SPRC personnel shall be responsible for their own safety and safety of others and shall always make time for people to extend the "circle of influence" and spread IIF culture.
3. All SPRC personnel shall know, understand and carry out duties in accordance with EHS training and instructions and actively participate in the development and implementation of EHS programs, procedures and standards.

Procedures

1. SPRC shall ensure that the EHS policy is documented, implemented, maintained, updated, monitored and communicated to everyone in order to meet or exceed applicable EHS standards/practices which lead to the excellent performance in EHS aspects for SPRC personnel and other stakeholders.
2. SPRC shall maintain awareness and focus for all SPRC personnel on EHS standards, rules & regulations and procedures through training, promotion and communications.
3. SPRC shall ensure effective functioning of EHS Management System and always seek opportunities for continual improvements through utilization of available best practices.



Robert J. Dobrik
Chief Executive Officer



Revision No.: 05
Date: 5 Jan. 2022

นโยบายสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) มีนโยบายดำเนินธุรกิจด้วยความรับผิดชอบต่อผู้มีส่วนได้เสียทุกฝ่าย โดยให้ความสำคัญกับความปลอดภัยสุขภาพอนามัยของสมาชิกครอบครัวบริษัทฯ ผู้มีส่วนได้เสียที่เกี่ยวข้อง ตลอดจนสิ่งแวดล้อม สังคม และเศรษฐกิจในพื้นที่ซึ่งอาจได้รับผลกระทบจากการดำเนินธุรกิจของบริษัทฯ

บริษัทฯ มีความมุ่งมั่นในการสร้างวัฒนธรรมองค์กรที่ยึดถือด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยเป็นค่านิยมหลักและมีแนวคิดที่จะไม่ยอมให้มีอุบัติเหตุและการบาดเจ็บเกิดขึ้นไม่ว่าจะเป็นความรุนแรงหรือความถี่ระดับไหน บริษัทฯ มีความเชื่อว่าการบาดเจ็บสามารถป้องกันได้ และสามารถบรรเทาเป้าหมายการทำงานที่ปราศจากอุบัติเหตุและการบาดเจ็บได้

ค่านิยมหลักของบริษัทฯ ในด้านความเป็นเลิศในการปฏิบัติงานถูกบรรจุอยู่ในค่านิยมด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยในการสร้างแนวความคิดเป็นผู้นำด้านการดำเนินงานโดยปราศจากอุบัติเหตุและการบาดเจ็บและครอบครัวแห่งความห่วงใยเอื้ออาทร

ดังนั้นจึงกำหนดให้มีนโยบายสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยไว้ดังต่อไปนี้

1. บรรลุความเป็นเลิศด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย รวมทั้งปฏิบัติตามกฎหมาย ระเบียบข้อบังคับและมาตรฐานที่เกี่ยวข้องกับกองประกอบกิจการของบริษัทฯ
2. กำหนดให้ผลการปฏิบัติงานด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย เป็นหนึ่งในดัชนีชี้ประสิทธิภาพหลักของบริษัทฯ และการบริหารงานมีค่านิยมที่ให้ความสำคัญของสายงานบริหารในระดับต่าง ๆ เพื่อสร้างแรงบันดาลใจให้ทุกคนมีจิตสำนึกต่อความปลอดภัยของตนเองและผู้อื่น
3. สร้างวัฒนธรรมการทำงานโดยปราศจากอุบัติเหตุและการบาดเจ็บ (HSE) ใช้วิธีการป้องกันมลพิษที่ต้นเหตุ (Pollution Prevention) ใช้วิธีคิดแบบพื้นฐานของความเสี่ยง (Risk-based thinking) และการดำเนินธุรกิจเชิงรุก (Pro-active) เพื่อส่งเสริมความปลอดภัยส่วนบุคคลและความปลอดภัยระดับองค์กร ผลิตภัณฑ์ และลดผลกระทบด้านสิ่งแวดล้อมและสุขภาพอนามัย หากมีสถานการณ์ที่ไม่ปลอดภัยเกิดขึ้น เราหยุดและแก้ไขสถานการณ์นั้นทันที
4. ใช้วิธีการอย่างสร้างสรรค์ในการส่งเสริมให้บุคลากรของบริษัทฯ มีความรู้ความเข้าใจ มีส่วนร่วมและมีความเป็นผู้นำในการดำเนินสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยผ่านทางการสร้างความรู้สึกร่วมกัน การฝึกอบรม การสร้างความรู้ความผูกพันในองค์กรและการประชาสัมพันธ์
5. ดำเนินการเพื่อให้สถานที่ทำงานมีความปลอดภัย เชื้อเพลิงและบุคลากรอย่างเหมาะสมให้ผู้ปฏิบัติงานมีสุขภาพอนามัยที่ดี มีสติและมีวินัย เพื่อนำไปสู่การทำงานที่ปราศจากอุบัติเหตุและการบาดเจ็บ ป้องกันการบาดเจ็บและอุบัติเหตุจากการบริหารการผลิตและมีคุณภาพชีวิตที่ดีอย่างยั่งยืน
6. สร้างสังคมคาร์บอนต่ำและหมั่นเตือนการใช้ทรัพยากร ผ่านกระบวนการบริหารจัดการห่วงโซ่อุปทานที่เป็นมิตรต่อสิ่งแวดล้อม เพื่อลดผลกระทบจากการเปลี่ยนแปลงของสภาพภูมิอากาศ การใช้ทรัพยากรอย่างมีประสิทธิภาพ และส่งมอบผลิตภัณฑ์ที่เป็นมิตรต่อสิ่งแวดล้อม เพื่อการพัฒนาอย่างยั่งยืน
7. เสริมสร้างความเอื้ออาทรและใส่ใจ การสื่อสารความเข้าใจและความร่วมมือภายในบริษัทฯ และระหว่างบริษัทฯ กับชุมชนใกล้เคียงองค์กรที่เกี่ยวข้องและหน่วยงานของรัฐภาคี ทางด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย ทั้งนี้โดยครอบคลุมทั้งวัตถุดิบ-ผลิตภัณฑ์-เป้าหมายที่กำหนดไว้
8. จัดให้มีการทบทวนนโยบาย ระบบการจัดการและโครงการด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย และดำเนินการปรับปรุงแก้ไข
9. พัฒนาการดำเนินงานด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยอย่างต่อเนื่องเพื่อความยั่งยืน

นโยบายสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยนี้เป็นของทุกคนการปฏิบัติงานของบุคลากรทุกคน ในทุกๆ กิจกรรมของบริษัทฯ และค่านิยมโดยพิจารณาของวงจรชีวิตอย่างรอบด้าน ความปลอดภัยในที่นี่ครอบคลุมถึงความปลอดภัยส่วนบุคคลและความปลอดภัยระดับองค์กรการผลิต

หน้าที่ความรับผิดชอบ

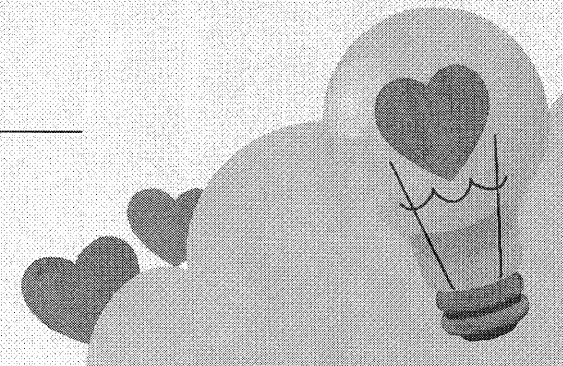
1. ผู้บริหารมีหน้าที่ในการจัดสรรทรัพยากรที่เหมาะสม และเพียงพอต่อการดำเนินการตามนโยบายและระบบบริหารจัดการด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย
2. บุคลากรทุกคนของบริษัทฯ ต้องรับผิดชอบต่อความปลอดภัยของตนเองและผู้อื่นที่เกี่ยวข้อง และต้องให้หลักกับบุคคลเสมอในการขยาย "ขอบเขตแห่งอิทธิพล" และเผยแพร่วัฒนธรรมการทำงานโดยปราศจากอุบัติเหตุและการบาดเจ็บ
3. บุคลากรทุกคนของบริษัทฯ มีหน้าที่ในการรับรู้ เข้าใจและปฏิบัติตามให้ถูกต้องตามขั้นตอนการปฏิบัติงานและความรู้ที่ได้รับจากการฝึกอบรมด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย ตลอดจนการมีส่วนร่วมในการพัฒนาและปฏิบัติตามมาตรฐานระเบียบปฏิบัติงานและโครงการต่าง ๆ ในด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย

การนำไปปฏิบัติ

1. บริษัทฯ ต้องดำเนินการเพื่อให้มั่นใจว่า นโยบายสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยได้มีการจัดทำและระบุไว้อย่างเป็นลายลักษณ์อักษร มีการนำไปปฏิบัติ ดำรงไว้ ปรับปรุงใหม่ ติดตามตรวจสอบและมีการสื่อสารไปยังผู้ที่เกี่ยวข้องทุกคน เพื่อให้ได้ผลการดำเนินงานด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยตามมาตรฐานและวัตถุประสงค์ภายใต้วิสัยทัศน์ว่า จะนำไปสู่ความยั่งยืนของการดำเนินงานด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยสำหรับบุคลากรและชุมชนได้ดียิ่งขึ้น
2. บริษัทฯ ต้องดำรงไว้ซึ่งความตระหนักและใส่ใจสำหรับบุคลากรของบริษัทฯ ทุกคนในเรื่องของมาตรฐาน กฎระเบียบข้อบังคับและระเบียบปฏิบัติงานด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัย ผ่านทางการฝึกอบรม การส่งเสริมประชาสัมพันธ์และการสื่อสาร
3. บริษัทฯ ต้องดำเนินการเพื่อให้มั่นใจว่าระบบบริหารจัดการด้านสิ่งแวดล้อม สุขภาพอนามัยและความปลอดภัยมีการดำเนินงานอย่างมีประสิทธิภาพ และแสวงหาโอกาสในการปรับปรุงอย่างต่อเนื่อง โดยพิจารณาจากมาตรฐานและวิธีการปฏิบัติงานที่ดีและได้รับการยอมรับมาใช้

ปรับปรุงแก้ไขครั้งที่: 5
วันที่ 5 มกราคม 2565

ไธเบิร์ต โจเซฟ โดบรีค
ประธานเจ้าหน้าที่บริหาร



PRODUCT QUALITY POLICY

Star Petroleum Refining Public Company Limited

It is the policy of SPRC to provide quality products which meet specifications required by law, other applicable standards and customer's expectations.

Ensuring product integrity is critical to satisfying customer needs and expectations for quality and value in SPRC's products. This is vital to insure SPRC products' reputation, quality image and maintenance industry trust.

It is reflected in SPRC Product Quality Policy as follows:

- Provide customers with products and services which meet agreed specifications and performance requirements as well as comply with all applicable product quality laws and regulations and other requirements every time.
- Provide products which are safe and effective for their intended use when handled and used according to recommended guidelines and procedures.
- Working within an Incident and Injury Free culture, apply the continual Quality Management process to secure SPRC's competitive edge with the aim of being best in class and to continue to provide customers satisfaction.
- Stimulate innovation, involvement and co-operation at all levels of the organization to enhance the development of products quality and integrity.
- Implement continual improvement in quality performance and measure appropriate performance indicators resulting in meeting of the agreed specifications and performance requirement of the products in order to gain competitive advantage, enhance shareholder value, and exceed customer expectations.

This policy applies to all SPRC personnel and the conduct of the SPRC's business and operations and shall include all SPRC products sold by SPRC through direct sales and/or off-take agreements.



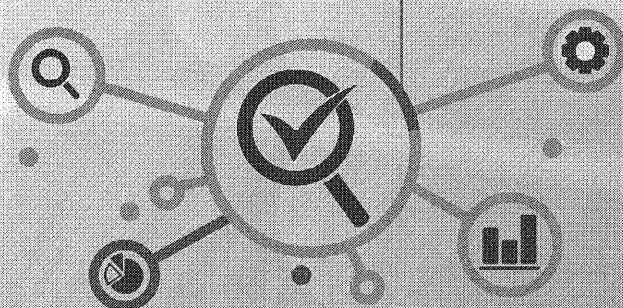
Responsibility

The Management is responsible for the integrity of SPRC products that it manufactures and sells. The Management is also responsible to provide adequate and appropriate resources to implement the Product Quality Policy and related management system and ensuring that SPRC personnel understand the roles and responsibilities toward the product quality.

All SPRC personnel shall know, understand, and carry out duties to achieve the Product Quality specifications.

Procedures

1. SPRC products shall comply with all applicable legal and business requirements/standards.
2. Products which SPRC manufactures, and sells are tested in accredited laboratories.
3. SPRC shall foster a climate in which innovation and initiative are encouraged and shall demonstrate commitment to continual improvement by recognizing and rewarding SPRC personnel accordingly.
4. SPRC shall incorporate House of Quality to actively promote and facilitate communication and cooperation within and across functions in order to improve product quality, supply reliability, services and work processes.
5. Performance against those standards will be monitored and feedback regularly.



Robert J. Dobrik
Chief Executive Officer

Revision No.: 4
Date: 1 June 2022

นโยบาย คุณภาพของผลิตภัณฑ์

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) มีนโยบายที่ผลิตและจัดจำหน่ายผลิตภัณฑ์ที่มีคุณภาพ ตรงตามข้อกำหนดของกฎหมาย มาตรฐานต่างๆ ที่มีผลบังคับใช้ต่อผลิตภัณฑ์และตรงตามความต้องการของลูกค้า

การทำให้เกิดความเชื่อมั่นต่อคุณภาพของผลิตภัณฑ์ถือเป็นสิ่งสำคัญในการตอบสนองความต้องการและความคาดหวังของลูกค้าในเรื่องของคุณภาพและคุณค่าผลิตภัณฑ์ของบริษัทฯ มีสื่อส่วนสำคัญที่สุดที่จะรับประกันชื่อเสียงภาพลักษณ์ที่ดีต่อผลิตภัณฑ์ของบริษัทฯ ตลอดจนรักษาความเชื่อมั่นและความไว้วางใจของภาคอุตสาหกรรมที่มีต่อบริษัทฯ

บริษัทฯ จึงกำหนดให้มีนโยบายคุณภาพของผลิตภัณฑ์ไว้ดังต่อไปนี้

- จัดหาสินค้าและบริการให้ตรงตามความต้องการและข้อกำหนดที่ได้ตกลงไว้กับลูกค้ารวมถึงคุณภาพของสินค้าและบริการนั้นจะต้องได้มาตรฐานตามข้อกำหนดของกฎหมายและมาตรฐานต่างๆ ที่มีผลบังคับใช้ต่อผลิตภัณฑ์ในด้านคุณภาพตลอดเวลา
- ดำเนินการผลิตผลิตภัณฑ์ที่ปลอดภัยและมีประสิทธิภาพให้เป็นไปตามข้อกำหนดของผลิตภัณฑ์ที่ได้รับใช้ในระเบียบปฏิบัติงาน
- ปฏิบัติงานภายใต้วัฒนธรรมการทำงานโดยปราศจากอุบัติเหตุและการบาดเจ็บ ใช้กระบวนการบริหารคุณภาพทั่วทั้งองค์กรทำให้บริษัทฯ รักษาความได้เปรียบในการแข่งขัน เพื่อเป็นผู้นำในธุรกิจ และสามารถตอบสนองความพึงพอใจของลูกค้าได้อย่างต่อเนื่อง
- กระตุ้นพนักงานทุกระดับของบริษัทฯ ให้เกิดนวัตกรรม ความร่วมมือและการมีส่วนร่วมเพื่อเสริมสร้างการพัฒนาคุณภาพและความสมบูรณ์ของผลิตภัณฑ์
- ดำเนินงานในเรื่องการปรับปรุงคุณภาพอย่างต่อเนื่องและการวัดผลในตัวชี้วัดผลการดำเนินงานที่เหมาะสมตามข้อกำหนดของผลิตภัณฑ์และความต้องการที่ตกลงกับ เพื่อที่จะรักษาความได้เปรียบในการแข่งขันทางธุรกิจ เพื่อบูลค่าให้กับผู้ถือหุ้นและตอบสนองต่อความคาดหวังของลูกค้า

นโยบายคุณภาพของผลิตภัณฑ์นี้มีขอบเขตรอบคลุมถึงบุคลากรทุกคนของบริษัทฯ การดำเนินงานและการผลิตของบริษัทฯ ตลอดจนผลิตภัณฑ์ทุกชนิดของบริษัทฯ ทั้งที่จัดทำภายใต้ชื่อและจัดจำหน่ายผ่านทางผู้ถือหุ้น



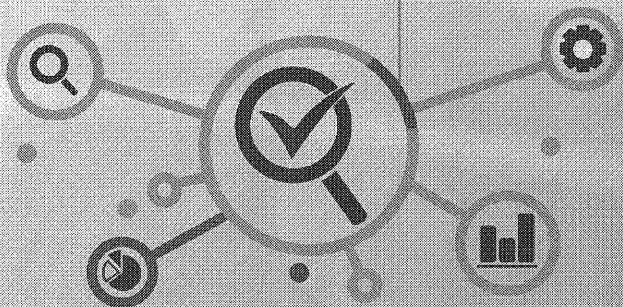
หน้าที่ความรับผิดชอบ

ผู้บริหารมีหน้าที่รับผิดชอบต่อความสมบูรณ์ของผลิตภัณฑ์ที่ผลิตและจัดจำหน่ายของบริษัทฯ นอกจากนี้ยังมีหน้าที่ในการจัดสรรทรัพยากรที่เหมาะสม และเพียงพอต่อการดำเนินการตามนโยบายคุณภาพของผลิตภัณฑ์และระบบบริหารจัดการด้านคุณภาพ ตลอดจนทำให้เกิดความมั่นใจว่าบุคลากรของบริษัทฯ ทำได้ถึงมาตรฐานที่มีคุณภาพของผลิตภัณฑ์

บุคลากรทุกคนของบริษัทฯ มีหน้าที่ในการรับรู้ เข้าใจและปฏิบัติตามข้อกำหนดบังคับเพื่อให้ผลิตภัณฑ์มีคุณภาพตามที่กำหนด

การนำไปปฏิบัติ

1. ผลิตภัณฑ์ของบริษัทฯ จะต้องคุณภาพตรงตามข้อกำหนดตามกฎหมายตลอดจนมาตรฐานต่างๆ ที่มีผลบังคับใช้ต่อผลิตภัณฑ์
2. ผลิตภัณฑ์ของบริษัทฯ ที่ผลิตและจัดจำหน่ายจะต้องได้รับการตรวจสอบและรับรองคุณภาพจากห้องปฏิบัติการที่ได้รับการรับรองและเชื่อถือได้
3. บริษัทฯ สนับสนุนอย่างจริงจังในการทำให้เกิดนวัตกรรมและความคิดริเริ่มสร้างสรรค์ และบริษัทฯ มีความมุ่งมั่นที่จะทำให้เกิดการปรับปรุงคุณภาพของผลิตภัณฑ์อย่างต่อเนื่องโดยการขับเคลื่อนและให้รางวัลแก่บุคลากรของบริษัทฯ ที่มีส่วนเกี่ยวข้อง
4. บริษัทฯ ใช้กระบวนการของ "House of Quality" ในการส่งเสริมให้เกิดการสื่อสารแผนการประสานงานที่มีประสิทธิภาพภายในบริษัทฯ เพื่อให้มีการปรับปรุงคุณภาพของผลิตภัณฑ์ การให้บริการ รวมถึงกระบวนการทำงานอย่างยั่งยืน
5. ผลการดำเนินงานที่ไม่เป็นไปตามมาตรฐานจะถูกติดตามและแก้ไขอย่างเป็นประจำ



โรเบิร์ต โจเซฟ โดบรีค
ประธานเจ้าหน้าที่บริหาร

ปรับปรุงแก้ไขครั้งที่: 4
วันที่ 1 มิถุนายน 2565



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1. Policy

It is the policy of SPRC to conduct business in a socially responsible and ethical manner with the balance of environment, social and economic that protects safety and health of SPRC family, concerned stakeholders and the environment in the area which may be impacted by our operation.

SPRC is committed to organizational culture and environment where Environment, Health and Safety (EHS) are recognized as value-based and built on a mindset intolerant of any level, frequency or severity of incident and injury. We believe that all injuries can be prevented, and our goal of incident and injury free operations is achievable.

Our commitment on Operational Excellence (OE) is embodied in EHS value of building Incident and Injury Free (IIF) leadership and a caring family mindset.

This culture is reflected in SPRC Environment, Health and Safety Policy as follows:

1. Achieve EHS excellence including compliance with all applicable EHS legal, regulatory and other requirements.
2. Integrate EHS performance as a part of SPRC key performance Indicators and place the management of EHS as a prime responsibility of line management. Inspire every individual be responsible for his/her own safety and the safety of others.
3. Create Incident and Injury Free (IIF) culture, apply pollution prevention, risk-based thinking, and pro-active methods to promote personal and process safety and minimize impacts to environment and health. When unsafe situation occurs, we stop work and take action.
4. Creatively promote awareness, understanding, involvement and leadership of SPRC personnel in EHS management system and programs through relationship building, training, engagement, and consultation.
5. Build a safe, reliable, and healthy workplace and a healthier, mindful and disciplined SPRC family to drive toward incident and injury free operations, prevent injuries and process safety incidents and make long-lasting healthy lifestyle and wellness.
6. Build low carbons and resource-circulating society throughout green supply chain management to minimize Climate Changes impact, ensure efficient use of the natural resources and to deliver environmentally friendly products for sustainable development.



7. Foster caring, communication, understanding, and cooperation related to EHS issues including EHS objectives within SPRC and between SPRC, surrounding communities and business and Thai governmental bodies.
8. Review the compliance of EHS policy, management system and programs and make corrective actions where required.
9. Implement continual improvement in SPRC Environmental, Health and Safety performance to aim the sustainability.

2. Scope

This policy applies to all SPRC personnel and the conduct of the SPRC's business and operations by considering Life Cycle Perspective. Safety covers both personal and process safety.

3. Responsibility

1. The Management is responsible for providing adequate and appropriate resources to implement the EHS policy and management system.
2. All SPRC personnel shall be responsible for their own safety and safety of others and shall always make time for people to extend the "circle of influence" and spread IIF culture.
3. All SPRC personnel shall know, understand and carry out duties in accordance with EHS training and instructions and actively participate in the development and implementation of EHS programs, procedures and standards.

4. Procedures

1. SPRC shall ensure that the EHS policy is documented, implemented, maintained, updated, monitored and communicated to everyone in order to meet or exceed applicable EHS standards/practices which lead to the excellent performance in EHS aspects for SPRC personnel and other stakeholders.
2. SPRC shall maintain awareness and focus for all SPRC personnel on EHS standards, rules & regulations and procedures through training, promotion and communications.



3. SPRC shall ensure effective functioning of EHS Management System and always seek opportunities for continual improvements through utilization of available best practices.

ภาคผนวก ข.4

ตำแนห่งสื่อนำส่งรายงานผลการปฏิบัติตาม
มาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม
ต่อหน่วยงานอนุญาต



STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

เลขทะเบียนนิติบุคคล 0107555000155

SPRC-QS-OUT24-1573

26 มกราคม พ.ศ. 2567

เรื่อง ขอนำส่งรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) ครั้งที่ 2/2566 ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ. 2566

เรียน อธิบดีกรมเจ้าท่า

สิ่งที่ส่งมาด้วย รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) จำนวน 3 เล่ม และ CD-ROM จำนวน 4 แผ่น

ตามที่ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) ได้รับความเห็นชอบในรายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ (ครั้งที่ 4) (EIA) ตามหนังสือ ที่ ออก 5102.3.1/1266 ลงวันที่ 7 พฤษภาคม พ.ศ. 2562 ซึ่งโครงการตั้งอยู่ในนิคมอุตสาหกรรมมาบตาพุด ตำบลมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง เลขทะเบียนโรงงาน น. 49-1/2537-ญนพ.

เพื่อให้เป็นไปตามประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง หลักเกณฑ์ และวิธีการจัดทำรายงานผลการปฏิบัติตามมาตรการที่กำหนดไว้ในรายงานการประเมินผลกระทบสิ่งแวดล้อม ซึ่งผู้ดำเนินการ หรือผู้ขออนุญาต จะต้องจัดทำเมื่อได้รับอนุญาตให้ดำเนินโครงการหรือกิจการแล้ว พ.ศ.2561 ทางบริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) จึงได้ขอนำส่งรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ ครั้งที่ 2/2566 ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ. 2566 ดังรายละเอียดตามสิ่งที่ส่งมาด้วย เพื่อให้หน่วยงานของท่านพิจารณาและดำเนินการตามขั้นตอนต่อไป

หากท่านมีข้อเสนอแนะหรือต้องการข้อมูลเพิ่มเติมประการใด ขอความกรุณาติดต่อนางนิภา นิยมานเศรษฐกุล ผู้เชี่ยวชาญด้านสิ่งแวดล้อม หมายเลขโทรศัพท์ 038-699-313

จึงเรียนมาเพื่อโปรดทราบ

ขอแสดงความนับถือ



รองกรรมการผู้จัดการใหญ่
ด้านปฏิบัติการเพื่อความเป็นเลิศ



เจ้าพนักงานธุรการ

๓๐ ม.ค. ๒๕๖๗



STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

เลขทะเบียนนิติบุคคล 0107555000155

SPRC-QS-OUT24-1573

26 มกราคม พ.ศ. 2567

เรื่อง ขอนำส่งรายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) ครั้งที่ 2/2566 ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ. 2566

เรียน ผู้อำนวยการสำนักงานท่าเรืออุตสาหกรรมมาบตาพุด

สิ่งที่ส่งมาด้วย รายงานผลการปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) จำนวน 1 เล่ม และ CD-ROM จำนวน 1 แผ่น

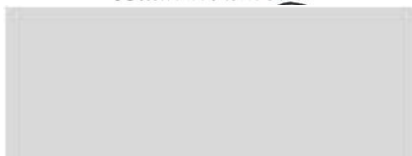
ตามที่ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) ได้รับความเห็นชอบในรายงานการเปลี่ยนแปลงรายละเอียดโครงการในรายงานการประเมินผลกระทบสิ่งแวดล้อม โครงการทำเทียบเรือ (ครั้งที่ 4) (EIA) ตามหนังสือ ที่ ออก 5102.3.1/1266 ลงวันที่ 7 พฤษภาคม พ.ศ. 2562 ซึ่งโครงการตั้งอยู่ในนิคมอุตสาหกรรมมาบตาพุด ตำบลมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง เลขทะเบียนโรงงาน น. 49-1/2537-ญนพ.

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หากท่านมีข้อเสนอแนะหรือต้องการข้อมูลเพิ่มเติมประการใด ขอความกรุณาติดต่อนางนิภา นิมมานเศรษฐกุล ผู้เชี่ยวชาญด้านสิ่งแวดล้อม หมายเลขโทรศัพท์ 038-699-313

จึงเรียนมาเพื่อโปรดทราบ

ขอแสดงความนับถือ



รองกรรมการผู้จัดการใหญ่
ด้านปฏิบัติการเพื่อความเป็นเลิศ

รับแล้ว
29 M.A. 2567
จิตรัฐกุล

ภาคผนวก ข.5

ระเบียบปฏิบัติ เรื่อง การตรวจสอบเครื่องจักรและอุปกรณ์ประจำเดือน
และตัวอย่างบันทึกการตรวจสอบเครื่องจักรและอุปกรณ์



Star Petroleum Refining Public Company Limited

Production Unit Movement and Dispatches

HC-FO-PD-3015

Plant 67 General Condition Monthly Check List

Prepared by:

Opas Waiyasatja
Waterfront Coordinator

Approved by:

Paul A. Rushworth
Production Unit Movement and Dispatch Manager

Distribution List

Copy No.	Controller/Holder	Location
00	Electronic	FDMS

Amendment List

[illegible]

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1. Plant 67 Check List

1.1 Purpose

This Check List is to be completed monthly by the designated shift to ensure that the General Condition of Plant 67 are maintained in good condition.

1.2 Summary

This General Condition Monthly Check List for the Plant 67 must be completed each month, all items on the list must be checked and the appropriate Yes/No column completed. Any responses in the 'No' column must be supported by entering findings in the 'Comments' column and by entering the Work Request MR number to indicate that any actions required to correct deficiencies have been initiated.

It is the Senior Operator responsibility to ensure that the Shift Check List is completed as scheduled.

The check list must be signed by the Area Operator(s) carrying out the checks, Senior Operator must then sign to indicate that he has reviewed the check list and taken any necessary actions required i.e. Senior Operator informed, work request entered, recorded in turnover, appropriate people informed of deficiencies etc.

2. Plant 67 General Condition Monthly Checklist

Plant 67 SUPPORT FACILITY

Month: _____

Year: _____

Location	Description	Yes	No	Comments	MR No.
Sanitary System	Hypochlorite tank level OK				
	Acid feed pump OK				
	Air blower working				
	Sludge level OK				
	Fire extinguisher in place				
	Enough Hypochlorite available				
	Empty Hypochlorite containers removed				
	Discharge pipe clear of debris				
	Discharge channel clean				
	Clean, safe & well maintained				

LPG Flare	Pressure Gauges OK				
	Meter sun shade in good condition				
	Warning signs in place				
	Lighting OK				
	Raw water supply OK				
	Utility air point in good condition				
	Block valves greased & exercised				
	Utility hose in place				
	Clean, safe & well maintained				

Nitrogen Meter Skid	Pressure gauges OK				
	Cage locked				
	Clean, safe & well maintained				

Sub Station	Lighting OK				
	CO2 Extinguisher				
	Air conditioning OK				
	Doors closed				
	Clean, safe & well maintained				

Location	Description	Yes	No	Comments	MR No.
Emergency Generator House	Engine control switch in auto				
	Alarm panel clear				
	Lamp test OK				
	Fuel tank level OK				
	Lighting OK				
	Sprinkler inlet valve open				
	Fire hose connection covers on				
	Clean, safe & well maintained				

Mini Lab	Air conditioning working				
	Vent fan working				
	Water supply OK				
	Drainage OK				
	Testing equipment clean & stored				
	Fire extinguishers in place				
	Clean, safe & well maintained				

MCB Lift Station	Inspection hatch cover in place				
	Pumps run OK				
	Pumps in auto				
	Clean, safe & well maintained				

48" Crude Line	Sample points clean				
	Pressure gauges OK				
	Drain plugs in place				
	Block valves greased & exercised				
	Access platform clear				
	Clean, safe & well maintained				

Shoreline Valve Area	Line identification OK				
	Deck drain clean				
	Firemain block valve open				
	Block valves greased & exercised				
	MOV fire protection covers in place				
	Drain plugs in place				
	Walkways clear				
	Clean, safe & well maintained				



Location	Description	Yes	No	Comments	MR No.
Oil Spill Boom Area	Oil spill boom covered				
	Deployment gate unobstructed				
	Oil spill container access OK				
	Full Lube oil drums on pallets.				
	Full dye drums on pallets				
	Empty drums removed				
	Nitrogen bottles secure in stand				
	Safety shower & eye wash OK				
	Clean, safe & well maintained				

Hose Maintenance Area & Sump	Adjustable slide gate closed				
	Pump run OK				
	Pump in auto				
	Pressure gauge OK				
	Outfall valve closed				
	Sump level OK				
	Sump contents clean & free of debris				
	Hose roller channel clean				
	Raw water supply OK				
	Utility air point in good condition				
	Block valves greased & exercised				
	Clean, safe & well maintained				

Excise Lift & Utility Station	Inspection hatch cover in place				
	Pump run OK				
	Discharge valve open				
	Pump in auto control				
	Raw water supply OK				
	Utility air point in good condition				
	Block valves greased & exercised				
	Clean, safe & well maintained				

Inspected by Operator: _____ Date: _____

Checked by Senior Operator: _____ Date: _____

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

[illegible]

[illegible][illegible]

[illegible][illegible]

[illegible]

Equipment Tag	Equipment Description	Check List	Check List Description	Inspection result	Unit	Date/Time	Report By
Sanitary Treatment	Waste Water	No Overflow to Outside Bund?	Yes.	Single Selection		2024-06-27 05:55:39.000	traiongr
Sanitary Treatment	Waste Water	No Overflow to Outside Bund?	Yes.	Single Selection		2024-06-27 23:46:30.000	traiongr
Sanitary Treatment	Waste Water	No Overflow to Outside Bund?	Yes.	Single Selection		2024-06-28 21:20:42.000	traiongr
Sanitary Treatment	Waste Water	No Overflow to Outside Bund?	Yes.	Single Selection		2024-06-29 23:25:59.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-04-29 05:27:15.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-04-30 01:57:28.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-01 00:14:14.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-02 00:20:58.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-03 02:21:23.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-03 23:28:05.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-04 23:17:36.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-05 23:44:43.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-06 21:39:37.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-07 21:44:40.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-09 01:34:50.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-10 05:54:30.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-11 00:22:42.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-12 01:13:23.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-12 22:44:28.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-14 03:01:33.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-16 01:10:56.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-17 00:08:48.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-17 23:16:08.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-18 22:04:56.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-20 01:45:47.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-21 03:11:19.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-22 00:50:42.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-24 22:52:08.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-25 23:30:19.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-26 21:21:32.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-27 21:18:05.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-29 00:12:41.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-30 01:28:29.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-05-30 20:53:44.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-01 00:09:00.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-01 22:35:18.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-04 00:46:17.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-04 22:58:03.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-05 22:55:20.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-07 01:09:07.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-08 00:15:29.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-09 00:50:43.000	traiongr
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection		2024-06-10 02:46:26.000	traiongr

Equipment Tag	Equipment Description	Check List	Check List Description	Inspection result	Unit	Date/Time	Report By
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-12 00:43:48.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-13 00:09:08.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-14 02:05:24.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-15 00:24:02.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-15 23:30:00.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-17 02:49:31.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-17 21:08:29.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-19 04:10:50.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-19 19:34:40.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-20 22:47:50.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-21 21:23:08.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-22 21:05:55.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-23 23:32:20.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-25 00:27:46.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-25 23:56:28.000	traiongr	
Sanitary Treatment	Overall Area	Clean&Tidy?	Clean	Single Selection	2024-06-27 05:55:39.000	traiongr	
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ภาคผนวก ข.6

ระเบียบปฏิบัติ เรื่อง การขนถ่ายวัตถุดิบและผลิตภัณฑ์


Movement/Dispatches			
 Plant 66 Ship Loading			
Prepared by:	Sawai Paena	Number:	HC-WI-PD-6020
Approved by:	Opas Waiyasatja	Revision:	3.
Low		Medium	
		High	

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Purpose

The purpose of this procedure is to outline the steps to be taken for the safe and efficient loading of petroleum products at the Marine Terminal.

System Information

Summary On specification product is exported from the SPRC Tank Farm storage tanks, which are duplicated for all grades. The products are pumped to the Berth metering skids and Marine loading arms at the Products Pier, while LPG is exported via the LPG Pier. The Distributed Control System (DCS) provides automatic MOV line up and sequencing, and pump start for all export operations except Tug Berth bunkering. The ship loading operation is started by the Marine DCS using the AMB Metering system.

Roles and Responsibility Deviation from the procedure must be stopped and informed a line supervisor or line manager, concerned people for a solution prior to executing this procedure.

- Marine DCS (DCS)** : To coordinate with Loading Master and Marine Operator for carry out of Ship loading with a safety,efficiency and meet the target standard operating practice.
- Marine Operator(OP)** : To coordinate with Loading Master and Marine DCS for carry out of Ship loading with a safety,efficiency and meet the target standard operating practice.
- Loading Master(LM)** : To coordinate with Marine DCS and Berth Operator for carry out of Ship loading with a safety,efficiency and meet the target standard operating practice.
- Logistic Administrator(LA)**: Support to Marine DCS and Loading Master to submit loading documents to Excise officer,Perform shore tank figure calculation to compare to Excise officer,Ship figure and issue the loading documents.
- Shift Supervisor (SS)**: Support to Marine terminal for carry out of Ship loading with a safety,efficiency and meet the target standard operating practice.

Precautions Before cargo loading operations the Loading Master, Marine DCS and Berth Operator must comply with the conditions and responsibilities as described in the following procedures, which form an integral part of the loading operation:

- HC-WI-PD-6018 Plant 66 Mooring Arrangements.
- HC-WI-PD-6022 Plant 66 Loading Arm Connection and Disconnection.
- HC-WI-PD-6019 Plant 66 Ship Ballasting and Deballasting.
- HC-WI-PD-6017 Plant 66 Tank inspection Inert ,Non inerted Vessel Functions.
- HC-WI-PD-6136 Plant 66 Product Sampling.
- HC-WI-PD-6048 Plant 66 Issuing Bill of lading.

Only the vessel that have the safeguarding are met the terminal requirement's criteria is allow to loading product 2 grades at same time. (MOC8769)

Requirement for preventing product overflow:

1. All ship's tank must be configured with High level alarm, which setting alarm do not over 98% of tank.
2. There are auto gauge or MMC for monitoring oil level while cargo loading for all receiving tank.
3. There are sufficient stand by person all operation time (5 persons/2 grades)



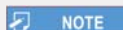
WARNING

Requirement for preventing product contaminate:

1. The separate ship's manifold could be connect to 2 loading arms.
2. Ship's manifold, line, ship's tank, PVV are fully segregated.

Load product 2 grades (Mogas and Diesel) at the same time.

Loading Master and Marine DCS must be confirming the step of cargo to be loading with ship Master/Officer as these.



NOTE

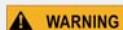
- Start loading cargo 1st grade with initial rate, the flow rate does not exceed 1 m/sec.
- Finish loading 1st foot and then increase flow rate to maximum as agreement.
- Start loading cargo 2nd grade with initial rate, the flow rate does not exceed 1 m/sec.
- Finish loading 1st foot and then increase flow rate to maximum as agreement.



WARNING

Agreement of loading plan should be the small batch is the first grade to start loading.

Do not allow to start loading the 2nd grade if the 1st grade did not complete loading 1st foot.



WARNING

If loading 2 products at same time, the step for topping off must be manage to be done in the difference time. If necessary he/she will ask for a reduction in transfer rate.


Prerequisites


- Marine DCS must be updated estimated time of arrival for the vessel from the Shipping Agents

Assess the ship's berthing prospects with regard to:



- Lay can
- Clearance from the Planner
- Product availability
- Berth availability
- Establish VHF radio contact with the vessel and inform the Ship's Master berthing prospects. Discuss the criteria contained in section 5 of the Marine Terminal Information and Regulations with the Ship's Master to assist in effective planning of the vessel's stay alongside.
- Coordinate with Ship Agents, Map Ta Put port control and Map Ta Put pilot for ship 's anchorage area.
- Coordinate with SC Management and Map Ta Put pilot while ship mooring activity.
- Allocate the ship to a suitable berth having due regard to its overall length and expected sailing draft, position of manifold connections relative to the shore loading arms, loading arm operating envelopes and other operations.
- At regular intervals throughout each shift, update the Shift Supervisor, Tank Farm DCS and Loading Master of all planned shipping movements.


Detailed Activities

Who	Step	Action	Check
1. Mooring Requirements			
LM OP	1.1	Monitor ship alongside at berth by refer to HC-WI-PD-6018 Plant 66 Mooring Arrangement Procedure for safe berthing and mooring.	<input type="checkbox"/>
LM OP	1.2	Perform that a safe means of access has been provided before boarding the ship.	<input type="checkbox"/>
 CAUTION Gangways shall have side rails; a lifebuoy and a safety net rigged, and shall be adequately illuminated during the hours of darkness.			
END OF TASK			

Who	Step	Action	Check
2. Loading Arm Connection			
 NOTE Connect loading arm by refer to HC-WI-PD-6022 Plant 66 Loading Arm Connection and Disconnection.			
OP	2.1	Verify loading arm gasket is good condition and all couplers are tighten.	<input type="checkbox"/>
END OF TASK			



Who	Step	Action	Check
3. Ship Shore Safety Checklist			
LM	3.1	Hand over a copy of the Marine Terminal Information and Regulations to the Ship's Master.	<input type="checkbox"/>
LM	3.2	Coordinate with Ship's Chief Officer or Responsible Officer Conduct a joint safety inspection of the vessel.	<input type="checkbox"/>




Who	Step	Action	Check				
<p>Only the vessel that have the safeguarding are met the terminal requirement's criteria is allow to loading product 2 grades at same time. (MOC8769)</p> <p>Requirement for preventing product overflow:</p> <p>1. All ship's tank must be configured with High level alarm, which setting alarm do not over 98% of tank.</p> <p> WARNING</p> <p>2. There are auto gauge or MMC for monitoring oil level while cargo loading for all receiving tank.</p> <p>3. There are sufficient stand by person all operation time (5 persons/2 grades)</p> <p>Requirement for preventing product contaminate:</p> <p>1. The separate ship's manifold could be connect to 2 loading arms.</p> <p>2. Ship's manifold, line, ship's tank, PVV are fully segregated.</p>							
LM	3.3	<table><tr><th>IF</th><th>THEN</th></tr><tr><td>The safeguarding of that vessel does not meet the terminal requirement for loading 2 grades at the same time.</td><td>Agree to loading one grade at a time.</td></tr></table>	IF	THEN	The safeguarding of that vessel does not meet the terminal requirement for loading 2 grades at the same time.	Agree to loading one grade at a time.	<input type="checkbox"/>
IF	THEN						
The safeguarding of that vessel does not meet the terminal requirement for loading 2 grades at the same time.	Agree to loading one grade at a time.						
LM	3.4	<p>Coordinate to Ship's Chief Officer following to documents, contained in the Ship/Shore safety checklist and Marine Terminal Information and Regulations , are discussed, agreed, action and signed by the Ship's Chief' Officer or Responsible Officer.</p> <ul style="list-style-type: none">◦ Ship/Shore Safety Checklist.◦ Cargo Information.◦ Cargo loading plan and Dye injections - if applicable.◦ LPG Safety Checklist - LPG ship's only.◦ LPG Vessel Information - LPG ship's only.◦ Agreement for Ballast/Purging/Crude Oil Washing Operations Onboard a Vessel Alongside - if applicable.	<input type="checkbox"/>				
<p> NOTE</p> <p>If there is any deviation from the agreed conditions, as stated in the above mentioned documents, loading operations are to be halted. The loading will not resume again until the conditions are agreed, in writing, between the Loading Master and Ship's Chief Officer or Responsible Officer.</p>							
LM	3.5	<p>Coordinate with the Ship's Chief Officer in writing, the location of two approved Smoking Rooms. Smoking Room notices are to be displayed in prominent positions.</p>	<input type="checkbox"/>				

Who	Step	Action	Check
<div>  WARNING </div> <p>The nominated rooms shall be located abaft the cargo tanks, and shall not have doors or ports that open directly on to the cargo deck. In the designated smoking places all ports shall be kept closed. Doors into passageways shall be kept closed except when in use.</p>			
LM	3.6	Verify that the ship's crew are also aware of the design and operating sequence of the Powered Emergency Release Coupling (PERC) and the working envelope of the LPG loading arm.	<input type="checkbox"/>
LM	3.7	Verify that the flow rates entered into the AMB system do not exceed the maximum flow rate as detailed in the loading Rate Sheet.	<input type="checkbox"/>
END OF TASK			

Who	Step	Action	Check
4. Emergency Procedures and Communications			
LM	4.1	Coordinate with Beth Operator and Ship's Chief Officer are to identify the location of ship and shore emergency stop button(s) agree to emergency stop procedures. <ul style="list-style-type: none"> Procedure: During loading, press emergency stop button, which will close shore valves. Ship's valves may then be closed. 	<input type="checkbox"/>
LM	4.2	Coordinate to Ship's Chief Officer make clarify the contents of the Fire Notice and Actions in the Event of an Emergency section contained in the Ship/Shore Safety Checklist and Marine Terminal Information and Regulations .	<input type="checkbox"/>
LM	4.3	Verify that the Fire Notice is prominently displayed on board in an agreed location.	<input type="checkbox"/>
LM	4.4	Verify that a secondary means of escape is provided from the main deck. (Normally a pilot ladder over the outboard side of the vessel or a lifeboat lowered to the embarkation deck.)	<input type="checkbox"/>
OP	4.5	Perform that the berth telephone is working well.	<input type="checkbox"/>
LM	4.6	Hand over the shore UHF radio to the Ship's Chief Officer and obtain a signed copy of the written receipt as documented in the Ship/Shore Safety Checklist.	<input type="checkbox"/>
LM	4.7	Coordinate to Ship's Chief Officer and agreement on call signs and working channels on UHF and/or marine VHF radios.	<input type="checkbox"/>




Who	Step	Action	Check
LM	4.8	Verify with the Marine DCS that the radio functions correctly.	<input type="checkbox"/>
LM	4.9	Perform to Fire Monitor position by directing to ship's manifold ready to use when emergency case.	<input type="checkbox"/>
END OF TASK			



Who	Step	Action	Check
5. Deballasting			
<div>  NOTE </div> <p>Refer to HC-WI-PD-6019 Plant 66 Ship Ballasting and Deballasting.</p>			
<div>  ENVIRONMENT </div> <p>Berth Operator must be monitor the sea water surface around the ship for oil pollution whlie ship Deballasting, when found abnormal conditions notify to Marine DCS and Loading Master immediatly.</p>			
END OF TASK			



Who	Step	Action	Check
6. Tank Inspection			
<div>  NOTE </div> <p>Refer to HC-WI-PD-6017 Plant 66 Tank inspection Inert, Non inerted Vessel Functions.</p>			
<div>  ENVIRONMENT </div> <p>Ensure the ship's sea valves and overboard discharges valves in the closed position. There is no requirement to seal overboard discharge valves on ship's operating a totally segregated permanent ballast system.</p>			
<div>  WARNING </div> <p>Follow the ship's pump room confined space entry procedure. Ensure that the pump room atmosphere is checked for oxygen deficiency and flammability, using SPRC gas and oxygen analyzers, and is continuously ventilated during entry. Adequate lighting shall be provided and a safetyman shall standby at the top of the pump room during the period of entry.</p>			
END OF TASK			


Who	Step	Action	Check
7. Product Routing			
LM	7.1	Discuss the ship plan loading with Marine DCS and Berth Operator.	<input type="checkbox"/>
OP	7.2	Verify that all the relevant drains, on the meter skid to be use, are closed.	<input type="checkbox"/>
OP	7.3	Monitor ship/shore conditions during the loading operation. <ul style="list-style-type: none"> ◦ Loading arm for leakage. ◦ Loading arm loading pipe for leakage. ◦ Ship mooring lines adjust in good condition. ◦ Sea water around ship to ensure no product leak. ◦ Ship/Shore access proper adjust in good condition. 	<input type="checkbox"/>
END OF TASK			


Who	Step	Action	Check
8. Loading Operation			
OP	8.1	Berth Operator's Responsibilities. <ul style="list-style-type: none"> ◦ Perform the cargo Loading valve correctly line-up. ◦ Pre berth check before call ship alongside to minimize delays at berth. ◦ Monitor the water surface around the vessel for oil pollution during deballasting and loading operations. ◦ Perform that the loading arms are keep properly adjusted. ◦ Coordinate with ship's personnel involved in cargo operations. ◦ Monitoring of moorings ropes. ◦ Control the activities of personnel on the berth including off-duty members of the ship's crew. ◦ Preventing the unauthorized approach by other ships. ◦ Perform the immediate raising of the alarm and shutdown of cargo handling equipment in the event of an incident. ◦ Prevent minor incidents escalating into hazardous situations. 	<input type="checkbox"/>

Who	Step	Action	Check
LM	8.2	Loading Master Responsibilities. <ul style="list-style-type: none"> ◦ Coordinate with Marine DCS to controlling the flow rate to the vessel as reach target as agreemnet while loading operations. ◦ Conduct safety inspections of vessels alongside involved in cargo operations twice per shift. Record the time of each inspection in ship/shore safety checklist. ◦ Coordinate all shipping movements to and from the Marine Terminal. ◦ Monitor the loading flow rates and ensure that the agreed rates are not exceeded. per the Cargo Plan. ◦ Coordinate with I/E when have any proving operations as required. ◦ Update Shipping Timesheet for the vessel. ◦ Coordinate with the Tank Farm DCS to expected finishing times, line wash requirements etc. ◦ Coordinate with third party surveyor's in order to minimize shipping delays. ◦ Coordinate with the Shipping Agents, Harbour Authorities and other interested parties. 	<input type="checkbox"/>
Agreement of loading plan should be the small batch is the first grade to start loading. <div>  WARNING </div> Do not allow to start loading the 2nd grade if the 1st grade did not complete loading 1st foot.			
DCSA6 LM	8.3	Load product 2 grades (Mogas and Diesel) at the same time. Loading Master and Marine DCS must be confirming the step of cargo to be loading with ship Master/Officer as these. <ul style="list-style-type: none"> ◦ Start loading cargo 1st grade with initial rate, the flow rate does not exceed 1 m/sec. ◦ Finish loading 1st foot and then increase flow rate to maximum as agreement. ◦ Start loading cargo 2nd grade with initial rate, the flow rate does not exceed 1 m/sec. ◦ Finish loading 1st foot and then increase flow rate to maximum as agreement. 	<input type="checkbox"/>
If loading 2 products at same time, the step for topping off must be manage to be done in the differece time. If necessary he/she will ask for a reduction in transfer rate. <div>  WARNING </div>			
Cargo operations include the loading, discharging and transfer of petroleum and chemicals, ballasting, deballasting, bunkering, tank cleaning, purging and gas freeing. <div>  NOTE </div>			
END OF TASK			

Who	Step	Action	Check
9. Loading Arm Disconnection			
 NOTE		Disconnect loading arm by refer to HC-WI-PD-6022 Plant 66 Loading Arm Connection and Disconnection.	
 ENVIRONMENT		To prevent product spillage during disconnect loading arm activities. Must be verify no product and no pressure remain in loading arm before disconnecting.	
END OF TASK			

Who	Step	Action	Check
10. Ullaging and sampling			
<div> WARNING</div>		A relaxation time of 30 minutes should be allowed from the time of completing loading before the introduction of any earthed metallic objects into ship's tanks, for static accumulator oils.	
<div> NOTE</div>		Coordinate with Ship's Deck Officer to witness water dips and ullaging of the ship's tanks by refer to HC-WI-PD-6136 Plant 66 Product Sampling.	
END OF TASK			

Who	Step	Action	Check
11. Shipping Documents			
 NOTE		Logistic Administrator(LA) issue loading documents by refer to HC-WI-PD-6048 Plant 66 Issuing Bill of lading, and Loading Master must be verify all of detail in BOL, Deliver the loading documents onboard to Master signed and received.	
END OF TASK			

Who	Step	Action	Check
12. Ship Sailing			
<div> NOTE</div>		Verify shore equipments (shore gangway, fender) for any defected when ship unmooring from berth. refer to HC-WI-PD-6018 Plant 66 Mooring Arrangements. Procedure operations "7.1.1 Check the berth fenders for any damage, which may have been caused by the ship before the arrival of the next vessel. This is necessary as we have no way of proving fault for damage if the next vessel is alongside before the fender checks are done." for safe unmooring.	
END OF TASK			



Appendix

- N/A



Definitions

- N/A



References



Amendment List

Below is a list of changes between the previous and the current revision of this document.

Step/Section

Reason for Change

(Changed) - Update operation activities in Step8.3 and add warning for loading product 2 grades at same time, as per MOC8769

Distribution List

Copy No.	Controller/Holder	Location
00	Electronic Controller	SmartProcedures

ภาคผนวก ข.7

แบบรายงานปริมาณสารอินทรีย์ระเหยง่ายจากแหล่งกำเนิด (รว.๓/๑)



STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

เลขทะเบียนนิติบุคคล 0107555000155

SPRC-QS-OUT 24-1620

18 กรกฎาคม 2567

เรื่อง ขอนำส่งรายงานผลการตรวจวัดการรั่วซึมของสารอินทรีย์ระเหยง่ายจากอุปกรณ์และการซ่อมแซม
อุปกรณ์ในท่าเทียบเรือ

เรียน ผู้อำนวยการสำนักงานท่าเรืออุตสาหกรรมมาบตาพุด

สิ่งที่ส่งมาด้วย แบบรายงานผลการตรวจวัดการรั่วซึมของสารอินทรีย์ระเหยง่ายจากอุปกรณ์และการ
ซ่อมแซมอุปกรณ์ในท่าเทียบเรือประจำปี 2567 ครั้งที่ 1

ตามหนังสือที่อ้างถึง การนิคมอุตสาหกรรมแห่งประเทศไทย ให้บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง
จำกัด (มหาชน) จัดส่งแบบรายงานผลการตรวจวัดการรั่วซึมของสารอินทรีย์ระเหยง่ายจากอุปกรณ์และการ
ซ่อมแซมอุปกรณ์ในท่าเทียบเรือ นั้น

บริษัทฯ ขอนำส่งรายงานฯ ดังกล่าว ตามสิ่งที่ส่งมาด้วย หากต้องการข้อมูลเพิ่มเติมประการใด กรุณา
ประสานงานกับนางสาวศุภกวีชีชา แก่กล้า ผู้เชี่ยวชาญด้านสิ่งแวดล้อม โทร. 038-699277 โทรสาร 038-
699999

ขอแสดงความนับถือ



รองกรรมการผู้จัดการใหญ่ ด้านปฏิบัติการเพื่อความเป็นเลิศ

แบบรายงานผลการตรวจวัดการรั่วซึมของสารอินทรีย์ระเหยจากอุปกรณ์

และการซ่อมแซมอุปกรณ์ในโรงงานอุตสาหกรรม

(๑ แบบรายงานต่อ ๑ โรงงาน)

ประจำปี พ.ศ. 2567..... ครั้งที่ 1.....

ประจำช่วงเดือน มกราคม..... พ.ศ. 2567..... ถึง มิถุนายน..... พ.ศ. 2567.....

รายละเอียดเกี่ยวกับโรงงาน

ชื่อโรงงาน ทำเทียมเรือ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน).....ทะเบียนโรงงานเลขที่ น.49-1/2537-ณพ.....

สถานที่ตั้งโรงงาน เลขที่ 1 ถนน โอ-3บี นิคมอุตสาหกรรมมาบตาพุด ตำบลมาบตาพุด อำเภอเมือง จังหวัดระยอง.....

ปริมาณสารอินทรีย์ระเหยรวมที่มีหรือใช้ในกระบวนการผลิต..... 8,067,946.....ตันต่อปี

ประเภทอุปกรณ์	สถานะสารอินทรีย์ระเหย	จำนวนอุปกรณ์ทั้งหมดของโรงงาน		จำนวนอุปกรณ์ที่ต้องตรวจวัดการรั่วซึมในรอบการรายงานครั้งนี้			ปริมาณสารอินทรีย์ระเหยรวมในรูปมีเทนที่รั่วซึมจากอุปกรณ์ที่ตรวจวัดการรั่วซึมทั้งหมดในรอบการรายงานครั้งนี้ (กิโลกรัม)
		จำนวนอุปกรณ์ที่ต้องตรวจวัดการรั่วซึม	จำนวนอุปกรณ์ที่ได้รับ การยกเว้นไม่ต้องตรวจวัดการรั่วซึม	จำนวนอุปกรณ์ที่ตรวจวัดการรั่วซึมทั้งหมด	จำนวนอุปกรณ์ที่มีผลการตรวจวัดเกินจากเกณฑ์การควบคุมการรั่วซึม	จำนวนอุปกรณ์ที่ได้รับการซ่อมแซมให้อยู่ในเกณฑ์การควบคุมการรั่วซึม	
		(จุด)	(จุด)	(จุด)	(จุด)	(จุด)	
วาล์ว (Valves)	แก๊ส	93	176	23	0	0	0.78
	ของเหลว	451	870	78	0	0	2.66
ปั๊ม (Pumps)	ของเหลว	12	0	5	0	0	0.52
อุปกรณ์ลดความดัน (Pressure Relief Devices)	แก๊ส	0	0	0	0	0	0
	ของเหลว	0	0	0	0	0	0
เครื่องอัดอากาศ (Compressors)	ทั้งหมด	0	0	0	0	0	0
ข้อต่อหรือหน้าแปลน (Connectors or Flanges)	ทั้งหมด	1,949	519	317	0	0	0.43
ท่อส่งปลายเปิด (Open-Ended Lines)	ทั้งหมด	4	5	0	0	0	0
จุดเก็บตัวอย่างสารเคมี (Sampling Connections)	ทั้งหมด	7	0	0	0	0	0
อุปกรณ์ที่ใช้กวนหรือผสมของเหลว (Agitators or Mixers)	ทั้งหมด	0	0	0	0	0	0

(ลงชื่อ) ...
(.. ..)

ผู้จัดการสิ่งแวดล้อมหรือผู้ได้รับอนุญาตประกอบกิจการโรงงาน

ภาคผนวก ข.8

แผนการตรวจสอบ/บำรุงรักษา และการเปลี่ยนแผ่นกรอง
ของระบบควบคุมไอระเหยจากท่อระบายของถังเก็บก๊าซยางมะตอย

RE: Plan to shutdown Asphalt odor control system.

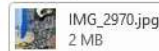


Phamphat Baima

To: Kannakrid Pulasatammung; #Marine_Terminal

Cc: Phutawan Banjongpipatkul; Noppol Kunchai; Panuwat Dayangyut; Opas Waiyasatja; Sarayut Jantima; Pruchyamas Punsang; PD Shift Supervisors; Worawut Boonchuen; Nantaporn Pipithvittaya; Apisak Rongsungnern; s.wannapha@uchemgroup.com; 'Chuwong Supasitthumrong'; +2 others

You replied to this message on 08/02/2024 07:28.



I would like to inform that update for job replace the Activated carbon of 67C205 by U-Prochem. **Complete (07/02/24)**
Now restart Asphalt odor control system back to normal condition. **Complete (Please monitor LEL,H2S)**
And next step supply hot oil to 67D201 and 67D202 for heating up as normal **Night shift**

please see details (replace ATC in the day shift) as follows.

1).Connect and used temporary filter.



2). U-Prochem preparation device and new activated carbon package to replace 67-C205



3). open 67C205 to change filter.



4).Replace for new activated carbon to 67C205 .



5).Close 67C205 , Assemble 67C205 back to normal condition and start blower for leak test.

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Equipment Tag	Equipment Description	Check List	Check List Description	Inspection result	Unit	Notes	Date/Time	Report By
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-01 20:07:36.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-02 07:50:08.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-02 20:59:45.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-03 12:31:18.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-03 22:59:46.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-04 09:02:08.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-04 22:33:59.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-05 13:15:42.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-05 22:01:10.000	tewaratp
Overall area	Air Blower A	Overall area		On Service	Single Selection		2024-01-06 14:34:22.000	tewaratp
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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On Service	Single Selection		2024-03-07 21:09:50.000	tewaratp
On Service	Single Selection		2024-03-22 10:41:09.000	tewaratp
On Service	Single Selection		2024-03-25 22:39:17.000	tewaratp
On Service	Single Selection		2024-03-19 15:01:54.000	tewaratp
On Service	Single Selection		2024-03-26 08:28:28.000	tewaratp
On Service	Single Selection		2024-03-13 22:47:00.000	tewaratp
On Service	Single Selection		2024-03-21 22:11:45.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
On Service	Single Selection		2024-03-30 15:09:39.000	tewaratp
On Service	Single Selection		2024-03-24 12:01:15.000	tewaratp
On Service	Single Selection		2024-03-18 23:55:04.000	tewaratp
On Service	Single Selection		2024-03-24 22:47:45.000	tewaratp
On Service	Single Selection		2024-03-29 08:24:02.000	tewaratp
On Service	Single Selection		2024-03-26 21:37:28.000	tewaratp
On Service	Single Selection		2024-03-23 02:05:09.000	tewaratp
On Service	Single Selection		2024-03-18 13:16:03.000	tewaratp
On Service	Single Selection		2024-03-27 22:30:59.000	tewaratp
On Service	Single Selection		2024-03-23 23:19:21.000	tewaratp
On Service	Single Selection		2024-03-29 20:12:18.000	tewaratp
On Service	Single Selection		2024-04-04 08:49:52.000	tewaratp
On Service	Single Selection		2024-03-30 20:53:45.000	tewaratp
On Service	Single Selection		2024-04-02 10:22:06.000	tewaratp
On Service	Single Selection		2024-03-27 13:51:45.000	tewaratp
On Service	Single Selection		2024-04-06 13:46:17.000	tewaratp
On Service	Single Selection		2024-03-23 11:17:25.000	tewaratp
On Service	Single Selection		2024-04-07 11:47:01.000	tewaratp
On Service	Single Selection		2024-04-06 13:01:34.000	tewaratp
On Service	Single Selection		2024-04-03 13:53:48.000	tewaratp
On Service	Single Selection		2024-03-28 15:26:26.000	tewaratp
On Service	Single Selection		2024-04-08 20:17:08.000	tewaratp
On Service	Single Selection		2024-03-29 00:38:03.000	tewaratp
On Service	Single Selection		2024-04-02 23:28:22.000	tewaratp
On Service	Single Selection		2024-04-06 23:23:27.000	tewaratp
On Service	Single Selection		2024-03-31 13:36:16.000	tewaratp
On Service	Single Selection		2024-04-05 20:03:49.000	tewaratp
On Service	Single Selection		2024-03-31 21:30:03.000	tewaratp
On Service	Single Selection		2024-04-04 01:52:33.000	tewaratp
On Service	Single Selection		2024-04-13 01:44:15.000	tewaratp
On Service	Single Selection		2024-04-09 13:55:15.000	tewaratp
On Service	Single Selection		2024-04-01 14:45:06.000	tewaratp
On Service	Single Selection		2024-04-02 01:10:24.000	tewaratp
On Service	Single Selection		2024-04-15 02:44:35.000	tewaratp
On Service	Single Selection		2024-04-10 23:49:06.000	tewaratp
On Service	Single Selection		2024-04-11 23:09:28.000	tewaratp
On Service	Single Selection		2024-04-02 01:03:54.000	tewaratp
On Service	Single Selection		2024-04-16 19:50:28.000	tewaratp
On Service	Single Selection		2024-04-09 21:32:08.000	tewaratp
On Service	Single Selection		2024-04-10 08:48:48.000	tewaratp
Run.	Multiple Selections		2024-06-11 09:19:50.000	tewaratp
Run.	Multiple Selections		2024-06-12 15:15:57.000	tewaratp
Stop.	Multiple Selections		2024-06-13 12:47:03.000	tewaratp
Run.	Multiple Selections		2024-06-14 10:46:26.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections		2024-06-15 00:07:11.000	tewaratp
Run.	Multiple Selections		2024-05-05 10:41:39.000	tewaratp
Run.	Multiple Selections		2024-05-06 11:04:50.000	tewaratp
Run.	Multiple Selections		2024-05-07 11:28:12.000	tewaratp
Run.	Multiple Selections		2024-05-08 10:56:34.000	tewaratp
Stop.	Multiple Selections		2024-05-09 08:08:20.000	tewaratp
Run.	Multiple Selections		2024-05-09 21:34:41.000	tewaratp
Stop.	Multiple Selections		2024-04-15 02:44:39.000	tewaratp
Stop.	Multiple Selections		2024-04-13 01:44:25.000	tewaratp
Stop.	Multiple Selections		2024-04-13 08:10:28.000	tewaratp
Stop.	Multiple Selections		2024-04-13 22:52:44.000	tewaratp
Stop.	Multiple Selections		2024-04-14 08:09:05.000	tewaratp
Run.	Multiple Selections		2024-01-01 20:07:40.000	tewaratp
Stop.	Multiple Selections		2024-01-02 07:50:12.000	tewaratp
Run.	Multiple Selections		2024-01-02 20:59:50.000	tewaratp
Stop.	Multiple Selections		2024-01-03 12:31:21.000	tewaratp
Stop.	Multiple Selections		2024-01-03 22:59:52.000	tewaratp
Stop.	Multiple Selections		2024-01-04 09:02:13.000	tewaratp
Stop.	Multiple Selections		2024-01-04 22:34:04.000	tewaratp
Stop.	Multiple Selections		2024-01-05 13:15:49.000	tewaratp
Stop.	Multiple Selections		2024-01-05 22:01:14.000	tewaratp
Stop.	Multiple Selections		2024-01-06 14:34:51.000	tewaratp
Stop.	Multiple Selections		2024-01-06 20:47:00.000	tewaratp
Stop.	Multiple Selections		2024-01-07 14:30:55.000	tewaratp
Stop.	Multiple Selections		2024-01-07 20:20:41.000	tewaratp
Stop.	Multiple Selections		2024-01-08 11:23:37.000	tewaratp
Stop.	Multiple Selections		2024-01-08 23:20:46.000	tewaratp
Stop.	Multiple Selections		2024-01-09 11:05:53.000	tewaratp
Stop.	Multiple Selections		2024-01-09 22:06:59.000	tewaratp
Run.	Multiple Selections		2024-01-10 09:50:18.000	tewaratp
Run.	Multiple Selections		2024-01-11 00:29:23.000	tewaratp
Run.	Multiple Selections		2024-01-11 13:20:32.000	tewaratp
Run.	Multiple Selections		2024-01-11 23:26:44.000	tewaratp
Stop.	Multiple Selections		2024-01-12 09:22:21.000	tewaratp
Stop.	Multiple Selections		2024-01-12 14:35:55.000	tewaratp
Stop.	Multiple Selections		2024-01-12 22:20:47.000	tewaratp
Stop.	Multiple Selections		2024-01-13 10:19:35.000	tewaratp
Stop.	Multiple Selections		2024-01-14 00:41:41.000	tewaratp
Stop.	Multiple Selections		2024-01-14 09:45:47.000	tewaratp
Stop.	Multiple Selections		2024-01-14 22:52:22.000	tewaratp
Stop.	Multiple Selections		2024-01-15 09:57:04.000	tewaratp
Run.	Multiple Selections		2024-01-15 22:42:56.000	tewaratp
Stop.	Multiple Selections		2024-01-16 15:40:06.000	tewaratp
Run.	Multiple Selections		2024-01-16 21:04:24.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections		2024-01-17 10:19:10.000	tewaratp
Stop.	Multiple Selections		2024-01-18 01:03:53.000	tewaratp
Stop.	Multiple Selections		2024-01-18 08:36:21.000	tewaratp
Stop.	Multiple Selections		2024-01-22 14:58:53.000	tewaratp
Stop.	Multiple Selections		2024-01-22 22:55:37.000	tewaratp
Stop.	Multiple Selections		2024-01-23 09:02:31.000	tewaratp
Run.	Multiple Selections		2024-01-24 00:45:16.000	tewaratp
Stop.	Multiple Selections		2024-01-24 13:51:21.000	tewaratp
Run.	Multiple Selections		2024-01-24 20:58:22.000	tewaratp
Stop.	Multiple Selections		2024-01-25 15:29:03.000	tewaratp
Run.	Multiple Selections		2024-01-25 21:53:34.000	tewaratp
Run.	Multiple Selections		2024-01-26 13:50:16.000	tewaratp
Stop.	Multiple Selections		2024-01-27 01:59:57.000	tewaratp
Run.	Multiple Selections		2024-01-27 11:21:51.000	tewaratp
Stop.	Multiple Selections		2024-01-27 23:10:51.000	tewaratp
Run.	Multiple Selections		2024-01-28 14:36:33.000	tewaratp
Stop.	Multiple Selections		2024-01-28 23:53:56.000	tewaratp
Run.	Multiple Selections		2024-01-29 10:29:34.000	tewaratp
Run.	Multiple Selections		2024-01-30 00:25:23.000	tewaratp
Run.	Multiple Selections		2024-01-30 10:32:03.000	tewaratp
Run.	Multiple Selections		2024-01-31 01:53:18.000	tewaratp
Stop.	Multiple Selections		2024-01-31 10:33:52.000	tewaratp
Run.	Multiple Selections		2024-01-31 20:13:45.000	tewaratp
Stop.	Multiple Selections		2024-02-01 14:44:35.000	tewaratp
Stop.	Multiple Selections		2024-02-24 01:50:37.000	tewaratp
Run.	Multiple Selections		2024-02-24 14:27:47.000	tewaratp
Stop.	Multiple Selections		2024-02-21 09:46:55.000	tewaratp
Stop.	Multiple Selections		2024-02-24 22:10:32.000	tewaratp
Stop.	Multiple Selections		2024-02-25 12:21:45.000	tewaratp
Stop.	Multiple Selections		2024-02-25 19:14:30.000	tewaratp
Stop.	Multiple Selections		2024-02-26 09:16:51.000	tewaratp
Run.	Multiple Selections		2024-02-26 20:34:21.000	tewaratp
Stop.	Multiple Selections		2024-02-27 11:09:57.000	tewaratp
Run.	Multiple Selections		2024-02-27 23:58:47.000	tewaratp
Stop.	Multiple Selections		2024-02-28 11:53:54.000	tewaratp
Run.	Multiple Selections		2024-02-28 22:23:52.000	tewaratp
Stop.	Multiple Selections		2024-02-29 09:48:22.000	tewaratp
Stop.	Multiple Selections		2024-02-29 23:31:30.000	tewaratp
Stop.	Multiple Selections		2024-03-01 14:24:40.000	tewaratp
Stop.	Multiple Selections		2024-03-01 21:52:05.000	tewaratp
Stop.	Multiple Selections		2024-03-01 22:07:03.000	tewaratp
Stop.	Multiple Selections		2024-03-01 22:54:35.000	tewaratp
Stop.	Multiple Selections		2024-02-10 14:43:52.000	tewaratp
Stop.	Multiple Selections		2024-03-02 11:05:04.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
Stop.	Multiple Selections	2024-02-20 11:50:47.000	tewaratp	
Stop.	Multiple Selections	2024-03-05 00:17:50.000	tewaratp	
Stop.	Multiple Selections	2024-03-05 13:56:23.000	tewaratp	
Stop.	Multiple Selections	2024-03-03 10:52:16.000	tewaratp	
Stop.	Multiple Selections	2024-03-04 00:42:32.000	tewaratp	
Stop.	Multiple Selections	2024-03-06 01:04:00.000	tewaratp	
Stop.	Multiple Selections	2024-03-04 16:24:51.000	tewaratp	
Stop.	Multiple Selections	2024-03-07 05:21:22.000	tewaratp	
Stop.	Multiple Selections	2024-03-07 21:09:55.000	tewaratp	
Stop.	Multiple Selections	2024-03-08 13:36:42.000	tewaratp	
Stop.	Multiple Selections	2024-03-09 13:17:46.000	tewaratp	
Stop.	Multiple Selections	2024-03-02 22:54:08.000	tewaratp	
Stop.	Multiple Selections	2024-03-09 21:11:46.000	tewaratp	
Stop.	Multiple Selections	2024-03-08 21:06:05.000	tewaratp	
Stop.	Multiple Selections	2024-03-10 14:30:02.000	tewaratp	
Stop.	Multiple Selections	2024-03-06 14:14:12.000	tewaratp	
Stop.	Multiple Selections	2024-03-07 14:00:24.000	tewaratp	
Stop.	Multiple Selections	2024-03-10 21:51:26.000	tewaratp	
Stop.	Multiple Selections	2024-04-05 14:24:55.000	tewaratp	
Stop.	Multiple Selections	2024-04-05 20:03:58.000	tewaratp	
Stop.	Multiple Selections	2024-04-06 13:46:21.000	tewaratp	
Stop.	Multiple Selections	2024-04-06 23:23:43.000	tewaratp	
Stop.	Multiple Selections	2024-04-07 11:47:04.000	tewaratp	
Stop.	Multiple Selections	2024-04-06 13:01:38.000	tewaratp	
Stop.	Multiple Selections	2024-04-07 23:01:42.000	tewaratp	
Stop.	Multiple Selections	2024-04-08 09:17:02.000	tewaratp	
Stop.	Multiple Selections	2024-04-08 20:17:23.000	tewaratp	
Run.	Multiple Selections	2024-04-09 13:55:18.000	tewaratp	
Stop.	Multiple Selections	2024-04-09 21:32:12.000	tewaratp	
Stop.	Multiple Selections	2024-04-10 08:48:53.000	tewaratp	
Stop.	Multiple Selections	2024-04-10 23:49:09.000	tewaratp	
Stop.	Multiple Selections	2024-04-11 09:51:12.000	tewaratp	
Stop.	Multiple Selections	2024-04-11 23:09:30.000	tewaratp	
Run.	Multiple Selections	2024-04-12 16:06:28.000	tewaratp	
Run.	Multiple Selections	2024-06-08 07:36:48.000	tewaratp	
Run.	Multiple Selections	2024-06-09 13:48:14.000	tewaratp	
Run.	Multiple Selections	2024-06-10 13:53:59.000	tewaratp	
Run.	Multiple Selections	2024-02-04 10:07:52.000	tewaratp	
Run.	Multiple Selections	2024-02-04 22:38:31.000	tewaratp	
Run.	Multiple Selections	2024-02-05 10:12:29.000	tewaratp	
Stop.	Multiple Selections	2024-02-06 00:33:11.000	tewaratp	
Run.	Multiple Selections	2024-02-06 11:02:01.000	tewaratp	
Stop.	Multiple Selections	2024-02-07 00:04:24.000	tewaratp	
Run.	Multiple Selections	2024-02-07 07:35:21.000	tewaratp	

Inspection result	Unit	Notes	Date/Time	Report By
Run.	Multiple Selections	2024-02-08 09:16:08.000	tewaratp	
Stop.	Multiple Selections	2024-02-08 09:52:17.000	tewaratp	
Run.	Multiple Selections	2024-02-07 23:09:41.000	tewaratp	
Run.	Multiple Selections	2024-02-08 21:20:02.000	tewaratp	
Stop.	Multiple Selections	2024-03-16 23:24:16.000	tewaratp	
Stop.	Multiple Selections	2024-03-20 15:04:13.000	tewaratp	
Run.	Multiple Selections	2024-03-21 00:57:48.000	tewaratp	
Run.	Multiple Selections	2024-03-17 10:01:57.000	tewaratp	
Run.	Multiple Selections	2024-05-28 13:29:09.000	tewaratp	
Run.	Multiple Selections	2024-05-29 13:29:31.000	tewaratp	
Run.	Multiple Selections	2024-05-30 12:58:43.000	tewaratp	
Run.	Multiple Selections	2024-06-01 15:19:04.000	tewaratp	
Run.	Multiple Selections	2024-06-02 13:57:21.000	tewaratp	
Run.	Multiple Selections	2024-06-02 23:37:00.000	tewaratp	
Run.	Multiple Selections	2024-06-03 10:24:35.000	tewaratp	
Run.	Multiple Selections	2024-06-04 09:08:15.000	tewaratp	
Run.	Multiple Selections	2024-05-31 13:41:02.000	tewaratp	
Run.	Multiple Selections	2024-05-27 10:19:09.000	tewaratp	
Run.	Multiple Selections	2024-06-05 14:12:53.000	tewaratp	
Stop.	Multiple Selections	2024-06-06 12:57:44.000	tewaratp	
Run.	Multiple Selections	2024-06-07 11:23:26.000	tewaratp	
Stop.	Multiple Selections	2024-03-17 22:39:46.000	tewaratp	
Stop.	Multiple Selections	2024-03-18 13:16:06.000	tewaratp	
Stop.	Multiple Selections	2024-03-21 13:40:15.000	tewaratp	
Stop.	Multiple Selections	2024-03-18 23:55:10.000	tewaratp	
Stop.	Multiple Selections	2024-03-19 15:01:56.000	tewaratp	
Stop.	Multiple Selections	2024-03-19 23:32:40.000	tewaratp	
Stop.	Multiple Selections	2024-03-22 10:41:18.000	tewaratp	
Stop.	Multiple Selections	2024-03-23 02:05:12.000	tewaratp	
Stop.	Multiple Selections	2024-03-23 11:17:32.000	tewaratp	
Stop.	Multiple Selections	2024-03-23 23:19:23.000	tewaratp	
Stop.	Multiple Selections	2024-03-24 12:01:20.000	tewaratp	
Run.	Multiple Selections	2024-03-21 22:11:49.000	tewaratp	
Run.	Multiple Selections	2024-03-25 16:18:19.000	tewaratp	
Stop.	Multiple Selections	2024-03-25 22:39:23.000	tewaratp	
Run.	Multiple Selections	2024-03-26 08:28:57.000	tewaratp	
Stop.	Multiple Selections	2024-03-26 21:37:38.000	tewaratp	
Stop.	Multiple Selections	2024-03-24 22:47:48.000	tewaratp	
Stop.	Multiple Selections	2024-03-27 13:51:48.000	tewaratp	
Stop.	Multiple Selections	2024-03-27 22:31:05.000	tewaratp	
Stop.	Multiple Selections	2024-03-28 15:26:28.000	tewaratp	
Stop.	Multiple Selections	2024-03-29 00:38:17.000	tewaratp	
Stop.	Multiple Selections	2024-03-29 08:25:34.000	tewaratp	
Stop.	Multiple Selections	2024-03-30 15:09:46.000	tewaratp	

Inspection result	Unit	Notes	Date/Time	Report By
Stop.	Multiple Selections	2024-03-31 13:36:20.000	tewaratp	
Stop.	Multiple Selections	2024-03-31 21:30:07.000	tewaratp	
Run.	Multiple Selections	2024-03-29 20:12:30.000	tewaratp	
Stop.	Multiple Selections	2024-04-02 01:10:30.000	tewaratp	
Stop.	Multiple Selections	2024-04-02 10:22:10.000	tewaratp	
Stop.	Multiple Selections	2024-03-30 20:53:50.000	tewaratp	
Stop.	Multiple Selections	2024-04-02 23:28:25.000	tewaratp	
Stop.	Multiple Selections	2024-04-02 01:03:57.000	tewaratp	
Stop.	Multiple Selections	2024-04-01 14:45:11.000	tewaratp	
Stop.	Multiple Selections	2024-04-03 13:53:59.000	tewaratp	
Stop.	Multiple Selections	2024-04-04 01:52:41.000	tewaratp	
Stop.	Multiple Selections	2024-04-04 08:49:56.000	tewaratp	
Stop.	Multiple Selections	2024-04-05 00:10:53.000	tewaratp	
Run.	Multiple Selections	2024-04-23 02:00:55.000	tewaratp	
Stop.	Multiple Selections	2024-04-23 10:44:18.000	tewaratp	
Stop.	Multiple Selections	2024-04-23 20:39:01.000	tewaratp	
Stop.	Multiple Selections	2024-04-24 14:24:35.000	tewaratp	
Run.	Multiple Selections	2024-04-24 21:26:49.000	tewaratp	
Stop.	Multiple Selections	2024-04-25 14:47:34.000	tewaratp	
Run.	Multiple Selections	2024-04-25 22:57:12.000	tewaratp	
Run.	Multiple Selections	2024-04-26 11:00:37.000	tewaratp	
Stop.	Multiple Selections	2024-03-10 14:28:17.000	tewaratp	
Run.	Multiple Selections	2024-04-27 21:09:15.000	tewaratp	
Run.	Multiple Selections	2024-04-28 09:13:02.000	tewaratp	
Stop.	Multiple Selections	2024-04-29 11:06:03.000	tewaratp	
Run.	Multiple Selections	2024-04-29 12:21:07.000	tewaratp	
Run.	Multiple Selections	2024-04-30 10:19:23.000	tewaratp	
Stop.	Multiple Selections	2024-05-01 08:00:39.000	tewaratp	
Run.	Multiple Selections	2024-04-26 15:10:15.000	tewaratp	
Run.	Multiple Selections	2024-05-02 00:09:03.000	tewaratp	
Stop.	Multiple Selections	2024-05-02 11:09:37.000	tewaratp	
Run.	Multiple Selections	2024-05-03 15:13:35.000	tewaratp	
Stop.	Multiple Selections	2024-02-09 13:19:25.000	tewaratp	
Run.	Multiple Selections	2024-02-09 23:27:29.000	tewaratp	
Stop.	Multiple Selections	2024-02-10 14:47:51.000	tewaratp	
Stop.	Multiple Selections	2024-02-10 23:54:05.000	tewaratp	
Stop.	Multiple Selections	2024-02-11 10:12:08.000	tewaratp	
Stop.	Multiple Selections	2024-02-11 22:57:03.000	tewaratp	
Stop.	Multiple Selections	2024-02-12 15:06:44.000	tewaratp	
Stop.	Multiple Selections	2024-02-12 21:37:49.000	tewaratp	
Stop.	Multiple Selections	2024-02-14 13:48:57.000	tewaratp	
Stop.	Multiple Selections	2024-02-13 14:41:20.000	tewaratp	
Stop.	Multiple Selections	2024-02-15 01:41:32.000	tewaratp	
Stop.	Multiple Selections	2024-02-15 09:52:06.000	tewaratp	

Inspection result	Unit	Notes	Date/Time	Report By
Stop.	Multiple Selections	2024-02-16 00:26:55.000	tewaratp	
Stop.	Multiple Selections	2024-02-16 13:46:47.000	tewaratp	
Stop.	Multiple Selections	2024-02-17 01:12:53.000	tewaratp	
Stop.	Multiple Selections	2024-02-17 13:53:32.000	tewaratp	
Run.	Multiple Selections	2024-02-17 21:49:10.000	tewaratp	
Stop.	Multiple Selections	2024-02-13 22:28:43.000	tewaratp	
Run.	Multiple Selections	2024-02-18 09:56:10.000	tewaratp	
Run.	Multiple Selections	2024-02-19 00:54:13.000	tewaratp	
Stop.	Multiple Selections	2024-02-19 12:51:17.000	tewaratp	
Stop.	Multiple Selections	2024-02-19 23:19:38.000	tewaratp	
Stop.	Multiple Selections	2024-02-20 21:22:43.000	tewaratp	
Stop.	Multiple Selections	2024-02-20 17:32:03.000	tewaratp	
Stop.	Multiple Selections	2024-02-21 22:15:21.000	tewaratp	
Stop.	Multiple Selections	2024-02-22 12:44:34.000	tewaratp	
Stop.	Multiple Selections	2024-02-22 21:46:46.000	tewaratp	
Stop.	Multiple Selections	2024-02-23 13:39:59.000	tewaratp	
Stop.	Multiple Selections	2024-03-11 09:54:41.000	tewaratp	
Stop.	Multiple Selections	2024-04-15 09:04:20.000	tewaratp	
Stop.	Multiple Selections	2024-04-15 21:26:28.000	tewaratp	
Stop.	Multiple Selections	2024-06-15 09:06:17.000	tewaratp	
Stop.	Multiple Selections	2024-06-16 10:27:02.000	tewaratp	
Run.	Multiple Selections	2024-06-17 09:58:44.000	tewaratp	
Stop.	Multiple Selections	2024-06-18 08:48:36.000	tewaratp	
Run.	Multiple Selections	2024-06-19 11:09:58.000	tewaratp	
Stop.	Multiple Selections	2024-06-20 12:57:36.000	tewaratp	
Run.	Multiple Selections	2024-06-21 14:35:38.000	tewaratp	
Run.	Multiple Selections	2024-06-22 16:06:03.000	tewaratp	
Run.	Multiple Selections	2024-06-23 15:15:49.000	tewaratp	
Stop.	Multiple Selections	2024-06-24 11:19:00.000	tewaratp	
Stop.	Multiple Selections	2024-06-25 11:19:20.000	tewaratp	
Stop.	Multiple Selections	2024-06-26 09:33:06.000	tewaratp	
Stop.	Multiple Selections	2024-06-27 11:35:24.000	tewaratp	
Stop.	Multiple Selections	2024-06-28 13:37:05.000	tewaratp	
Stop.	Multiple Selections	2024-06-29 11:03:24.000	tewaratp	
Stop.	Multiple Selections	2024-06-30 15:03:34.000	tewaratp	
Run.	Multiple Selections	2024-02-01 22:24:34.000	tewaratp	
Run.	Multiple Selections	2024-02-02 15:31:14.000	tewaratp	
Run.	Multiple Selections	2024-02-03 02:25:02.000	tewaratp	
Run.	Multiple Selections	2024-02-03 20:32:25.000	tewaratp	
Run.	Multiple Selections	2024-02-03 10:07:37.000	tewaratp	
Stop.	Multiple Selections	2024-05-10 16:15:42.000	tewaratp	
Run.	Multiple Selections	2024-05-11 14:10:27.000	tewaratp	
Run.	Multiple Selections	2024-05-12 09:55:43.000	tewaratp	
Run.	Multiple Selections	2024-05-13 16:01:26.000	tewaratp	

Inspection result	Unit	Notes	Date/Time	Report By	Inspection result	Unit	Notes	Date/Time	Report By
Normal.	Multiple Selections	2024-03-05 13:56:25.000	tewararp		Normal.	Multiple Selections	2024-02-28 11:53:55.000	tewararp	
Normal.	Multiple Selections	2024-03-06 01:04:00.000	tewararp		Normal.	Multiple Selections	2024-02-28 22:23:54.000	tewararp	
Normal.	Multiple Selections	2024-03-06 14:14:16.000	tewararp		Normal.	Multiple Selections	2024-02-29 09:48:23.000	tewararp	
Normal.	Multiple Selections	2024-03-07 05:21:23.000	tewararp		Normal.	Multiple Selections	2024-02-29 23:31:31.000	tewararp	
Normal.	Multiple Selections	2024-03-07 14:00:25.000	tewararp		Normal.	Multiple Selections	2024-03-01 14:24:40.000	tewararp	
Normal.	Multiple Selections	2024-03-07 21:09:56.000	tewararp		Normal.	Multiple Selections	2024-03-01 21:52:06.000	tewararp	
Normal.	Multiple Selections	2024-03-08 13:36:42.000	tewararp		Normal.	Multiple Selections	2024-03-01 22:07:04.000	tewararp	
Normal.	Multiple Selections	2024-03-09 13:17:47.000	tewararp		Normal.	Multiple Selections	2024-03-01 22:54:36.000	tewararp	
Normal.	Multiple Selections	2024-01-12 14:35:56.000	tewararp		Normal.	Multiple Selections	2024-02-10 14:43:32.000	tewararp	
Normal.	Multiple Selections	2024-01-12 22:20:48.000	tewararp		Normal.	Multiple Selections	2024-02-20 11:50:48.000	tewararp	
Normal.	Multiple Selections	2024-01-13 10:19:36.000	tewararp		Normal.	Multiple Selections	2024-03-02 11:05:05.000	tewararp	
Normal.	Multiple Selections	2024-01-14 00:41:42.000	tewararp		Normal.	Multiple Selections	2024-03-21 00:57:50.000	tewararp	
Normal.	Multiple Selections	2024-01-14 09:45:48.000	tewararp		Normal.	Multiple Selections	2024-03-21 13:40:16.000	tewararp	
Normal.	Multiple Selections	2024-01-14 22:52:23.000	tewararp		Normal.	Multiple Selections	2024-03-17 10:02:12.000	tewararp	
Normal.	Multiple Selections	2024-01-15 09:57:05.000	tewararp		Normal.	Multiple Selections	2024-03-17 22:39:47.000	tewararp	
Normal.	Multiple Selections	2024-01-15 22:42:57.000	tewararp		Normal.	Multiple Selections	2024-03-18 13:16:07.000	tewararp	
Normal.	Multiple Selections	2024-02-08 21:20:06.000	tewararp		Normal.	Multiple Selections	2024-03-18 23:55:11.000	tewararp	
Normal.	Multiple Selections	2024-02-09 13:19:28.000	tewararp		Normal.	Multiple Selections	2024-03-19 15:01:56.000	tewararp	
Normal.	Multiple Selections	2024-02-09 23:27:32.000	tewararp		Normal.	Multiple Selections	2024-03-19 23:32:41.000	tewararp	
Normal.	Multiple Selections	2024-02-10 14:47:52.000	tewararp		Normal.	Multiple Selections	2024-03-21 22:11:54.000	tewararp	
Normal.	Multiple Selections	2024-02-10 23:54:06.000	tewararp		Normal.	Multiple Selections	2024-03-22 10:41:20.000	tewararp	
Normal.	Multiple Selections	2024-02-11 10:12:08.000	tewararp		Normal.	Multiple Selections	2024-03-23 02:05:13.000	tewararp	
Normal.	Multiple Selections	2024-02-11 22:57:04.000	tewararp		Normal.	Multiple Selections	2024-03-23 11:17:34.000	tewararp	
Normal.	Multiple Selections	2024-02-12 15:06:46.000	tewararp		Normal.	Multiple Selections	2024-03-23 23:19:24.000	tewararp	
Normal.	Multiple Selections	2024-02-12 21:37:50.000	tewararp		Normal.	Multiple Selections	2024-03-24 12:01:21.000	tewararp	
Normal.	Multiple Selections	2024-02-13 14:41:21.000	tewararp		Normal.	Multiple Selections	2024-03-24 22:47:49.000	tewararp	
Normal.	Multiple Selections	2024-02-13 22:28:44.000	tewararp		Normal.	Multiple Selections	2024-03-25 16:18:20.000	tewararp	
Normal.	Multiple Selections	2024-02-14 13:48:46.000	tewararp		Normal.	Multiple Selections	2024-03-25 22:39:24.000	tewararp	
Normal.	Multiple Selections	2024-02-15 01:41:33.000	tewararp		Normal.	Multiple Selections	2024-03-26 08:28:59.000	tewararp	
Normal.	Multiple Selections	2024-02-15 09:52:07.000	tewararp		Normal.	Multiple Selections	2024-03-26 21:37:39.000	tewararp	
Normal.	Multiple Selections	2024-02-16 00:26:56.000	tewararp		Normal.	Multiple Selections	2024-03-27 13:51:49.000	tewararp	
Normal.	Multiple Selections	2024-02-16 13:46:48.000	tewararp		Normal.	Multiple Selections	2024-03-27 22:31:06.000	tewararp	
Normal.	Multiple Selections	2024-02-17 01:12:54.000	tewararp		Run.	Multiple Selections	2024-03-26 21:37:40.000	tewararp	
Normal.	Multiple Selections	2024-03-28 15:26:29.000	tewararp		Run.	Multiple Selections	2024-03-27 13:51:49.000	tewararp	
Normal.	Multiple Selections	2024-02-03 20:32:26.000	tewararp		Stop.	Multiple Selections	2024-03-26 08:29:03.000	tewararp	
Normal.	Multiple Selections	2024-02-04 10:07:53.000	tewararp		Run.	Multiple Selections	2024-03-28 15:26:30.000	tewararp	
Normal.	Multiple Selections	2024-02-04 22:38:32.000	tewararp		Run.	Multiple Selections	2024-03-25 22:39:25.000	tewararp	
Normal.	Multiple Selections	2024-02-05 10:12:30.000	tewararp		Run.	Multiple Selections	2024-03-24 22:47:49.000	tewararp	
Normal.	Multiple Selections	2024-02-06 00:33:12.000	tewararp		Stop.	Multiple Selections	2024-03-25 16:18:23.000	tewararp	
Normal.	Multiple Selections	2024-02-06 11:02:03.000	tewararp		Run.	Multiple Selections	2024-03-24 12:01:22.000	tewararp	
Normal.	Multiple Selections	2024-02-07 00:04:25.000	tewararp		Run.	Multiple Selections	2024-03-23 23:19:24.000	tewararp	
Normal.	Multiple Selections	2024-02-07 07:35:22.000	tewararp		Run.	Multiple Selections	2024-03-23 02:05:13.000	tewararp	
Normal.	Multiple Selections	2024-02-07 23:09:42.000	tewararp		Run.	Multiple Selections	2024-03-23 11:17:35.000	tewararp	
Normal.	Multiple Selections	2024-02-08 09:16:09.000	tewararp		Run.	Multiple Selections	2024-03-22 10:41:21.000	tewararp	

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections	2024-03-21 22:11:55.000	tewarotp	
Run.	Multiple Selections	2024-03-19 15:01:57.000	tewarotp	
Run.	Multiple Selections	2024-03-19 23:32:43.000	tewarotp	
Run.	Multiple Selections	2024-03-18 23:55:12.000	tewarotp	
Run.	Multiple Selections	2024-03-18 13:16:07.000	tewarotp	
Stop.	Multiple Selections	2024-03-17 10:02:41.000	tewarotp	
Run.	Multiple Selections	2024-03-17 22:39:48.000	tewarotp	
Run.	Multiple Selections	2024-03-21 13:40:17.000	tewarotp	
Run.	Multiple Selections	2024-03-21 00:57:51.000	tewarotp	
Run.	Multiple Selections	2024-02-27 11:09:59.000	tewarotp	
Stop.	Multiple Selections	2024-02-27 23:58:48.000	tewarotp	
Run.	Multiple Selections	2024-03-20 15:04:15.000	tewarotp	
Run.	Multiple Selections	2024-02-20 11:50:48.000	tewarotp	
Run.	Multiple Selections	2024-03-02 11:05:06.000	tewarotp	
Run.	Multiple Selections	2024-02-10 14:43:49.000	tewarotp	
Run.	Multiple Selections	2024-03-01 22:54:36.000	tewarotp	
Run.	Multiple Selections	2024-03-01 21:52:07.000	tewarotp	
Run.	Multiple Selections	2024-03-01 22:07:06.000	tewarotp	
Run.	Multiple Selections	2024-03-01 14:24:41.000	tewarotp	
Run.	Multiple Selections	2024-02-29 23:31:33.000	tewarotp	
Run.	Multiple Selections	2024-02-28 22:23:55.000	tewarotp	
Run.	Multiple Selections	2024-02-29 09:48:24.000	tewarotp	
Run.	Multiple Selections	2024-02-28 11:53:56.000	tewarotp	
Stop.	Multiple Selections	2024-02-07 23:09:43.000	tewarotp	
Stop.	Multiple Selections	2024-02-07 07:35:23.000	tewarotp	
Run.	Multiple Selections	2024-02-07 00:04:25.000	tewarotp	
Run.	Multiple Selections	2024-02-06 00:33:13.000	tewarotp	
Stop.	Multiple Selections	2024-02-06 11:02:04.000	tewarotp	
Stop.	Multiple Selections	2024-02-05 10:12:32.000	tewarotp	
Stop.	Multiple Selections	2024-02-04 22:38:33.000	tewarotp	
Stop.	Multiple Selections	2024-02-03 20:32:27.000	tewarotp	
Stop.	Multiple Selections	2024-02-04 10:07:53.000	tewarotp	
Stop.	Multiple Selections	2024-02-03 10:07:38.000	tewarotp	
Run.	Multiple Selections	2024-03-27 22:31:07.000	tewarotp	
Run.	Multiple Selections	2024-02-16 13:46:48.000	tewarotp	
Run.	Multiple Selections	2024-02-15 09:52:09.000	tewarotp	
Run.	Multiple Selections	2024-02-16 00:26:57.000	tewarotp	
Run.	Multiple Selections	2024-02-15 01:41:34.000	tewarotp	
Run.	Multiple Selections	2024-02-14 13:48:48.000	tewarotp	
Run.	Multiple Selections	2024-02-13 14:41:22.000	tewarotp	
Run.	Multiple Selections	2024-02-13 22:28:46.000	tewarotp	
Run.	Multiple Selections	2024-02-12 21:37:51.000	tewarotp	
Run.	Multiple Selections	2024-02-12 15:06:47.000	tewarotp	
Run.	Multiple Selections	2024-02-11 10:12:09.000	tewarotp	

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections	2024-02-11 22:57:05.000	tewarotp	
Run.	Multiple Selections	2024-02-10 23:54:08.000	tewarotp	
Run.	Multiple Selections	2024-02-10 14:47:52.000	tewarotp	
Run.	Multiple Selections	2024-02-09 13:19:27.000	tewarotp	
Stop.	Multiple Selections	2024-02-09 23:27:33.000	tewarotp	
Stop.	Multiple Selections	2024-02-08 21:20:22.000	tewarotp	
Run.	Multiple Selections	2024-02-08 09:52:20.000	tewarotp	
Stop.	Multiple Selections	2024-02-08 09:16:10.000	tewarotp	
Run.	Multiple Selections	2024-01-15 09:57:06.000	tewarotp	
Run.	Multiple Selections	2024-01-14 22:52:24.000	tewarotp	
Run.	Multiple Selections	2024-01-14 00:41:43.000	tewarotp	
Run.	Multiple Selections	2024-01-14 09:45:48.000	tewarotp	
Run.	Multiple Selections	2024-01-13 10:19:36.000	tewarotp	
Run.	Multiple Selections	2024-01-12 22:20:49.000	tewarotp	
Run.	Multiple Selections	2024-01-12 09:22:22.000	tewarotp	
Run.	Multiple Selections	2024-01-12 14:35:57.000	tewarotp	
Run.	Multiple Selections	2024-03-07 21:09:57.000	tewarotp	
Run.	Multiple Selections	2024-03-08 13:36:43.000	tewarotp	
Run.	Multiple Selections	2024-03-07 14:00:26.000	tewarotp	
Run.	Multiple Selections	2024-03-07 05:21:24.000	tewarotp	
Run.	Multiple Selections	2024-03-06 01:04:01.000	tewarotp	
Run.	Multiple Selections	2024-03-06 14:14:17.000	tewarotp	
Run.	Multiple Selections	2024-03-05 13:56:27.000	tewarotp	
Run.	Multiple Selections	2024-03-05 00:17:52.000	tewarotp	
Run.	Multiple Selections	2024-03-04 00:42:35.000	tewarotp	
Run.	Multiple Selections	2024-03-04 16:24:54.000	tewarotp	
Run.	Multiple Selections	2024-03-03 10:52:22.000	tewarotp	
Run.	Multiple Selections	2024-03-02 22:54:11.000	tewarotp	
Stop.	Multiple Selections	2024-01-11 23:26:46.000	tewarotp	
Stop.	Multiple Selections	2024-01-11 13:20:35.000	tewarotp	
Stop.	Multiple Selections	2024-01-11 00:29:20.000	tewarotp	
Stop.	Multiple Selections	2024-06-11 09:19:53.000	tewarotp	
Stop.	Multiple Selections	2024-06-12 15:16:02.000	tewarotp	
Run.	Multiple Selections	2024-06-13 12:47:06.000	tewarotp	
Stop.	Multiple Selections	2024-06-14 10:46:33.000	tewarotp	
Stop.	Multiple Selections	2024-06-15 00:07:13.000	tewarotp	
Run.	Multiple Selections	2024-02-17 13:53:34.000	tewarotp	
Stop.	Multiple Selections	2024-02-17 21:49:13.000	tewarotp	
Run.	Multiple Selections	2024-02-17 01:12:55.000	tewarotp	
Run.	Multiple Selections	2024-02-18 09:56:12.000	tewarotp	
Stop.	Multiple Selections	2024-05-05 10:41:42.000	tewarotp	
Stop.	Multiple Selections	2024-05-06 11:04:53.000	tewarotp	
Stop.	Multiple Selections	2024-05-07 11:28:14.000	tewarotp	
Run.	Multiple Selections	2024-05-08 10:56:41.000	tewarotp	

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections	2024-05-09 08:09:00.000	tewarotp	
Stop.	Multiple Selections	2024-05-09 21:34:42.000	tewarotp	
Run.	Multiple Selections	2024-05-10 16:15:44.000	tewarotp	
Stop.	Multiple Selections	2024-04-12 16:06:34.000	tewarotp	
Run.	Multiple Selections	2024-04-13 01:44:29.000	tewarotp	
Run.	Multiple Selections	2024-04-13 08:10:30.000	tewarotp	
Run.	Multiple Selections	2024-04-13 22:52:49.000	tewarotp	
Run.	Multiple Selections	2024-04-14 08:09:06.000	tewarotp	
Run.	Multiple Selections	2024-04-15 02:44:41.000	tewarotp	
Stop.	Multiple Selections	2024-02-26 20:34:22.000	tewarotp	
Run.	Multiple Selections	2024-02-26 09:16:54.000	tewarotp	
Run.	Multiple Selections	2024-02-25 12:21:47.000	tewarotp	
Run.	Multiple Selections	2024-02-25 19:14:33.000	tewarotp	
Run.	Multiple Selections	2024-02-24 22:10:47.000	tewarotp	
Run.	Multiple Selections	2024-02-24 01:50:38.000	tewarotp	
Run.	Multiple Selections	2024-02-24 14:27:55.000	tewarotp	
Run.	Multiple Selections	2024-02-23 13:40:03.000	tewarotp	
Run.	Multiple Selections	2024-02-22 21:46:48.000	tewarotp	
Run.	Multiple Selections	2024-02-21 22:15:23.000	tewarotp	
Run.	Multiple Selections	2024-02-22 12:44:37.000	tewarotp	
Stop.	Multiple Selections	2024-01-10 09:50:20.000	tewarotp	
Run.	Multiple Selections	2024-01-09 22:07:00.000	tewarotp	
Run.	Multiple Selections	2024-01-09 11:05:55.000	tewarotp	
Run.	Multiple Selections	2024-03-15 00:08:49.000	tewarotp	
Run.	Multiple Selections	2024-03-13 22:47:03.000	tewarotp	
Run.	Multiple Selections	2024-03-14 11:14:44.000	tewarotp	
Run.	Multiple Selections	2024-03-13 11:52:51.000	tewarotp	
Run.	Multiple Selections	2024-03-13 00:22:16.000	tewarotp	
Run.	Multiple Selections	2024-03-12 15:40:02.000	tewarotp	
Stop.	Multiple Selections	2024-03-11 23:36:54.000	tewarotp	
Run.	Multiple Selections	2024-03-11 09:54:42.000	tewarotp	
Stop.	Multiple Selections	2024-02-03 02:25:04.000	tewarotp	
Stop.	Multiple Selections	2024-02-02 15:31:15.000	tewarotp	
Stop.	Multiple Selections	2024-03-15 21:31:08.000	tewarotp	
Stop.	Multiple Selections	2024-03-16 11:47:08.000	tewarotp	
Stop.	Multiple Selections	2024-03-15 16:35:11.000	tewarotp	
Run.	Multiple Selections	2024-03-16 23:24:18.000	tewarotp	
Run.	Multiple Selections	2024-04-05 14:24:56.000	tewarotp	
Run.	Multiple Selections	2024-04-05 20:04:01.000	tewarotp	
Run.	Multiple Selections	2024-04-06 13:46:22.000	tewarotp	
Run.	Multiple Selections	2024-04-06 23:23:47.000	tewarotp	
Run.	Multiple Selections	2024-04-07 11:47:06.000	tewarotp	
Run.	Multiple Selections	2024-04-06 13:01:41.000	tewarotp	
Run.	Multiple Selections	2024-04-07 23:01:44.000	tewarotp	

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections	2024-04-08 09:17:07.000	tewarotp	
Run.	Multiple Selections	2024-04-08 20:17:40.000	tewarotp	
Run.	Multiple Selections	2024-04-09 13:55:19.000	tewarotp	
Run.	Multiple Selections	2024-04-09 21:32:13.000	tewarotp	
Run.	Multiple Selections	2024-04-10 08:48:57.000	tewarotp	
Run.	Multiple Selections	2024-04-10 23:49:10.000	tewarotp	
Run.	Multiple Selections	2024-04-11 09:51:14.000	tewarotp	
Run.	Multiple Selections	2024-04-11 23:09:32.000	tewarotp	
Stop.	Multiple Selections	2024-06-08 07:36:50.000	tewarotp	
Stop.	Multiple Selections	2024-06-09 13:48:16.000	tewarotp	
Stop.	Multiple Selections	2024-06-10 13:54:00.000	tewarotp	
Stop.	Multiple Selections	2024-05-28 13:29:12.000	tewarotp	
Stop.	Multiple Selections	2024-05-29 13:29:33.000	tewarotp	
Stop.	Multiple Selections	2024-05-30 12:58:46.000	tewarotp	
Stop.	Multiple Selections	2024-05-31 13:41:05.000	tewarotp	
Stop.	Multiple Selections	2024-06-01 15:19:05.000	tewarotp	
Stop.	Multiple Selections	2024-06-02 13:57:23.000	tewarotp	
Stop.	Multiple Selections	2024-06-02 23:37:03.000	tewarotp	
Stop.	Multiple Selections	2024-06-03 10:24:39.000	tewarotp	
Stop.	Multiple Selections	2024-05-27 10:19:11.000	tewarotp	
Stop.	Multiple Selections	2024-06-04 09:08:20.000	tewarotp	
Stop.	Multiple Selections	2024-06-05 14:12:57.000	tewarotp	
Run.	Multiple Selections	2024-06-06 12:57:52.000	tewarotp	
Stop.	Multiple Selections	2024-06-07 11:23:32.000	tewarotp	
Run.	Multiple Selections	2024-02-19 23:19:40.000	tewarotp	
Run.	Multiple Selections	2024-02-19 12:51:18.000	tewarotp	
Stop.	Multiple Selections	2024-02-19 00:54:15.000	tewarotp	
Run.	Multiple Selections	2024-03-31 21:30:08.000	tewarotp	
Run.	Multiple Selections	2024-03-31 13:36:24.000	tewarotp	
Run.	Multiple Selections	2024-03-30 15:09:50.000	tewarotp	
Run.	Multiple Selections	2024-03-30 20:53:52.000	tewarotp	
Run.	Multiple Selections	2024-02-21 09:46:57.000	tewarotp	
Run.	Multiple Selections	2024-02-20 17:32:05.000	tewarotp	
Run.	Multiple Selections	2024-02-20 21:22:45.000	tewarotp	
Run.	Multiple Selections	2024-04-02 10:22:11.000	tewarotp	
Run.	Multiple Selections	2024-04-01 14:45:13.000	tewarotp	
Run.	Multiple Selections	2024-04-02 01:10:31.000	tewarotp	
Run.	Multiple Selections	2024-04-02 23:28:26.000	tewarotp	
Run.	Multiple Selections	2024-04-02 01:03:59.000	tewarotp	
Run.	Multiple Selections	2024-04-03 13:54:01.000	tewarotp	
Run.	Multiple Selections	2024-04-04 01:52:38.000	tewarotp	
Run.	Multiple Selections	2024-04-04 08:49:58.000	tewarotp	
Run.	Multiple Selections	2024-04-05 00:10:54.000	tewarotp	
Stop.	Multiple Selections	2024-04-23 02:00:58.000	tewarotp	

Inspection result	Unit	N otes	Date/Time	Report By
Run.	Multiple Selections	2024-04-23 10:44:20.000	tewaratp	
Run.	Multiple Selections	2024-04-23 20:39:03.000	tewaratp	
Run.	Multiple Selections	2024-04-24 14:24:36.000	tewaratp	
Stop.	Multiple Selections	2024-04-24 21:26:52.000	tewaratp	
Run.	Multiple Selections	2024-04-25 14:47:35.000	tewaratp	
Stop.	Multiple Selections	2024-04-25 22:57:16.000	tewaratp	
Stop.	Multiple Selections	2024-04-26 11:00:40.000	tewaratp	
Run.	Multiple Selections	2024-03-10 14:28:18.000	tewaratp	
Stop.	Multiple Selections	2024-04-27 21:09:18.000	tewaratp	
Stop.	Multiple Selections	2024-04-28 09:13:05.000	tewaratp	
Stop.	Multiple Selections	2024-04-29 12:21:10.000	tewaratp	
Run.,Stop.	Multiple Selections	2024-04-29 11:06:06.000	tewaratp	
Run.	Multiple Selections	2024-04-30 10:19:26.000	tewaratp	
Stop.	Multiple Selections	2024-05-01 08:00:41.000	tewaratp	
Stop.	Multiple Selections	2024-04-26 15:10:22.000	tewaratp	
Stop.	Multiple Selections	2024-05-02 00:09:06.000	tewaratp	
Run.	Multiple Selections	2024-05-02 11:09:39.000	tewaratp	
Stop.	Multiple Selections	2024-05-03 15:13:38.000	tewaratp	
Stop.	Multiple Selections	2024-01-26 13:50:22.000	tewaratp	
Run.	Multiple Selections	2024-01-25 15:29:07.000	tewaratp	
Stop.	Multiple Selections	2024-01-25 21:53:36.000	tewaratp	
Stop.	Multiple Selections	2024-01-24 20:58:27.000	tewaratp	
Run.	Multiple Selections	2024-01-24 13:51:25.000	tewaratp	
Run.	Multiple Selections	2024-01-23 09:02:32.000	tewaratp	
Stop.	Multiple Selections	2024-01-24 00:45:20.000	tewaratp	
Run.	Multiple Selections	2024-01-22 22:55:46.000	tewaratp	
Run.	Multiple Selections	2024-01-22 14:58:54.000	tewaratp	
Run.	Multiple Selections	2024-01-18 01:03:55.000	tewaratp	
Run.	Multiple Selections	2024-01-18 08:36:24.000	tewaratp	
Run.	Multiple Selections	2024-01-17 10:19:12.000	tewaratp	
Stop.	Multiple Selections	2024-01-16 21:04:25.000	tewaratp	
Stop.	Multiple Selections	2024-01-15 22:42:58.000	tewaratp	
Run.	Multiple Selections	2024-01-16 15:40:08.000	tewaratp	
Stop.	Multiple Selections	2024-02-01 22:24:35.000	tewaratp	
Run.	Multiple Selections	2024-02-01 14:44:36.000	tewaratp	
Run.	Multiple Selections	2024-01-31 10:33:53.000	tewaratp	
Run.	Multiple Selections	2024-01-31 20:18:02.000	tewaratp	
Stop.	Multiple Selections	2024-01-31 01:53:21.000	tewaratp	
Stop.	Multiple Selections	2024-01-30 10:32:05.000	tewaratp	
Stop.	Multiple Selections	2024-01-29 10:29:36.000	tewaratp	
Stop.	Multiple Selections	2024-01-30 00:25:26.000	tewaratp	
Run.	Multiple Selections	2024-01-28 23:53:57.000	tewaratp	
Stop.	Multiple Selections	2024-01-28 14:36:35.000	tewaratp	
Stop.	Multiple Selections	2024-01-27 11:21:54.000	tewaratp	

Inspection result	Unit	Notes	Date/Time	Report By
Run.	Multiple Selections	2024-01-27 23:10:53.000	tewaratp	
Run.	Multiple Selections	2024-01-27 01:59:58.000	tewaratp	
Run.	Multiple Selections	2024-04-15 09:04:22.000	tewaratp	
Stop.	Multiple Selections	2024-04-15 21:26:36.000	tewaratp	
Run.	Multiple Selections	2024-04-16 09:54:33.000	tewaratp	
Stop.	Multiple Selections	2024-06-15 09:06:44.000	tewaratp	
Stop.	Multiple Selections	2024-06-16 10:27:07.000	tewaratp	
Stop.	Multiple Selections	2024-06-17 09:58:46.000	tewaratp	
Run.	Multiple Selections	2024-06-18 08:48:38.000	tewaratp	
Stop.	Multiple Selections	2024-06-19 11:10:01.000	tewaratp	
Stop.	Multiple Selections	2024-06-20 12:57:37.000	tewaratp	
Stop.	Multiple Selections	2024-06-21 14:35:44.000	tewaratp	
Stop.	Multiple Selections	2024-06-22 16:06:08.000	tewaratp	
Stop.	Multiple Selections	2024-06-23 15:15:59.000	tewaratp	
Run.	Multiple Selections	2024-06-24 11:19:03.000	tewaratp	
Run.	Multiple Selections	2024-06-25 11:19:24.000	tewaratp	
Run.	Multiple Selections	2024-06-26 09:33:08.000	tewaratp	
Run.	Multiple Selections	2024-06-27 11:35:26.000	tewaratp	
Run.	Multiple Selections	2024-06-28 13:37:06.000	tewaratp	
Run.	Multiple Selections	2024-06-29 11:03:25.000	tewaratp	
Run.	Multiple Selections	2024-06-30 15:03:36.000	tewaratp	
Stop.	Multiple Selections	2024-01-02 20:59:52.000	tewaratp	
Run.	Multiple Selections	2024-01-03 12:31:23.000	tewaratp	
Run.	Multiple Selections	2024-01-02 07:50:13.000	tewaratp	
Stop.	Multiple Selections	2024-01-01 20:07:42.000	tewaratp	
Run.	Multiple Selections	2024-01-08 11:23:40.000	tewaratp	
Run.	Multiple Selections	2024-01-08 23:20:48.000	tewaratp	
Run.	Multiple Selections	2024-01-07 20:20:43.000	tewaratp	
Run.	Multiple Selections	2024-01-06 20:47:02.000	tewaratp	
Run.	Multiple Selections	2024-01-07 14:30:57.000	tewaratp	
Run.	Multiple Selections	2024-01-06 14:34:45.000	tewaratp	
Run.	Multiple Selections	2024-01-05 22:01:16.000	tewaratp	
Run.	Multiple Selections	2024-01-04 22:34:06.000	tewaratp	
Run.	Multiple Selections	2024-01-05 13:15:51.000	tewaratp	
Run.	Multiple Selections	2024-01-04 09:02:14.000	tewaratp	
Run.	Multiple Selections	2024-01-03 22:59:55.000	tewaratp	
Run.	Multiple Selections	2024-03-29 00:38:11.000	tewaratp	
Run.	Multiple Selections	2024-03-29 08:25:36.000	tewaratp	
Run.	Multiple Selections	2024-03-29 20:44:59.000	tewaratp	
Stop.	Multiple Selections	2024-05-11 14:10:29.000	tewaratp	
Stop.	Multiple Selections	2024-05-12 09:55:47.000	tewaratp	
Stop.	Multiple Selections	2024-05-13 16:01:28.000	tewaratp	
Stop.	Multiple Selections	2024-05-14 17:19:25.000	tewaratp	
Stop.	Multiple Selections	2024-05-14 22:24:13.000	tewaratp	

Inspection result	Unit	Notes	Date/Time	Report By
Stop.	Multiple Selections	2024-05-15 16:40:03.000	tewaratp	
Run.	Multiple Selections	2024-05-16 14:18:35.000	tewaratp	
Stop.	Multiple Selections	2024-05-17 13:00:45.000	tewaratp	
Stop.	Multiple Selections	2024-05-18 11:43:12.000	tewaratp	
Stop.	Multiple Selections	2024-05-19 11:34:18.000	tewaratp	
Stop.	Multiple Selections	2024-05-20 13:25:46.000	tewaratp	
Stop.	Multiple Selections	2024-05-21 10:16:04.000	tewaratp	
Stop.	Multiple Selections	2024-05-22 13:54:26.000	tewaratp	
Stop.	Multiple Selections	2024-05-22 21:15:06.000	tewaratp	
Stop.	Multiple Selections	2024-05-23 16:17:19.000	tewaratp	
Run.	Multiple Selections	2024-03-08 21:06:07.000	tewaratp	
Run.	Multiple Selections	2024-03-09 13:17:48.000	tewaratp	
Run.	Multiple Selections	2024-03-09 21:11:48.000	tewaratp	
Run.	Multiple Selections	2024-03-10 21:51:28.000	tewaratp	
Run.	Multiple Selections	2024-03-10 14:30:04.000	tewaratp	
Stop.	Multiple Selections	2024-04-16 19:50:56.000	tewaratp	
Stop.	Multiple Selections	2024-04-17 16:05:01.000	tewaratp	
Run.	Multiple Selections	2024-04-17 21:07:22.000	tewaratp	
Stop.	Multiple Selections	2024-04-18 08:29:48.000	tewaratp	
Run.	Multiple Selections	2024-04-19 01:17:58.000	tewaratp	
Run.	Multiple Selections	2024-04-19 14:39:55.000	tewaratp	
Run.	Multiple Selections	2024-04-19 21:32:55.000	tewaratp	
Run.	Multiple Selections	2024-04-20 22:51:12.000	tewaratp	
Stop.	Multiple Selections	2024-04-21 14:10:53.000	tewaratp	
Run.	Multiple Selections	2024-04-22 00:20:04.000	tewaratp	
Run.	Multiple Selections	2024-04-22 10:13:07.000	tewaratp	
Stop.	Multiple Selections	2024-05-23 22:48:27.000	tewaratp	
Run.	Multiple Selections	2024-05-24 13:37:24.000	tewaratp	
Stop.	Multiple Selections	2024-05-25 16:15:52.000	tewaratp	
Stop.	Multiple Selections	2024-05-26 17:01:54.000	tewaratp	
Normal.	Multiple Selections	2024-05-26 17:01:54.000	tewaratp	
Normal.	Multiple Selections	2024-05-27 10:19:12.000	tewaratp	
Normal.	Multiple Selections	2024-05-25 16:15:53.000	tewaratp	
Normal.	Multiple Selections	2024-05-24 13:37:25.000	tewaratp	
Normal.	Multiple Selections	2024-05-23 22:48:28.000	tewaratp	
Normal.	Multiple Selections	2024-04-22 10:13:07.000	tewaratp	
Normal.	Multiple Selections	2024-04-21 14:10:54.000	tewaratp	
Normal.	Multiple Selections	2024-04-22 00:20:05.000	tewaratp	
Normal.	Multiple Selections	2024-04-20 22:51:13.000	tewaratp	
Normal.	Multiple Selections	2024-04-19 21:32:55.000	tewaratp	
Normal.	Multiple Selections	2024-04-19 01:17:59.000	tewaratp	
Normal.	Multiple Selections	2024-04-19 14:39:56.000	tewaratp	
Normal.	Multiple Selections	2024-04-18 08:29:49.000	tewaratp	
Normal.	Multiple Selections	2024-04-17 21:07:22.000	tewaratp	

Inspection result	Unit	N otes	Date/Time	Report By
Normal.	Multiple Selections	2024-04-16 19:50:58.000	tewaratp	
Normal.	Multiple Selections	2024-04-17 16:05:02.000	tewaratp	
Normal.	Multiple Selections	2024-03-10 21:51:29.000	tewaratp	
Normal.	Multiple Selections	2024-03-09 21:11:49.000	tewaratp	
Normal.	Multiple Selections	2024-03-09 13:17:48.000	tewaratp	
Normal.	Multiple Selections	2024-03-10 14:30:05.000	tewaratp	
Normal.	Multiple Selections	2024-03-08 21:06:08.000	tewaratp	
Normal.	Multiple Selections	2024-05-23 16:17:20.000	tewaratp	
Normal.	Multiple Selections	2024-05-22 21:15:07.000	tewaratp	
Normal.	Multiple Selections	2024-05-22 13:54:27.000	tewaratp	
Normal.	Multiple Selections	2024-05-21 10:16:07.000	tewaratp	
Normal.	Multiple Selections	2024-05-20 13:25:47.000	tewaratp	
Normal.	Multiple Selections	2024-05-18 11:43:13.000	tewaratp	
Normal.	Multiple Selections	2024-05-19 11:34:19.000	tewaratp	
Normal.	Multiple Selections	2024-05-16 14:18:36.000	tewaratp	
Normal.	Multiple Selections	2024-05-17 13:00:46.000	tewaratp	
Normal.	Multiple Selections	2024-05-15 16:40:03.000	tewaratp	
Normal.	Multiple Selections	2024-05-14 22:24:14.000	tewaratp	
Normal.	Multiple Selections	2024-05-14 17:19:25.000	tewaratp	
Normal.	Multiple Selections	2024-05-13 16:01:29.000	tewaratp	
Normal.	Multiple Selections	2024-05-11 14:10:30.000	tewaratp	
Normal.	Multiple Selections	2024-05-12 09:55:49.000	tewaratp	
Normal.	Multiple Selections	2024-03-29 08:25:37.000	tewaratp	
Normal.	Multiple Selections	2024-03-29 00:38:21.000	tewaratp	
Normal.	Multiple Selections	2024-03-29 20:45:01.000	tewaratp	
Normal.	Multiple Selections	2024-01-04 09:02:15.000	tewaratp	
Normal.	Multiple Selections	2024-01-05 13:15:54.000	tewaratp	
Normal.	Multiple Selections	2024-01-04 22:34:07.000	tewaratp	
Normal.	Multiple Selections	2024-01-05 22:01:17.000	tewaratp	
Normal.	Multiple Selections	2024-01-06 14:34:54.000	tewaratp	
Normal.	Multiple Selections	2024-01-06 20:47:03.000	tewaratp	
Normal.	Multiple Selections	2024-01-07 14:30:58.000	tewaratp	
Normal.	Multiple Selections	2024-01-07 20:20:44.000	tewaratp	
Normal.	Multiple Selections	2024-01-08 11:23:41.000	tewaratp	
Normal.	Multiple Selections	2024-01-08 23:20:48.000	tewaratp	
Normal.	Multiple Selections	2024-01-01 20:07:44.000	tewaratp	
Normal.	Multiple Selections	2024-01-02 07:50:14.000	tewaratp	
Normal.	Multiple Selections	2024-01-02 20:59:53.000	tewaratp	
Normal.	Multiple Selections	2024-01-03 12:31:24.000	tewaratp	
Normal.	Multiple Selections	2024-01-03 22:59:56.000	tewaratp	
Normal.	Multiple Selections	2024-06-30 15:03:37.000	tewaratp	
Normal.	Multiple Selections	2024-06-28 13:37:06.000	tewaratp	
Normal.	Multiple Selections	2024-06-29 11:03:27.000	tewaratp	
Normal.	Multiple Selections	2024-06-27 11:35:27.000	tewaratp	

Inspection result	Unit	N otes	Date/Time	Report By
Normal	Single Selection		2024-01-12 22:20:41.000	tewaratp
Normal	Single Selection		2024-01-13 10:19:33.000	tewaratp
Normal	Single Selection		2024-01-14 00:41:35.000	tewaratp
Normal	Single Selection		2024-01-14 09:45:45.000	tewaratp
Normal	Single Selection		2024-01-14 22:52:14.000	tewaratp
Normal	Single Selection		2024-01-15 09:56:59.000	tewaratp
Normal	Single Selection		2024-01-15 22:42:52.000	tewaratp
Normal	Single Selection		2024-01-16 15:40:02.000	tewaratp
Normal	Single Selection		2024-01-16 21:04:21.000	tewaratp
Normal	Single Selection		2024-05-30 12:58:39.000	tewaratp
Normal	Single Selection		2024-05-29 13:29:24.000	tewaratp
Normal	Single Selection		2024-05-28 13:29:06.000	tewaratp
Normal	Single Selection		2024-05-26 17:01:49.000	tewaratp
Normal	Single Selection		2024-05-27 10:19:05.000	tewaratp
Normal	Single Selection		2024-05-24 13:37:15.000	tewaratp
Normal	Single Selection		2024-05-25 16:15:47.000	tewaratp
Normal	Single Selection		2024-04-06 13:01:35.000	tewaratp
Normal	Single Selection		2024-04-07 23:01:38.000	tewaratp
Normal	Single Selection		2024-04-08 09:16:40.000	tewaratp
Normal	Single Selection		2024-04-08 20:17:09.000	tewaratp
Normal	Single Selection		2024-04-09 13:55:16.000	tewaratp
Normal	Single Selection		2024-04-09 21:32:09.000	tewaratp
Normal	Single Selection		2024-04-06 13:46:18.000	tewaratp
Normal	Single Selection		2024-04-06 23:23:28.000	tewaratp
Normal	Single Selection		2024-04-07 11:47:02.000	tewaratp
Normal	Single Selection		2024-03-18 23:55:05.000	tewaratp
Normal	Single Selection		2024-03-19 15:01:54.000	tewaratp
Normal	Single Selection		2024-03-19 23:32:37.000	tewaratp
Normal	Single Selection		2024-03-21 22:11:46.000	tewaratp
Normal	Single Selection		2024-03-22 10:41:10.000	tewaratp
Normal	Single Selection		2024-03-23 02:05:10.000	tewaratp
Normal	Single Selection		2024-03-23 11:17:27.000	tewaratp
Normal	Single Selection		2024-03-23 23:19:21.000	tewaratp
Normal	Single Selection		2024-04-05 20:03:50.000	tewaratp
Normal	Single Selection		2024-04-05 14:24:53.000	tewaratp
Normal	Single Selection		2024-04-02 01:03:55.000	tewaratp
Normal	Single Selection		2024-04-04 01:52:33.000	tewaratp
Normal	Single Selection		2024-04-04 08:49:53.000	tewaratp
Normal	Single Selection		2024-04-05 00:10:48.000	tewaratp
Normal	Single Selection		2024-04-03 13:53:49.000	tewaratp
Normal	Single Selection		2024-04-02 23:28:22.000	tewaratp
Normal	Single Selection		2024-04-02 01:10:28.000	tewaratp
Normal	Single Selection		2024-04-02 10:22:07.000	tewaratp
Normal	Single Selection		2024-03-31 21:30:04.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
Normal	Single Selection		2024-04-01 14:45:07.000	tewaratp
Normal	Single Selection		2024-03-31 13:36:16.000	tewaratp
Normal	Single Selection		2024-03-29 08:24:04.000	tewaratp
Normal	Single Selection		2024-03-30 15:09:40.000	tewaratp
Normal	Single Selection		2024-03-30 20:53:45.000	tewaratp
Normal	Single Selection		2024-03-29 20:12:28.000	tewaratp
Normal	Single Selection		2024-03-29 00:38:04.000	tewaratp
Normal	Single Selection		2024-03-27 22:31:00.000	tewaratp
Normal	Single Selection		2024-03-28 15:26:27.000	tewaratp
Normal	Single Selection		2024-03-26 21:37:29.000	tewaratp
Normal	Single Selection		2024-03-27 13:51:46.000	tewaratp
Normal	Single Selection		2024-03-25 22:39:18.000	tewaratp
Normal	Single Selection		2024-03-26 08:28:34.000	tewaratp
Normal	Single Selection		2024-03-24 12:01:16.000	tewaratp
Normal	Single Selection		2024-03-25 16:18:10.000	tewaratp
Normal	Single Selection		2024-03-24 22:47:46.000	tewaratp
Normal	Single Selection		2024-03-11 09:54:37.000	tewaratp
Normal	Single Selection		2024-03-11 23:36:30.000	tewaratp
Normal	Single Selection		2024-03-12 15:39:56.000	tewaratp
Normal	Single Selection		2024-03-13 00:22:13.000	tewaratp
Normal	Single Selection		2024-03-13 11:52:45.000	tewaratp
Normal	Single Selection		2024-03-13 22:47:00.000	tewaratp
Normal	Single Selection		2024-03-14 11:14:32.000	tewaratp
Normal	Single Selection		2024-03-15 00:08:42.000	tewaratp
Normal	Single Selection		2024-03-15 16:35:05.000	tewaratp
Normal	Single Selection		2024-03-15 21:30:58.000	tewaratp
Normal	Single Selection		2024-03-16 11:46:51.000	tewaratp
Normal	Single Selection		2024-03-16 23:24:08.000	tewaratp
Normal	Single Selection		2024-03-20 15:04:08.000	tewaratp
Normal	Single Selection		2024-03-21 00:57:45.000	tewaratp
Normal	Single Selection		2024-03-21 13:40:10.000	tewaratp
Normal	Single Selection		2024-03-17 10:01:54.000	tewaratp
Normal	Single Selection		2024-03-17 22:39:42.000	tewaratp
Normal	Single Selection		2024-03-18 13:16:04.000	tewaratp
Normal	Single Selection		2024-06-13 12:46:57.000	tewaratp
Normal	Single Selection		2024-06-06 12:57:38.000	tewaratp
Normal	Single Selection		2024-06-07 11:22:47.000	tewaratp
Normal	Single Selection		2024-06-08 07:36:46.000	tewaratp
Normal	Single Selection		2024-06-09 13:48:11.000	tewaratp
Normal	Single Selection		2024-06-10 13:53:57.000	tewaratp
Normal	Single Selection		2024-06-11 09:19:47.000	tewaratp
Normal	Single Selection		2024-06-12 15:15:55.000	tewaratp
Normal	Single Selection		2024-05-31 13:41:01.000	tewaratp
Normal	Single Selection		2024-06-01 15:19:01.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
Normal	Single Selection		2024-06-02 13:57:19.000	tewaratp
Normal	Single Selection		2024-06-02 23:36:56.000	tewaratp
Normal	Single Selection		2024-06-03 10:24:32.000	tewaratp
Normal	Single Selection		2024-06-04 09:08:13.000	tewaratp
Normal	Single Selection		2024-06-05 14:04:01.000	tewaratp
Normal	Single Selection		2024-06-27 11:35:19.000	tewaratp
Normal	Single Selection		2024-06-28 13:37:03.000	tewaratp
Normal	Single Selection		2024-06-29 11:03:22.000	tewaratp
Normal	Single Selection		2024-06-30 15:03:32.000	tewaratp
Normal	Single Selection		2024-04-17 16:04:55.000	tewaratp
Normal	Single Selection		2024-06-14 10:46:19.000	tewaratp
Normal	Single Selection		2024-06-15 00:07:08.000	tewaratp
Normal	Single Selection		2024-06-15 09:05:38.000	tewaratp
Normal	Single Selection		2024-06-16 10:26:56.000	tewaratp
Normal	Single Selection		2024-06-17 09:58:41.000	tewaratp
Normal	Single Selection		2024-06-18 08:48:33.000	tewaratp
Normal	Single Selection		2024-06-19 11:09:54.000	tewaratp
Normal	Single Selection		2024-06-20 12:57:33.000	tewaratp
Normal	Single Selection		2024-06-21 14:35:33.000	tewaratp
Normal	Single Selection		2024-06-22 16:05:59.000	tewaratp
Normal	Single Selection		2024-06-23 15:15:47.000	tewaratp
Normal	Single Selection		2024-06-24 11:18:39.000	tewaratp
Normal	Single Selection		2024-06-25 11:19:14.000	tewaratp
Normal	Single Selection		2024-06-26 09:33:03.000	tewaratp
Normal	Single Selection		2024-04-10 23:49:07.000	tewaratp
Normal	Single Selection		2024-04-11 09:50:57.000	tewaratp
Normal	Single Selection		2024-04-11 23:09:29.000	tewaratp
Normal	Single Selection		2024-04-12 16:06:24.000	tewaratp
Normal	Single Selection		2024-04-13 01:44:16.000	tewaratp
Normal	Single Selection		2024-04-13 08:10:00.000	tewaratp
Normal	Single Selection		2024-04-13 22:52:36.000	tewaratp
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Normal	Single Selection		2024-04-15 02:44:36.000	tewaratp
Normal	Single Selection		2024-04-15 09:04:15.000	tewaratp
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Normal	Single Selection		2024-03-01 22:54:34.000	tewaratp
Normal	Single Selection		2024-02-10 14:43:28.000	tewaratp
Normal	Single Selection		2024-02-20 11:50:45.000	tewaratp
Normal	Single Selection		2024-03-02 11:05:00.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
Normal	Single Selection		2024-03-02 22:54:05.000	tewaratp
Normal	Single Selection		2024-03-03 10:52:12.000	tewaratp
Normal	Single Selection		2024-03-04 00:42:01.000	tewaratp
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Normal	Single Selection		2024-03-05 13:56:14.000	tewaratp
Normal	Single Selection		2024-03-06 01:03:58.000	tewaratp
Normal	Single Selection		2024-03-06 14:14:07.000	tewaratp
Normal	Single Selection		2024-03-07 05:21:18.000	tewaratp
Normal	Single Selection		2024-03-07 14:00:21.000	tewaratp
Normal	Single Selection		2024-03-07 21:09:50.000	tewaratp
Normal	Single Selection		2024-03-08 13:36:40.000	tewaratp
Normal	Single Selection		2024-03-09 13:17:45.000	tewaratp
Normal	Single Selection		2024-03-09 21:11:40.000	tewaratp
Normal	Single Selection		2024-03-08 21:06:01.000	tewaratp
Normal	Single Selection		2024-03-10 14:30:01.000	tewaratp
Normal	Single Selection		2024-03-10 21:51:21.000	tewaratp
Normal	Single Selection		2024-04-17 21:07:17.000	tewaratp
Normal	Single Selection		2024-04-18 08:29:39.000	tewaratp
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Normal	Single Selection		2024-04-19 21:32:50.000	tewaratp
Normal	Single Selection		2024-04-20 22:51:09.000	tewaratp
Normal	Single Selection		2024-04-21 14:10:46.000	tewaratp
Normal	Single Selection		2024-04-22 00:20:01.000	tewaratp
Normal	Single Selection		2024-04-22 10:13:02.000	tewaratp
Normal	Single Selection		2024-04-23 02:00:52.000	tewaratp
Normal	Single Selection		2024-04-23 10:44:15.000	tewaratp
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Normal	Single Selection		2024-04-27 21:09:11.000	tewaratp
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Normal	Single Selection		2024-05-03 15:13:32.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-05-07 11:28:07.000	tewaratp
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Normal	Single Selection		2024-05-09 21:34:39.000	tewaratp
Normal	Single Selection		2024-05-10 16:15:39.000	tewaratp
Normal	Single Selection		2024-05-11 14:10:24.000	tewaratp
Normal	Single Selection		2024-05-12 09:54:58.000	tewaratp
Normal	Single Selection		2024-05-13 15:55:26.000	tewaratp
Normal	Single Selection		2024-05-14 17:19:20.000	tewaratp
Normal	Single Selection		2024-05-14 22:24:05.000	tewaratp
Normal	Single Selection		2024-05-15 16:39:56.000	tewaratp
Normal	Single Selection		2024-05-16 14:18:28.000	tewaratp
Normal	Single Selection		2024-05-17 13:00:41.000	tewaratp
Normal	Single Selection		2024-05-18 11:43:06.000	tewaratp
Normal	Single Selection		2024-05-19 11:34:12.000	tewaratp
Normal	Single Selection		2024-05-20 13:25:37.000	tewaratp
Normal	Single Selection		2024-05-21 10:15:59.000	tewaratp
Normal	Single Selection		2024-05-22 13:54:23.000	tewaratp
Normal	Single Selection		2024-05-22 21:14:59.000	tewaratp
Normal	Single Selection		2024-05-23 16:17:16.000	tewaratp
Normal	Single Selection		2024-05-22 13:54:24.000	tewaratp
Normal	Single Selection		2024-05-19 11:34:13.000	tewaratp
Normal	Single Selection		2024-05-22 21:15:00.000	tewaratp
Normal	Single Selection		2024-05-14 22:24:06.000	tewaratp
Normal	Single Selection		2024-05-17 13:00:42.000	tewaratp
Normal	Single Selection		2024-05-12 09:55:00.000	tewaratp
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Normal	Single Selection		2024-05-16 14:18:28.000	tewaratp
Normal	Single Selection		2024-05-15 16:39:57.000	tewaratp
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Normal	Single Selection		2024-05-06 11:04:49.000	tewaratp
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Normal	Single Selection		2024-05-03 15:13:32.000	tewaratp
Normal	Single Selection		2024-05-05 10:41:35.000	tewaratp
Normal	Single Selection		2024-04-26 15:10:13.000	tewaratp
Normal	Single Selection		2024-04-30 10:19:20.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-05-02 00:09:01.000	tewaratp
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Normal	Single Selection		2024-04-28 09:13:01.000	tewaratp
Normal	Single Selection		2024-04-29 11:05:53.000	tewaratp
Normal	Single Selection		2024-04-25 22:57:05.000	tewaratp
Normal	Single Selection		2024-04-24 21:26:46.000	tewaratp
Normal	Single Selection		2024-03-10 14:28:15.000	tewaratp
Normal	Single Selection		2024-04-21 14:10:47.000	tewaratp
Normal	Single Selection		2024-04-25 14:47:33.000	tewaratp
Normal	Single Selection		2024-04-22 00:20:00.000	tewaratp
Normal	Single Selection		2024-04-23 10:44:15.000	tewaratp
Normal	Single Selection		2024-04-24 14:24:32.000	tewaratp
Normal	Single Selection		2024-04-23 20:38:54.000	tewaratp
Normal	Single Selection		2024-04-20 22:51:10.000	tewaratp
Normal	Single Selection		2024-04-19 01:17:54.000	tewaratp
Normal	Single Selection		2024-04-23 02:00:53.000	tewaratp
Normal	Single Selection		2024-04-22 10:13:03.000	tewaratp
Normal	Single Selection		2024-04-17 21:07:17.000	tewaratp
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Normal	Single Selection		2024-04-16 19:50:31.000	tewaratp
Normal	Single Selection		2024-04-19 14:39:40.000	tewaratp
Normal	Single Selection		2024-04-15 09:04:16.000	tewaratp
Normal	Single Selection		2024-04-17 16:04:56.000	tewaratp
Normal	Single Selection		2024-04-18 08:29:41.000	tewaratp
Normal	Single Selection		2024-03-15 16:35:06.000	tewaratp
Normal	Single Selection		2024-03-15 00:08:43.000	tewaratp
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Normal	Single Selection		2024-05-14 17:19:20.000	tewaratp
Normal	Single Selection		2024-03-10 21:51:22.000	tewaratp
Normal	Single Selection		2024-03-12 15:39:57.000	tewaratp
Normal	Single Selection		2024-03-11 23:36:32.000	tewaratp
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Normal	Single Selection		2024-03-13 00:22:13.000	tewaratp
Normal	Single Selection		2024-03-09 21:11:41.000	tewaratp
Normal	Single Selection		2024-06-30 15:03:33.000	tewaratp
Normal	Single Selection		2024-06-22 16:06:00.000	tewaratp
Normal	Single Selection		2024-06-28 13:37:03.000	tewaratp
Normal	Single Selection		2024-06-26 09:33:04.000	tewaratp
Normal	Single Selection		2024-04-10 23:49:07.000	tewaratp
Normal	Single Selection		2024-02-03 10:07:35.000	tewaratp
Normal	Single Selection		2024-02-03 02:25:00.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-02-01 22:24:32.000	tewaratp
Normal	Single Selection		2024-04-15 21:21:41.000	tewaratp
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Normal	Single Selection		2024-04-16 09:54:21.000	tewaratp
Normal	Single Selection		2024-04-14 08:09:02.000	tewaratp
Normal	Single Selection		2024-04-13 01:44:18.000	tewaratp
Normal	Single Selection		2024-04-11 09:50:58.000	tewaratp
Normal	Single Selection		2024-04-12 16:06:25.000	tewaratp
Normal	Single Selection		2024-04-11 23:09:29.000	tewaratp
Normal	Single Selection		2024-04-06 13:01:36.000	tewaratp
Normal	Single Selection		2024-04-09 21:32:10.000	tewaratp
Normal	Single Selection		2024-04-10 08:48:50.000	tewaratp
Normal	Single Selection		2024-04-08 20:17:11.000	tewaratp
Normal	Single Selection		2024-02-03 20:32:23.000	tewaratp
Normal	Single Selection		2024-06-27 11:35:19.000	tewaratp
Normal	Single Selection		2024-06-20 12:57:34.000	tewaratp
Normal	Single Selection		2024-06-16 10:26:57.000	tewaratp
Normal	Single Selection		2024-06-24 11:18:40.000	tewaratp
Normal	Single Selection		2024-06-18 08:48:34.000	tewaratp
Normal	Single Selection		2024-06-17 09:58:42.000	tewaratp
Normal	Single Selection		2024-06-21 14:35:34.000	tewaratp
Normal	Single Selection		2024-06-19 11:09:55.000	tewaratp
Normal	Single Selection		2024-06-13 12:46:59.000	tewaratp
Normal	Single Selection		2024-04-13 22:52:41.000	tewaratp
Normal	Single Selection		2024-06-12 15:15:55.000	tewaratp
Normal	Single Selection		2024-06-15 09:05:38.000	tewaratp
Normal	Single Selection		2024-06-15 00:07:08.000	tewaratp
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Normal	Single Selection		2024-06-23 15:15:48.000	tewaratp
Normal	Single Selection		2024-06-06 12:57:39.000	tewaratp
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Normal	Single Selection		2024-05-26 17:01:49.000	tewaratp
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Normal	Single Selection		2024-03-06 01:03:58.000	tewaratp
Normal	Single Selection		2024-03-07 21:09:51.000	tewaratp
Normal	Single Selection		2024-03-08 13:36:40.000	tewaratp
Normal	Single Selection		2024-06-03 10:24:32.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
Normal	Single Selection		2024-06-04 09:08:13.000	tewaratp
Normal	Single Selection		2024-06-11 09:19:47.000	tewaratp
Normal	Single Selection		2024-06-10 13:53:57.000	tewaratp
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Normal	Single Selection		2024-06-08 07:36:46.000	tewaratp
Normal	Single Selection		2024-06-02 13:57:19.000	tewaratp
Normal	Single Selection		2024-06-05 14:04:02.000	tewaratp
Normal	Single Selection		2024-06-14 10:46:21.000	tewaratp
Normal	Single Selection		2024-02-10 14:47:49.000	tewaratp
Normal	Single Selection		2024-02-09 23:27:21.000	tewaratp
Normal	Single Selection		2024-02-12 15:06:41.000	tewaratp
Normal	Single Selection		2024-02-11 10:12:06.000	tewaratp
Normal	Single Selection		2024-02-10 23:54:00.000	tewaratp
Normal	Single Selection		2024-02-14 13:48:32.000	tewaratp
Normal	Single Selection		2024-02-11 22:56:59.000	tewaratp
Normal	Single Selection		2024-02-15 01:41:31.000	tewaratp
Normal	Single Selection		2024-02-13 22:28:39.000	tewaratp
Normal	Single Selection		2024-02-13 14:41:11.000	tewaratp
Normal	Single Selection		2024-02-23 13:39:56.000	tewaratp
Normal	Single Selection		2024-02-19 00:54:11.000	tewaratp
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Normal	Single Selection		2024-02-18 09:56:07.000	tewaratp
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Normal	Single Selection		2024-03-23 11:17:29.000	tewaratp
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Normal	Single Selection		2024-03-15 21:30:59.000	tewaratp
Normal	Single Selection		2024-03-20 15:04:09.000	tewaratp
Normal	Single Selection		2024-03-17 22:39:42.000	tewaratp
Normal	Single Selection		2024-03-18 13:16:05.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-03-24 22:47:47.000	tewaratp
Normal	Single Selection		2024-03-23 23:19:22.000	tewaratp
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Normal	Single Selection		2024-03-26 21:37:30.000	tewaratp
Normal	Single Selection		2024-03-28 15:26:27.000	tewaratp
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Normal	Single Selection		2024-03-31 13:36:17.000	tewaratp
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Normal	Single Selection		2024-03-26 08:28:45.000	tewaratp
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Normal	Single Selection		2024-03-30 15:09:41.000	tewaratp
Normal	Single Selection		2024-04-02 01:10:28.000	tewaratp
Normal	Single Selection		2024-03-29 20:12:28.000	tewaratp
Normal	Single Selection		2024-04-02 10:22:08.000	tewaratp
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Normal	Single Selection		2024-02-05 10:12:20.000	tewaratp
Normal	Single Selection		2024-01-01 20:07:38.000	tewaratp
Normal	Single Selection		2024-01-02 07:50:10.000	tewaratp
Normal	Single Selection		2024-01-04 09:02:12.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-01-03 12:31:19.000	tewaratp
Normal	Single Selection		2024-01-02 20:59:48.000	tewaratp
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Normal	Single Selection		2024-01-15 22:42:54.000	tewaratp
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Normal	Single Selection		2024-01-14 22:52:15.000	tewaratp
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Normal	Single Selection		2024-01-13 10:19:34.000	tewaratp
Normal	Single Selection		2024-01-12 22:20:42.000	tewaratp
Normal	Single Selection		2024-01-12 14:35:54.000	tewaratp
Normal	Single Selection		2024-01-12 09:22:18.000	tewaratp
Normal	Single Selection		2024-01-11 23:26:42.000	tewaratp
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Normal	Single Selection		2024-01-10 20:02:14.000	tewaratp
Normal	Single Selection		2024-01-10 09:50:16.000	tewaratp
Normal	Single Selection		2024-01-09 22:06:57.000	tewaratp
Normal	Single Selection		2024-01-09 11:05:48.000	tewaratp
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Normal	Single Selection		2024-01-31 10:33:50.000	tewaratp
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Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-01-23 09:02:26.000	tewaratp
Normal	Single Selection		2024-01-22 22:55:19.000	tewaratp
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Normal	Single Selection		2024-01-16 21:04:22.000	tewaratp
Normal	Single Selection		2024-01-16 15:40:03.000	tewaratp
Normal	Single Selection		2024-02-16 13:46:42.000	tewaratp
Normal	Single Selection		2024-03-10 14:30:01.000	tewaratp
Normal	Single Selection		2024-03-08 21:06:02.000	tewaratp
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Normal	Single Selection		2024-03-05 13:56:16.000	tewaratp
Normal	Single Selection		2024-03-07 14:00:21.000	tewaratp
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Normal	Single Selection		2024-03-06 14:14:08.000	tewaratp
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Normal	Single Selection		2024-02-22 21:46:44.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-04-07 11:47:02.000	tewaratp
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Normal	Single Selection		2024-04-07 23:01:39.000	tewaratp
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Normal	Single Selection		2024-04-06 13:46:19.000	tewaratp
Normal	Single Selection		2024-04-06 23:23:29.000	tewaratp
Normal	Single Selection		2024-05-21 10:16:00.000	tewaratp
Normal	Single Selection		2024-05-23 22:48:21.000	tewaratp
Normal	Single Selection		2024-05-25 16:15:48.000	tewaratp
Normal	Single Selection		2024-05-27 10:19:06.000	tewaratp
Normal	Single Selection		2024-05-29 13:29:25.000	tewaratp
Normal	Single Selection		2024-05-24 13:37:16.000	tewaratp
Normal	Single Selection		2024-05-23 16:17:17.000	tewaratp
Normal	Single Selection		2024-04-04 08:49:54.000	tewaratp
Normal	Single Selection		2024-05-20 13:25:38.000	tewaratp
Normal	Single Selection		2024-05-20 13:25:39.000	tewaratp
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Normal	Single Selection		2024-02-26 09:16:48.000	tewaratp
Normal	Single Selection		2024-02-27 11:09:55.000	tewaratp
Normal	Single Selection		2024-02-24 14:27:42.000	tewaratp
Normal	Single Selection		2024-02-28 11:53:53.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Single Selection		2024-03-01 14:24:38.000	tewaratp
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Normal	Single Selection		2024-01-27 11:21:45.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Single Selection		2024-01-28 23:53:55.000	tewaratp
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Normal	Single Selection		2024-01-09 11:05:49.000	tewaratp
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Normal	Single Selection		2024-01-11 13:20:30.000	tewaratp
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Normal	Single Selection		2024-01-04 22:34:02.000	tewaratp
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Normal	Single Selection		2024-02-05 10:12:21.000	tewaratp
Normal	Single Selection		2024-02-06 00:33:09.000	tewaratp
Normal	Single Selection		2024-02-06 11:02:00.000	tewaratp
Normal	Single Selection		2024-02-07 00:04:23.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Single Selection		2024-02-07 23:09:40.000	tewaratp
Normal	Single Selection		2024-02-08 21:20:01.000	tewaratp
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Normal	Single Selection		2024-03-21 00:57:47.000	tewaratp
Normal	Single Selection		2024-03-21 13:40:12.000	tewaratp
Normal	Single Selection		2024-03-16 11:46:54.000	tewaratp
Normal	Single Selection		2024-03-17 10:01:56.000	tewaratp
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Normal	Single Selection		2024-04-02 01:03:56.000	tewaratp
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Normal	Single Selection		2024-04-01 14:45:08.000	tewaratp
Normal	Single Selection		2024-03-29 00:38:05.000	tewaratp
Normal	Single Selection		2024-03-30 20:53:47.000	tewaratp
Normal	Single Selection		2024-03-31 13:36:18.000	tewaratp
Normal	Single Selection		2024-03-29 08:24:05.000	tewaratp
Normal	Single Selection		2024-03-29 20:12:29.000	tewaratp
Normal	Single Selection		2024-03-27 22:31:02.000	tewaratp
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Normal	Single Selection		2024-03-19 15:01:55.000	tewaratp
Normal	Single Selection		2024-03-19 23:32:39.000	tewaratp
Normal	Single Selection		2024-03-23 11:17:30.000	tewaratp
Normal	Single Selection		2024-03-18 23:55:07.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Single Selection		2024-03-22 10:41:12.000	tewaratp
Normal	Single Selection		2024-03-24 12:01:18.000	tewaratp
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Normal	Single Selection		2024-02-19 12:51:16.000	tewaratp
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Normal	Single Selection		2024-02-14 13:48:33.000	tewaratp
Normal	Single Selection		2024-02-15 01:41:31.000	tewaratp
Normal	Single Selection		2024-02-17 01:12:49.000	tewaratp
Normal	Single Selection		2024-02-11 22:57:00.000	tewaratp
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Normal	Single Selection		2024-02-11 10:12:06.000	tewaratp
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Normal	Single Selection		2024-05-30 12:58:41.000	tewaratp
Normal	Single Selection		2024-05-26 17:01:50.000	tewaratp
Normal	Single Selection		2024-06-02 13:57:21.000	tewaratp
Normal	Single Selection		2024-06-02 23:36:59.000	tewaratp

Inspection result	Unit	Notes	Date/Time	Report By
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Normal	Single Selection		2024-06-23 15:15:48.000	tewaratp
Normal	Single Selection		2024-06-29 11:03:23.000	tewaratp
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Normal	Single Selection		2024-06-19 11:09:55.000	tewaratp
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Normal	Single Selection		2024-04-13 22:52:41.000	tewaratp
Normal	Single Selection		2024-04-13 08:10:02.000	tewaratp
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Inspection result	Unit	Notes	Date/Time	Report By
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Inspection result	Unit	Notes	Date/Time	Report By
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PPM			2024-01-05 22:01:33.000	tewaratp
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Inspection result	Unit	Notes	Date/Time	Report By
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PPM			2024-01-22 14:58:57.000	tewaratp
PPM			2024-01-22 22:55:49.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By	Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By	Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By	Inspection result	Unit	N otes	Date/Time	Report By
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Inspection result	Unit	N otes	Date/Time	Report By	Inspection result	Unit	N otes	Date/Time	Report By
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	PPM		2024-01-16 21:05:09.000	tewaratp		PPM		2024-05-28 13:29:21.000	tewaratp
	PPM		2024-01-16 15:40:26.000	tewaratp		PPM		2024-05-27 10:19:23.000	tewaratp
	PPM		2024-06-30 15:03:41.000	tewaratp		PPM		2024-05-26 17:02:01.000	tewaratp
	PPM		2024-06-29 11:03:33.000	tewaratp		PPM		2024-05-25 16:16:00.000	tewaratp
	PPM		2024-06-28 13:37:11.000	tewaratp		PPM		2024-05-24 14:38:43.000	tewaratp
	PPM		2024-06-27 11:35:33.000	tewaratp		PPM		2024-04-23 02:01:13.000	tewaratp
	PPM		2024-06-26 09:33:18.000	tewaratp		PPM		2024-04-22 10:13:13.000	tewaratp
	PPM		2024-01-03 12:31:28.000	tewaratp		PPM		2024-04-22 00:20:10.000	tewaratp
	PPM		2024-01-02 20:59:59.000	tewaratp		PPM		2024-04-19 21:33:00.000	tewaratp
	PPM		2024-01-03 23:00:01.000	tewaratp		PPM		2024-04-20 22:51:18.000	tewaratp
	PPM		2024-01-02 07:50:23.000	tewaratp		PPM		2024-04-21 14:11:09.000	tewaratp
	PPM		2024-01-01 20:07:49.000	tewaratp		PPM		2024-04-19 14:40:02.000	tewaratp
	PPM		2024-05-19 11:34:24.000	tewaratp		PPM		2024-04-19 01:18:07.000	tewaratp
	PPM		2024-05-18 11:43:18.000	tewaratp		PPM		2024-04-18 08:30:33.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
Normal	PPM		2024-04-17 21:07:30.000	tewaratp
	PPM		2024-04-16 19:51:18.000	tewaratp
	PPM		2024-04-17 16:05:08.000	tewaratp
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	PPM		2024-03-10 14:30:09.000	tewaratp
	PPM		2024-03-08 21:06:12.000	tewaratp
	PPM		2024-03-09 21:11:54.000	tewaratp
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	Multiple Selections		2024-03-10 14:30:10.000	tewaratp
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Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Multiple Selections		2024-06-15 09:07:22.000	tewaratp
Normal	Multiple Selections		2024-06-16 10:44:48.000	tewaratp
Normal	Multiple Selections		2024-06-17 09:58:52.000	tewaratp
Normal	Multiple Selections		2024-06-18 08:48:45.000	tewaratp
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Normal	Multiple Selections		2024-06-22 16:06:24.000	tewaratp
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Normal	Multiple Selections		2024-05-28 13:29:22.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Multiple Selections		2024-01-27 11:22:03.000	tewaratp

Inspection result	Unit	N otes	Date/Time	Report By
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Normal	Multiple Selections		2024-02-25 19:14:46.000	tewaratp

Inspection result	Unit	N ot es	Date/Time	Report By
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Inspection result	Unit	N ot es	Date/Time	Report By
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Normal	Multiple Selections		2024-02-28 22:24:12.000	tewaratp
Normal	Multiple Selections		2024-02-29 09:48:31.000	tewaratp
Normal	Multiple Selections		2024-02-29 23:31:42.000	tewaratp

ภาคผนวก ข.9

การตรวจสอบระบบท่อส่งน้ำเสียจากท่าเทียบเรือ

OFF - PLOT PIPING MODULE REPORT

SECTION A

Equipment: OPM96 – 014: OFFPLOT, BALLAST PIPELINE INSPECTION

Inspector Name: Pansak K./Attanon P.

Date of inspection: 03 July 2024

Type: Scheduled OSI 2024

Reason for Inspection: External inspection.

SUMMARY:

General condition of 12" ballast water line (96 BW -10501-B15) route from Marine Product Pier running thru IEAT I-8 road were visual inspected, found in good condition. Pipeline external minor chalk of paint. No repair work requires at this period. Pipe welds, vent/drain nozzles appeared in good condition observed. Overall pipeline still fit for service at the design condition.

COMPONENTS:

Pipe: Pipeline external minor chalk of paint. No repair work requires at this period. Pipe welds, vent/drain nozzles appeared in good condition observed. Overall pipeline still fit for service at the design condition.

Supports: Sound condition

Paint: Minor chalking of paint. No repair work requires at this period.

Insulation: N/A

RECOMMENDATION:

Nil

ACTION PARTY

Attanon P.
4 July 2024
IR/22

Pansak K.
4 July 2024
IR/22



Photo1: 12" Ballast line from Marine Product Pier to shoreline.



Photo2: Ballast line still in good condition observed.



Photo3: 66PSV102 still in good condition observed.

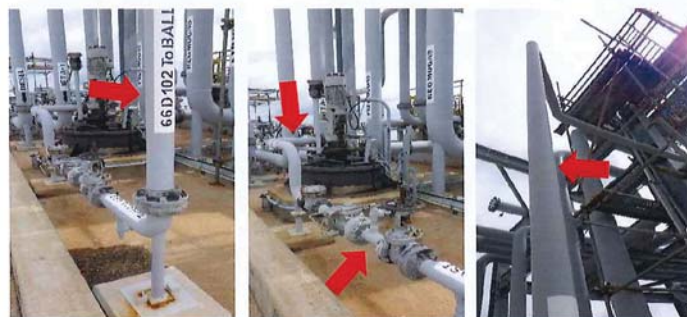


Photo4: 66D102 to ballast line still in good condition observed.



Photo5: 66HV218 to ballast line still in good condition observed.

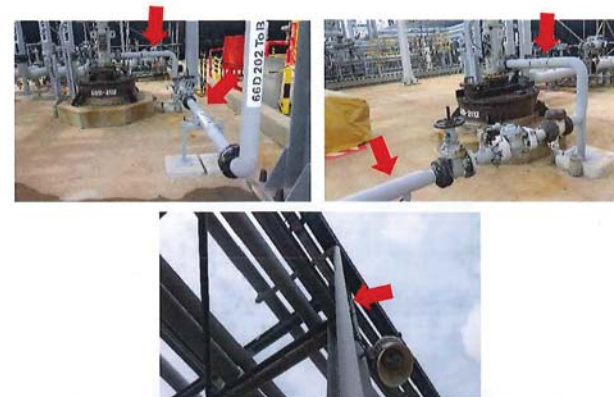


Photo6: 66D202 to ballast line still in good condition observed.



Photo7: 66K203 to ballast line still in good condition observed.



Photo8: 66D302 to ballast line still in good condition observed.



Photo9: 66K302 to ballast line still in good condition observed.



Photo10: 66D301 to ballast line still in good condition observed.



Photo11: 66D402 to ballast line still in good condition observed.



Photo12: 66D401 to ballast line still in good condition observed.



Photo13: 66D502 to ballast line still in good condition observed.



Photo14: 66HV519 to ballast line still in good condition observed.



Photo15: 66D501 to ballast line still in good condition observed.



Photo15: 67GM107 to ballast line still in good condition observed.

ภาคผนวก ข.10

รายการอุปกรณ์กำจัดน้ำมันหกรั่วไหล และการตรวจสอบสภาพอุปกรณ์

2024 AREA 66 SPRC OIL SPILL EQUIPMENT LIST						
Item	Tag No.	Model	Quantity	Unit	Status	Location
BOOM						
1	66K901	Permanate Boom and Riser set	200	m	Stand by	Berth#2,3
2	66K902	VIKOseal Boom	4	Set	ok	MCB warehouse
3		FOAM FILL HARBOUR BOOM	1250	m	okay	Boom yard
SKIMMER + PUMP						
1	66K903	TERMINATOR-HELIX WITH DESMI DOP-DUAL	1	set	okay	MCB warehouse
2	66K904	BRUSH AND DISC SKIMMER MINIMAX 25	1	set	okay	MCB warehouse
3	66K905	BRUSH AND DISC SKIMMER MINIMAX 25	1	set	okay	MCB warehouse
DISPERSANT SPRAYER						
1	66K906	DISPERSANT SPRAY SET BOAT SPRAY 100 D	1	set	okay	MCB warehouse
2	66K907	DISPERSANT SPRAY SET BOAT SPRAY 100 D	1	set	okay	MCB warehouse
POWER PACK						
1	66K908	POWER PACK DSPP 50 KW	1	set	Refabrica	Saftol
2	66K909	7.3 Power Pack for Minimax	1	set	Okay	MCB warehouse
3	66K910	7.3 Power Pack for Minimax	1	set	Okay	MCB warehouse
OIL STORAGE						
1	66D903A	Oil stroage (Fast tank)	1	set	okay	MCB warehouse
2	66D903B	Oil stroage (Fast tank)	1	set	okay	MCB warehouse

Item	Tag No.	Model	Quantity	Unit	Status	Current Location
BOOM						
1	65K104X	DESMI RO-Boom SPI 1300 - 250m	250	m	Stand by	UW Rayong
	65KB104X	SPI Air blower for RO-Boom	2	set	Stand by	UW Rayong
2	65K101	LAMOR HDB 1300 - 250 m	250	m	Stand by	882
3	65K102X	DESMI RO-Boom SPI 1300 - 250m	250	m	Stand by	RS 38
	65KB102X	SPI Air blower for RO-Boom	1	set	Stand by	RS 38
4	65K103X	DESMI RO-Boom SPI 1300 - 250m	250	m	Stand by	RS 38
	65KB103X	SPI Air blower for RO-Boom	1	set		MCB warehouse
5	65K106AX	DESMI RO-Boom 800 (Beach Boom)	80	m		MCB warehouse
		Air Blower	1	set	okay	MCB warehouse
		Water pump	1	set	okay	MCB warehouse
6	65K106BX	DESMI RO-Boom 800 (Beach Boom)	80	m		MCB warehouse
		Air Blower	1	set	okay	MCB warehouse
		Water pump	1	set	ok	MCB warehouse
7	65K106CX	DESMI RO-Boom 800 (Beach Boom)	90	m		MCB warehouse
		Air Blower	1	set	ok	MCB warehouse
		Water pump	1	set		MCB warehouse
SKIMMER + PUMP						
1	65K108	TERMINATOR - Weir Skimmer	1	set	okay	MCB warehouse
2	65K109	Mini-Max (Inshore Skimmer)	1	set	okay	MCB warehouse
3	65K111	KOMARA 30K - Disc Skimmer	1	set	okay	MCB warehouse
4	65K113	KOMARA 12K - Disc Skimmer	1	set	okay	MCB warehouse
5	65K112B	RO-MOP OM 260H	1	set	okay	MCB warehouse
6	65K112A	RO-MOP OM 140H	1	set	okay	MCB warehouse
7	65G101A	SPATE PUMP 75C	1	set	okay	MCB warehouse
8	65G101B	SPATE PUMP 75C	1	set	okay	MCB warehouse
9	65G101C	SPATE PUMP 75C	1	set	okay	MCB warehouse
10	65K127	Brush-Weir Skimmer DESMI Terminator helix DOP 2	1	set	Stand by	UW Rayong
DISPERSANT SPRAYER						
1	65K121	ALFEDO DISPERSANT SPRAYER	1	set	Stand by	RS38
2	65K126	ALFEDO DISPERSANT SPRAYER	1	set	Stand by	UW Rayong
3	65K114	VIKOSPRAY	1	set	Stand by	RS38
4	65K128	LAMOR dispersant sprayer	1	set	Stand by	882
POWER PACK						
1	65K116B	55 kw Power Pack	1	set	Okay	MCB warehouse
2	65K116A	55 kw Power Pack	1	set	Okay	MCB warehouse
3	65K116C	55 kw Power Pack	1	set	Okay	MCB warehouse
4	65K116D	52 kw Power Pack	1	set	Stand by	882
5	65K117A	DESMI 4.5 kw Power Pack (117 GPM/0.5 m3/min)	1	set	Okay	MCB warehouse
6	65K117B	DESMI 4.5 kw Power Pack (117 GPM/0.5 m3/min)	1	set	Okay	MCB warehouse
7	65K116AX	DESMI POWER PACK 7.5 kW WITH AIR BLOWER(13	1	set	Stand by	UW Rayong
8	65K116BX	DESMI POWER PACK 7.5 kW WITH AIR BLOWER(13	1	set	Stand by	RS38
9	65K116CX	DESMI POWER PACK 7.5 kW WITH AIR BLOWER(13	1	set	Okay	MCB warehouse
10	65K129	LAMOR 7.3 Multipurpose Power Pack	1	set	Okay	MCB warehouse
11	65K130	DESMI POWER PACK DSPP 50 KW	1	set	Okay	MCB warehouse
OIL STORAGE						
1	65D101	RO-TANK - 25 m3	1	set	okay	MCB warehouse
2	65D102	ISO-TANK - 20 m3	1	set	Stand by	LPG peir
3	65D103	FAST TANK - 2 x 10 m3	2	set	okay	MCB warehouse
DISPERSANT STORAGE						
1	Dispersant SPM Uniwise	Dispersant SPM Uniwise	3600	L	Stand by	UW Rayong
2	Dispersant SPM RS38	Dispersant SPM RS38	5900	L	Stand by	RS38
3	Dispersant Warehouse	Dispersant DASIC Slickgone NS	58800	L	Drums	MCB warehouse
SORBENT MATERIAL						
1	Sorbent Boom A2	Sorbent Boom A2 MAXX SEL B85	70	bag	okay	MCB warehouse
2	Sorbent sheet SEL 100	Sorbent sheet SEL 100 MAXX SEL 100 (17"x19")	125	boxes	okay	MCB warehouse
3	Sorbent roll SEL R38	Sorbent roll SEL R38 MAXX SEL R38 (38"x144")	213	rolls	okay	MCB warehouse
LIGHTING EQUIPMENT						
1	94B169	Nite Lite Flood Light	1	Set	okay	MCB warehouse

Codes: R = under repair, aw, spare parts A = abnormal condition observed, cannot do BEC L = equipment relocation, not available for BEC O = other reasons

BEC OSR Equipment year: 2024			Fill in the date on which the actual BEC is carried out. If not done specify the reason Code as shown on the header.											
Respond for monthly check		Shift	A	B	C	D	A	B	C	D	A	B	C	D
Equipment	Description		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
55 kw Powerpack	check/tell diesel fuel, lub oil,	Planned	X	X	X	X	X	X	X	X	X	X	X	X
	hydraulic oil, cooling water	55K116 A	Can't start											
	run engine 5 minutes	55K116 B	Can't start											
	check for abnormality, leakage,	55K116 C	22 Jan 24											
no air blowing, etc.														
58 kw Powerpack	check/tell diesel fuel, lub oil,	Planned	X											
	hydraulic oil	58K117A	22 Jan 24											
	run engine 5 minutes	58K117B	22 Jan 24											
	check for abnormality, leakage, etc.													
7.3 kw Powerpack	check/tell diesel fuel, lub oil,	Planned	X											
	hydraulic oil	59K122	Check only											
	run engine 5 minutes		22 Jan 24											
	check for abnormality, leakage, etc.													
RD Boom 1300	roll out/in 10-15 meter using	Planned												
	Inflatable Boom	55K101												
	check for any abnormality,	55K102												
	non-smooth test/motor running	55K103												
RD Boom 1000	roll out/in 10-15 meter using	Planned												
	Inflatable Boom	55K104												
	check for any abnormality,	55K105												
	non-smooth test/motor running													
Komora 30K	run 5 minutes using	Planned												
	Disc Skimmer	55K111												
	check for abnormality, damage													
Komora 12K	run 5 minutes using	Planned												
	Disc Skimmer	55K113												
	check for abnormality, damage													
Minimax 25	run 5 minutes using	Planned												
	Disc/ Brush Skimmer	55K120												
	check for abnormality, damage													
RD Mop 260H	run 5 minutes using	Planned												
	Rope Mop Skimmer	55K128												
	check for abnormality, damage													
RD Mop 140H	run 5 minutes using	Planned												
	Rope Mop Skimmer	55K12A												
	check for abnormality, damage													
Beach Boom 800	check/tell mixed ULD fuel	Planned	X											
	Air Blower	55K106A	22 Jan 24											
	run engine 3 minutes	55K106B	22 Jan 24											
	Box 7, 8	55K106C	22 Jan 24											
Beach Boom 800	check/tell ULD fuel, lub oil	Planned	X											
	Water Pump	55K106A	22 Jan 24											
	run engine 3 minutes	55K106B	22 Jan 24											
	Box 7, 8	55K106C	22 Jan 24											
Beach Boom 800	randomly select one boom	Planned												
	section, fill all chambers with air													
	Box 6, 7, 8													
	check for abnormality, puncture													
Spate Pump	randomly select one pump	Planned	X											
	multi purpose diaphragm													
	pump													
	check for abnormality, suction													
Vikospray	check/tell diesel fuel, lub oil	Planned	X											
	Diesel Engine	55K114	RS30											
	run engine 3 minutes													
	check for abnormality													
Vikospray	assemble all parts of unit	Planned												
	Whole Unit													
	water spray test 10 minutes													
	check for abnormality, leakage													
AFEDO	check/tell diesel fuel, lub oil	Planned	X											
	Whole Unit	55K121	5 PM											
	run engine 3 minutes													
	check for abnormality													
AFEDO	assemble all parts of unit	Planned												
	Whole Unit	55K121												
	water spray test 10 minutes													
	check for abnormality, leakage													
Nix Lite	check/tell diesel fuel, lub oil	Planned	X											
	Fixed Light/Diesel	54B109	22 Jan 24											
	run engine 5 minutes													
	Generator Trailer													
Fast Tank	randomly select one Fast Tank	Planned												
	Temporary Oil Storage													
	assemble the tank													
	check for any damage, puncture													

Codes: R = under repair, aw, spare parts A = abnormal condition observed, cannot do BEC L = equipment relocation, not available for BEC O = other reasons

BEC OSR Equipment year: 2024			Fill in the date on which the actual BEC is carried out. If not done specify the reason Code as shown on the header.											
Respond for monthly check		Shift	A	B	C	D	A	B	C	D	A	B	C	D
Equipment	Description		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BACKPACK SPRAYER	visual check for damage	Planned												
	for Dispersant													
DISPERSANT	check stock item	Planned	X											
	Quantity (Liters)		309 Drums											
			22-01-24											

Message	Order	Description	Equipment	Bse start	Basic fin	Description of functional location	User Status	System status	Changed by	Type
10353485	60130341	REPLACE TAIL HOSE EXTRA 16" STBD	65SP505-S	30.12.2020	29.01.2021	TAIL HOSE EXTRA FOR MBC STBD 16" X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353486	60130342	REPLACE TAIL HOSE 16"NORMAL 1 STBD	65SP506-S1	30.12.2020	29.01.2021	TAIL HOSE NORMAL 1 STBD 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353487	60130343	REPLACE TAIL HOSE 16"NORMAL 2 STBD	65SP506-S2	30.12.2020	29.01.2021	TAIL HOSE NORMAL 2 STBD 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353488	60130344	REPLACE TAIL HOSE 16"NORMAL 3 STBD	65SP506-S3	30.12.2020	29.01.2021	TAIL HOSE NORMAL 3 STBD 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353489	60130345	REPLACE TAIL HOSE 16"NORMAL 4 STBD	65SP506-S4	30.12.2020	29.01.2021	TAIL HOSE NORMAL 4 STBD 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353490	60132834	REPLACE TANKER RAIL HOSE 16" STBD	65SP507-S	30.12.2020	29.01.2021	TANKER RAIL HOSE STBD 16" X 9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353491	60132835	REPLACE FH 24"1st OFF PORT	65SP508-P	30.12.2020	29.01.2021	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10353492	60132836	REPLACE TANKER RAIL HOSE PORT	65SP514-P	30.12.2020	29.01.2021	TANKER RAIL HOSE PORT 16" X 9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
	60132569	1Y UTM BELT LINE CENTER & SPOOL PIPES	65C201	17.12.2020	16.01.2021	CENTRAL PIPE UNIT (CPU)	COMP	CLSD NMAT PRC SETC	BTCDAM	PMO
10355634	60131428	1Y UTM BELT LINE CENTER & SPOOL PIPES	65C201	17.11.2020	17.12.2020	CENTRAL PIPE UNIT (CPU)	COMP	CLSD CNF GMPS NMAT PRC SETC	WORRATHATT	PMO
10348031	60130381	INSPECT BUTTERFLY VALVE 24" PORT	65BV102-P	30.06.2020	30.07.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348032	60130380	INSPECT BUTTERFLY VALVE 24" STBD	65BV102-S	30.06.2020	30.07.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348033	60130382	INSP BUTTERFLY VALVE 10"CROSS OVER	65BV105	30.06.2020	30.07.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348034	60130384	INSPECT 4" BALL VALVE PORT	65BV106-P	30.06.2020	30.07.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348035	60130383	INSPECT 4" BALL VALVE STBD	65BV106-S	30.06.2020	30.07.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348036	60130385	INSPECT 10" SUBSEA BALL VALVE#6	65BV107-E	30.06.2020	30.07.2020	CENTRAL PIPE UNIT (CPU)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348037	60130386	INSPECT 24"MOON POOL BFV WEST	65BV107-W	30.06.2020	30.07.2020	CENTRAL PIPE UNIT (CPU)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348228	60130387	INSPECT SUBSEA 4" BALL VALVE#1	65BV108	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348001	60130388	INSPECT SUBSEA 10" BALL VALVE # 4	65BV109	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348229	60130389	INSPECT 4" SUBSEA VENT BV #5	65BV110	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348230	60130390	INSPECT SUBSEA 10" BALL VALVE#3	65BV111	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348371	60130391	INSPECT 10" SUBSEA BALL VALVE#6	65BV112	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348372	60130392	INSPECT 24" SUBSEA BALL VALVE#7	65BV113	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348373	60130393	INSPECT 24" SUBSEA BALL VALVE#2	65BV114	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348374	60130394	INSPECT 24" SUBSEA CHECK VALVE WEST	65SP201	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10348375	60130395	INSPECT 24" SUBSEA CHECK VALVE EAST	65SP202	30.06.2020	30.07.2020	PIPE LINE END MANIFOLD (PLEM)	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10342018	60130379	OVERHAUL BUTTERFLY VALVE 16"PORT	65BV101-P	30.12.2019	29.01.2020	BUTTERFLY VALVE TANKER 16" (PORT)	COMP	CLSD GMPS NMAT PRC SETC	BTCDAM	PMO
10342020	60130378	OVERHAUL BUTTERFLY VALVE 16"STBD	65BV101-S	30.12.2019	29.01.2020	BUTTERFLY VALVE TANKER 16" (STBD)	COMP	CLSD NMAT PRC SETC	BTCDAM	PMO
10340384	60130318	1Y UTM BELT LINE CENTER & SPOOL PIPES	65C201	30.12.2019	29.01.2020	CENTRAL PIPE UNIT (CPU)	COMP	CLSD NMAT PRC SETC	WORRATHATT	PMO
10340116	60130319	REPLACE FH 24"1st OFF STBD	65SP501A	30.12.2019	29.01.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	WORRATHATT	PMO
10340321	60130346	REPLACE TANKER RAIL HOSE 16" STBD	65SP507-S	30.12.2019	29.01.2020	TANKER RAIL HOSE STBD 16" X 9.1m	COMP	CLSD CNF NMAT PRC SETC	WORRATHATT	PMO
10340117	60130347	REPLACE FH 24"1st OFF PORT	65SP508-P	30.12.2019	29.01.2020	BUOY ROTATING TURNTABLE	COMP	CLSD CNF NMAT PRC SETC	WORRATHATT	PMO
10340322	60130348	REPLACE FH 24"2nd OFF PORT	65SP509-P	30.12.2019	29.01.2020	BUOY ROTATING TURNTABLE	COMP	CLSD NMAT PRC SETC	WORRATHATT	PMO
10340323	60130349	REPLACE FH 24"MAIN LINE1 PORT	65SP510-P1	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE1 PORT 24"X10.7m	COMP	CLSD NMAT PRC SETC	WORRATHATT	PMO
10340324	60130358	REPLACE FH 24"MAIN LINE10 PORT	65SP510-P10	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE10 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	WORRATHATT	PMO
10340325	60130359	REPLACE FH 24"MAIN LINE11 PORT	65SP510-P11	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE11 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340326	60130360	REPLACE FH 24"MAIN LINE12 PORT	65SP510-P12	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE12 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340327	60130361	REPLACE FH 24"MAIN LINE13 PORT	65SP510-P13	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE13 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340328	60130362	REPLACE FH 24"MAIN LINE14 PORT	65SP510-P14	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE14 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340329	60130363	REPLACE FH 24"MAIN LINE15 PORT	65SP510-P15	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE15 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340330	60130364	REPLACE FH 24"MAIN LINE16 PORT	65SP510-P16	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE16 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340331	60130365	REPLACE FH 24"MAIN LINE17 PORT	65SP510-P17	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE17 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340332	60130366	REPLACE FH 24"MAIN LINE18 PORT	65SP510-P18	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE18 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340333	60130367	REPLACE FH 24"MAIN LINE19 PORT	65SP510-P19	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE19 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340334	60130350	REPLACE FH 24"MAIN LINE2 PORT	65SP510-P2	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE2 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340335	60130368	REPLACE FH 24"MAIN LINE 20 PORT	65SP510-P20	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE20 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340336	60130351	REPLACE FH 24"MAIN LINE3 PORT	65SP510-P3	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE3 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340337	60130352	REPLACE FH 24" MAIN LINE4 PORT	65SP510-P4	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE4 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340338	60130353	REPLACE FH 24" MAIN LINES PORT	65SP510-P5	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE5 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340339	60130354	REPLACE FH 24"MAIN LINE6 PORT	65SP510-P6	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE6 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340340	60130355	REPLACE FH 24"MAIN LINE7 PORT	65SP510-P7	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE7 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340341	60130356	REPLACE FH 24" MAIN LINE8 PORT	65SP510-P8	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE8 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340342	60130357	REPLACEFH 24"MAIN LINE9 PORT	65SP510-P9	30.12.2019	29.01.2020	FLOATING HOSE MAIN LINE9 PORT24"X10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340343	60130369	REPLACE TAPER HOSE 24"X16" PORT	65SP511-P	30.12.2019	29.01.2020	REDUCER (TAPER) HOSE PORT 24"X16"x10.7m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340344	60130370	REPLACE TAIL HOSE EXTRA 16" PORT	65SP512-P	30.12.2019	29.01.2020	TAIL HOSE EXTRA FOR MBC PORT 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340345	60130371	REPLACE TAIL HOSE 16" NORMAL 1 PORT	65SP513-P1	30.12.2019	29.01.2020	TAIL HOSE NORMAL 1 PORT 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340346	60130372	REPLACE TAIL HOSE 16" NORMAL 2 PORT	65SP513-P2	30.12.2019	29.01.2020	TAIL HOSE NORMAL 2 PORT 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340347	60130373	REPLACE TAIL HOSE 16" NORMAL 3 PORT	65SP513-P3	30.12.2019	29.01.2020	TAIL HOSE NORMAL 3 PORT 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO

Message	Order	Description	Equipment	Bse start	Basic fin	Description of functional location	User Status	System status	Changed by	Type
10340348	60130374	REPLACE TAIL HOSE 16" NORMAL 4 PORT	65SP513-P4	30.12.2019	29.01.2020	TAIL HOSE NORMAL 4 PORT 16"X9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO
10340349	60130375	REPLACE TANKER RAIL HOSE PORT	65SP514-P	30.12.2019	29.01.2020	TANKER RAIL HOSE PORT 16" X 9.1m	COMP	CLSD CNF NMAT PRC SETC	BTCDAM	PMO

ภาคผนวก ข.11

กฎความปลอดภัยในการทำงาน



Environment, Health and Safety (EHS) Rules and Regulations

Prepared by: Jeerapa Arunpathip

Number: EHS-OT-QS-0005

Approved by: Timothy A Potter

Revision: 05

Low

Medium

High

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Purpose

The purpose of this procedure is to outline our expected standards and safe work practices for all personnel who work in SPRC with the objective that no one get hurt either on or off the job.

System Information


Summary These EHS Rules and Regulations shall apply to all personnel who are working at SPRC.

Roles and Responsibilities Everyone is responsible for their own safety and by following these Rules and Regulations will help ensure that everyone works safely both inside and outside of SPRC.

Precautions

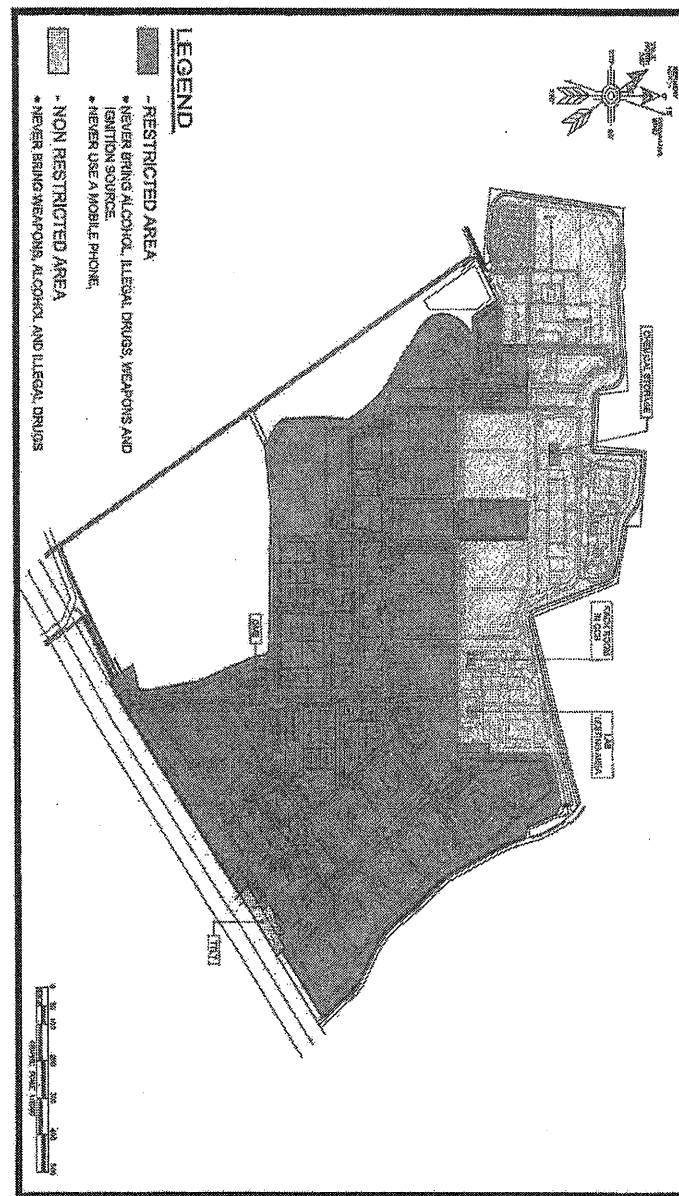
Prerequisites

Detailed Activities

Who	Step	Action	Check
1. EHS Rules and Regulations			
1.1 The Golden Rules of Safety			
The Golden Rules of Safety has been developed to provide guidance to SPRC family to help avoid behaviors that can lead to incident or injury.			
There are 7 Golden Rules of Safety:			
ALL	1.	Never come to work when under the influence of alcohol or drugs (0% mg alcohol or negative test for illegal drugs).	
ALL	2.	Never bring alcohol, illegal drugs, weapons or ignition sources to the site	
ALL	3.	Never use a mobile phone in restricted areas.	
ALL	4.	Never smoke outside designated smoking areas.	
ALL	5.	Never engage in fighting or threatening behavior.	
ALL	6.	Never steal property from SPRC premises.	
ALL	7.	Never remove a scaffold board, handrail, or move or modify any scaffolding components.	
<div> <div>  WARNING </div> <div> <p>Any person found not complying with the Golden Rules of Safety will be subject to disciplinary action, which may include:</p> <ul style="list-style-type: none"> • Unpaid suspension from work. • No longer being allowed to work on SPRC premises. • Termination of employment or contract. </div> </div>			

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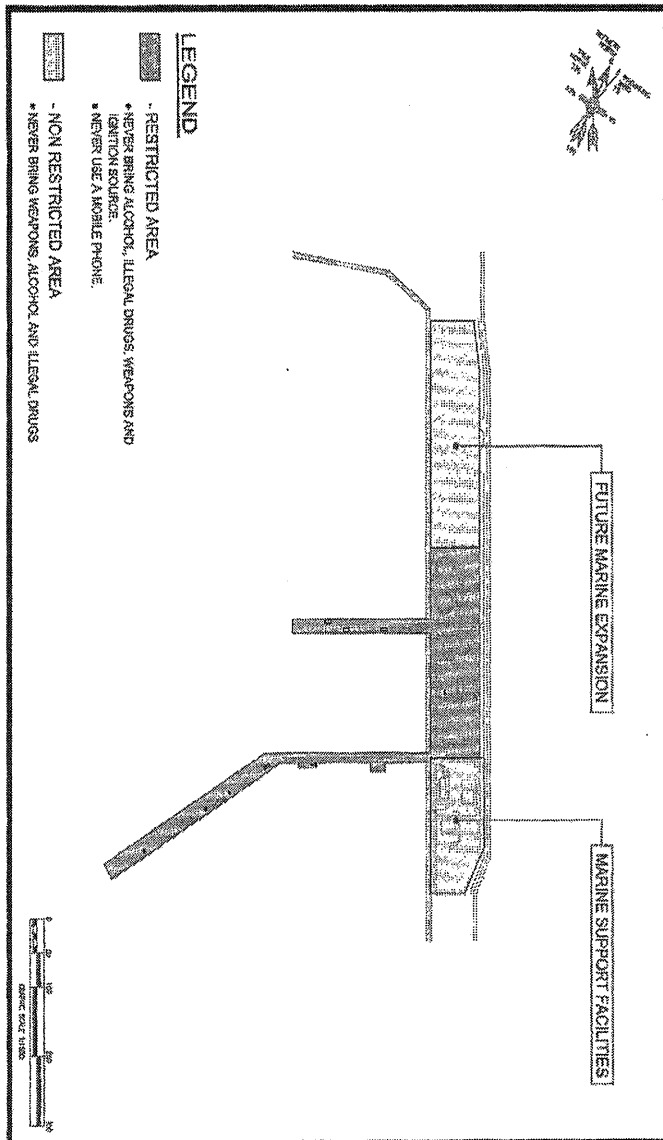
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Area classification for the golden rules of Safety: Refinery

Who	Step	Action	Check
1.2 General EHS Rules and Regulations			
1.2.1 Access to Office Complex			
VST	1.2.1.1	Contact Security Guard at the Main Gate.	
VST	1.2.1.2	Contact Receptionist at main lobby, Administration Building.	
RCT	1.2.1.3	Contact the host of visitor.	
SPS	1.2.1.4	Escort the visitor at all times.	
1.2.2 Access to the Refinery / Marine Areas			
NOTE		A safety briefing shall be conducted for the visitor by the SPRC personnel who is the host of the visit before conducting any business.	
SPS	1.2.2.1	SPRC personnel who are the host of visitor shall:	
SPS	1.	Escort the visitor to register at the Refinery Entrance Building (REB), Tank Truck Loading Terminal (TTLT) gate or Marine gate to receive an access card.	
VST	2.	IF Plan to visit process areas	THEN Sign in the log book at the Central Control Building (CCB), to receive permission from Area Owner.
VST	3.	IF Plan to visit tank farm area	THEN Sign in the log book at the Oil Movement Building (OMB), to receive permission from Area Owner.
VST	4.	IF Plan to visit tank truck loading area	THEN Sign in the log book at the Tank Truck Loading Terminal (TTLT) Building, to receive permission from Area Owner.
VST	5.	IF Plan to visit marine terminal pier area	THEN Sign in the log book at the marine terminal pier gate, to receive permission from Area Owner.
VST	6.	Return and sign out after the visit.	
SPS	7.	Notify Area Owner that you have returned.	
VST	8.	Return to the REB, TTLT or Marine gate and return access card.	
NAP	1.2.2.2	SPRC personnel and contractors who are not authorized to enter the Process, Tank Farm, TTLT and Marine Terminal Pier Areas shall:	
NOTE		Authorized person mean Production Unit staff (indicator start with PN and PD) and other SPRC personnel or contractors who get approval permit to work from the area owner.	

Area classification for the golden rules of Safety: Marine



Who	Step	Action	Check
NAP	1.	IF	THEN
		Plan to visit process areas	Sign in the log book at the Central Control Building (CCB) or Centralized Operation Shelter (COS) to receive permission from Area Owner.
NAP	2.	IF	THEN
		Plan to visit tank farm area	Sign in the log book at the Oil Movement Building (OMB), to receive permission from Area Owner.
NAP	3.	IF	THEN
		Plan to visit tank truck loading area	Sign in the log book at the Tank Truck Loading Terminal (TTLT) Building, to receive permission from Area Owner.
NAP	4.	IF	THEN
		Plan to visit marine terminal pier area	Sign in the log book at the marine terminal pier gate, to receive permission from Area Owner.
NAP	5.	Return and sign out after the visit.	
NAP	6.	Notify Area Owner that you have returned.	

1.2.3 Security

ALL 1.2.3.1 **Carry** a SPRC identification badge at all time.

1.2.4 Personal Protective Equipment (PPE)




ALL	When working in the Refinery and Marine Terminal, the minimum PPE required to be worn at all times is:	
ALL	1	Safety helmet with chin strap. (Chin strap is required to be in use whenever the safety helmet is worn.)
ALL	2	Safety glasses
ALL	3	Safety shoes
ALL	4	Long sleeve shirt, trousers or coveralls using Fire Retardant Cloth (i.e., NOMEX). See areas required in Appendix: 1
ALL	5	Gloves. Wear gloves whenever entering process area or tank bund wall area.
ALL	When working in the Laboratory, the minimum PPE required to be worn at all times is:	
ALL	1	Safety glasses
ALL	2	Safety shoes
ALL	3	Long sleeves gown suit and long sleeves trousers using Fire Retardant Cloth (i.e., NOMEX)

Who	Step	Action	Check
ALL	When working in the Maintenance Workshop, the minimum PPE required to be worn at all times is:		
ALL	1	Safety glasses	
ALL	2	Safety shoes	
ALL	3	Long sleeves gown suit and long sleeves trousers using Fire Retardant Cloth (i.e., NOMEX)	
ALL	4	Gloves. The type of gloves shall be suitable for protection against relevant hazards (i.e. cutting protection gloves, chemical protection gloves, electrical protection gloves, heat resistance gloves etc.)	
ALL	PPE to be worn or used in specific working conditions and environment is:		
ALL	1	Hearing protection (ear plugs or ear muffs) are required when entering or working in: <ul style="list-style-type: none">• Process areas (i.e., hearing protection areas usually defined by warning signs),• A noise generating environment e.g. grinding, fiber metal cutting, jack hammer, high pressure water,• Octane testing room.	
ALL	2	Respiratory Protection Equipment, goggles and face shield shall be used for specific jobs or in any work environment where such hazards are identified, or as specified in the Permit To Work.	
ALL	3	Safety helmet with chin strap when an overhead crane is in use at the workshop area.	
ALL	PPE to be worn in rest tent which installed restricted area is:		
ALL	1	Safety glasses	
ALL	2	Safety shoes	
ALL	3	Long sleeves gown suit and long sleeves trousers using Fire Retardant Cloth (i.e., NOMEX)	

Who	Step	Action	Check
1.2.5 Safe Work Practice			
ALL	1.2.5.1	Follow the instruction of Safe Work Practices such as <u>Permit to Work</u> , <u>Confined Space Entry</u> , <u>Isolation of Equipment</u> , <u>Work at Height</u> , <u>Excavation</u> , <u>Electrical</u> , <u>Crane and Lifting Works</u> .	
1.2.6 Carry Personal Gas Monitor			
ALL	When entering Process areas, Tank Farms and Marine Terminal Piers:		
OPS	1.2.6.1	Carry a personal 4 gas monitor for all Operation Personnel (i.e. Operators, Shift Supervisors, Operation Coordinators) - one monitor per person.	
NOP	1.2.6.2	Carry a personal 4 gas monitor by at least one person in a group that is working at the same job/ equipment/ area. The workers must be adjacent in a manner that clear communications can be done.	
1.2.7 Use of Portable Radio			
ALL	1.2.7.1	Carry radios in the approved leather pouch.	
ALL	1.2.7.2	Use approved belt or strap.	
ALL	1.2.7.3	Use remote speaker.	



Who	Step	Action	Check
1.2.8 Motor Vehicle Safety			
		CAUTION	Do not allow any vehicle to enter restricted areas without an access pass issued by Security.
		CAUTION	Do not allow any person to ride on the bed of a truck without a proper seat, guard and roof.
		CAUTION	Do not allow gasoline driven vehicles / engine to enter the restricted areas.
		NOTE	A gasoline engine used for grass cutting is allowed in the PD operating area.
ALL	1.	Wear seatbelts.	
ALL	2.	Follow the traffic signs.	
ALL	3.	Follow the speed limit for the following areas:	
		• Refinery	Not Exceed 30 km/hr
		• Administration complex	Not Exceed 40 km/hr
ALL	4.	IF	THEN
		Diesel driven vehicles/engine is required to enter an Operating Unit or Hazardous Areas.	Request and get permit from the unit operation personnel prior to entering the unit.
ALL	5.	IF	THEN
		In case of an emergency.	1. Stop the vehicle 2. Switch off the engine 3. Evacuate to assembly point
		CAUTION	Do not use a mobile phone while driving. In case of an important call e.g. duty call, the driver must park the vehicle in a safe manner before using the phone.
ALL	6.	IF	THEN
		Driving company vehicle or personal vehicle for company business.	Switch off the mobile phone.
ALL	7.	Switch off the company-issued mobile phone before driving any vehicle.	
		NOTE	The on-call duty team members and emergency response personnel attending to an emergency situation are allowed to leave the mobile phone on while driving company vehicles or personal vehicle for company business.
		CAUTION	Use of radio while driving must for listening only.
ALL	8.	IF	THEN
		Need to have a conversation via radio while driving.	Park the vehicle at safe location first.

Who	Step	Action	Check
1.2.9 Parking of Vehicles in the Refinery			
CAUTION Do not park vehicles in a way that obstructs the flow of traffic.			
ALL	1.2.9.1	Park at a minimum distance of 5 meters from the following: <ul style="list-style-type: none"> • Fire hydrants • Emergency showers • Emergency equipment painted red 	
ALL	1.2.9.2	Parking vehicles in a restricted area must follow the steps below:	
ALL	1.	Turn off the engine.	
ALL	2.	Leave the key in the ignition.	
ALL	3.	Leave the driver's door unlocked.	
1.2.10 Bicycles / Tricycle Safety			
CAUTION Do not use air instruments to inflate bicycle / tricycle tires.			
ALL	1.2.10.1	Verify that bicycles and tricycles are equipped with chain guards and brakes.	
ALL	1.2.10.2	Verify that chain guards and brakes are inspected and maintained in good and safe condition.	
ALL	1.2.10.3	Ride Bicycle/Tricycle under the main pipe rack in process areas.	
ALL	1.2.10.4	Park bicycle at the designated parking racks/area.	
ALL	1.2.10.5	Park bicycle/tricycle in any area: <ul style="list-style-type: none"> • At least 5 meters away from Fire Fighting Equipment • 2 meters away from any equipment • Do not cause any obstruction to operations 	
1.2.11 Photography Control			
CAUTION Do not take photos or videos at SPRC facilities unless authorized.			
ALL	1.2.11.1	Taking photos or videos in restricted areas:	
ALL	a.	Apply for a Photography Permit to get approval from SPRC Management for a Photography Badge.	
ALL	b.	Apply for a Hot Work Permit to get approval from authorized area personnel to take photos or videos.	
NSE	1.2.11.2	Taking photos or video in non-restricted area	
NSE	a.	Request and get approval from SPRC sponsor.	
NOTE Shift operator area owners do not require a permit to work for taking photos or videos if the area is confirmed as hydrocarbon free by gas testing.			
NOTE Refer to areas required for photography in Appendix 2.			

Who	Step	Action	Check
1.2.12 Equipment Operation			
 WARNING		Do not operate any equipment, valves or switches without authorization or permission from the area owner.	
1.2.13 Personnel Safety During Process Unit Commissioning, Shutdown and Start-up			
 WARNING		Do not allow all non-essential personnel access to process unit during Commissioning, Shutdown or Start-up period.	
1.2.14 Repetitive Stress Injury (RSI) Prevention			
ALL	1.2.14.1	Stop working with computer when RSI break program pop up on screen	
ALL	1.2.14.2	Follow RSI break program exercise as pop up on screen	
1.2.15 Short Service Employee (SSE)			
SSE	1.2.15.1	Identify SSE with the green SSE sticker during SSE period (6 months)	
SPS	1.2.15.2	Assign mentor for each SSE	
SPS	1.2.15.3	Look after and share work knowledge, skill, experience and safe work practice with SSE	
1.2.16 Incident/Near Miss Reporting			
ALL	1.2.16.1	Report all incidents or near misses to the relevant Supervisor or Manager immediately.	
1.2.17 Oil/Chemical Spill Handling			
 WARNING		Do not drain any kind of oils, chemicals or paints into a drain or sewer. If in doubt, consult a SPRC operator or a SPRC Environmental Specialist.	
ALL	1.2.15.2	IF Oil or chemicals spills	THEN 1. Notify area owner immediately 2. Stop leak (if safe to handle) 3. Clean the area
1.2.18 Housekeeping			
ALL	1.2.15.1	Maintain good housekeeping throughout the workplace and relevant facilities.	

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Who	Step	Action	Check
Disciplinary Action for General EHS Rules and Regulations			
When any person sees a deviation from these EHS Rules and Regulations, they should immediately:			
 CAUTION		• Tell – Specify what their concern for their safety is.	
		• Ask – If they see this concern and what they would do differently to be safe.	
		• Tell – Thank you and get their commitment to correct the unsafe behavior or condition.	
In case the person who violated the EHS Rules and Regulations disagrees to correct their behavior, report to their supervisor. The supervisor may take appropriate coaching and other actions, including using the SPRC Employee Accountability Assessment (EAA) process.			
 WARNING			

Appendix

1. Fire Retardant Cloth Identified Areas

Locations	Required Area	Not Required Area
Refinery	1. Process Areas 2. Tank Farm 3. Cleaning Yards 4. Sulphur Palletized Area 5. Waste Areas 6. Laboratory Operating Room 7. Metering Skids H2 / N2 8. Workshop 9. Chemical Warehouse 10. JGC Warehouse 11. Tank Truck Loading Terminal (TTLT)	1. Administration Building Complex 2. Refinery Main Road (Inside Car) 3. Central Control Building (CCB) 4. Clinics 5. Refinery Entrance Building (REB) 6. Workshop / Warehouse Offices 7. Contractor Office Cabin 8. Contractor Yard 9. Oil Movement Building (OMB) 10. Tank Truck Loading Terminal (TTLT) Building 11. Fire Station Building 12. Centralized Operation Shelter (COS) 13. Construction Buildings
Marine	1. Marine Terminal Pier* 2. Single Port Mooring (SPM)	1. Marine Control Building (MCB) 2. Excise Building



NOTE

*: Ship Crew, Ship Visitors who walk along the pier to ship are not required to wear Fire Retardant Cloth.

2. Photography Control Areas

Locations	Restricted Area	Non Restricted Area
Refinery	1. Process Areas 2. Tank Farm Areas 3. Central Control Room at CCB 4. Laboratory Room 5. Tank Truck Loading Terminal (TTLT) 6. Security Control Room at REB 7. Server Room at Administration Building 8. Technical Department Central File Rooms at Administration Building	1. Administration Building Area 2. Warehouse & Workshop Area 3. Employee Recreation Center (ERC) Area 4. Tank Truck Loading Terminal (TTLT) Building
Marine	1. Marine Terminal Pier 2. Single Port Mooring (SPM)	1. Marine Control Building (MCB) 2. Excise Building

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Definitions

Abbreviations

ALL	All SPRC personnel including SPRC employees, contractors, visitors, vendors and other parties who are doing business in SPRC premises.
VST	Visitor
RCT	Receptionist at Administration Building
SPS	SPRC Sponsor
NAP	SPRC Personnel and Contractors who are non-authorized persons to enter the restricted areas
OPS	Operations Personnel
NOP	Non-Operations Personnel
NSE	Non-SPRC Employee
SSE	Short Service Employee



References

Amendment List

Below is a list of changes between the previous and the current revision of this document.

Step/Section	Reason for change
Step 3/Section 1.2	Update minimum PPE in rest tent which located inside restricted area

Distribution List

Copy No.	Controller/Holder	Location
00	Electronic Controller	SmartProcedure

ภาคผนวก ข.12

การจัดการกากของเสีย


Environment			
 Solid Waste Handling and Disposal Guideline			
Prepared by:	Varoonnapa Chaingam	Number:	EHS-WI-QS-1006
Approved by:	Pongkorn Chochuwong	Revision:	1.
Low	Medium	High	

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Purpose

The purpose of this work instruction is to define process and responsibilities associated with maintaining a waste management system and to ensure that all types of wastes generated from SPRC sites are properly classified, handled and safely disposed of in compliance with Thai legislation, Shareholders and International agreements, together with monitoring according to regulation of the waste management process.

SPRC waste management focus to contribute for sustainable development by avoidance of disposal of waste to landfill and minimize the amount of waste generated to recover/recycle/reuse wastes where possible, disposing the remainder in a safe and environmentally responsible and acceptable manner.

This document is classified as an information use/adherence category (IU), the review frequency is 5 years cycle. Next review is October 2025.

System Information

Summary

This procedure covers solid waste management and disposal guideline for all types of wastes, except radiation waste, untreated wastewater to ETP unit, from generation on SPRC premises (including Refinery Areas, Marine Terminal, Tank Truck Loading terminal (TTLT), Administration Building and Other support facilities to its final disposal, either internally or externally.) Solid waste covers liquid, slurry, powder and solid phase. The physical characteristics are as follows:

- Mass or Pieces e.g., metal scrap, unused material, GT filter, amine filter, etc.
- Dry Friable Granular e.g., spent catalyst, spent absorbent, sulfur, bio sludge, coke, etc.
- Powder e.g., incinerator ash, spent RFCCU catalyst, etc.
- Wet Non Pumpable e.g., asphalt, bottom tank sludge, etc.
- Liquid Pumpable e.g., oily sludge, contaminated chemical, obsolete chemical, etc.

This procedure is applicable to all activities and all personnel working in and for SPRC, whether they are directly employed by SPRC or indirectly via approved contractors.

Roles and Responsibility

Deviation from the procedure must be stopped and informed a line supervisor or line manager, concerned people for a solution prior to executing this procedure.

1. **Waste generator owns the waste (Production Units, Maintenance, Contractor, etc.):**
 - Segregate and Classify characteristic of waste
 - Provide MSDS and containment of waste such as steel drum 200 L, ensure good condition containment and ready moving. Complete a Hazardous Waste Disposal permit (HWDP) and Waste Disposal permit and attach MSDS (If require) via the Electronic request form
 - Put the waste in designated container and affix a label on the container(s) or group of small containers.
 - Coordinate with Maintenance Support Services Team regarding the number and placement of the waste containers.
 - Notify Environmental Specialist or Maintenance Support Service team about the waste and getting approval for disposing of the waste
 - Control budget and expense on waste disposal.

2. **Environmental Specialist:**
 - Request permission for offsite waste transportation & disposal and export permit from authority.
 - Approve the method of waste disposal & waste disposal request (E-form).
 - Verify Off site waste disposal contractor compliance.
 - Verify accounting invoices before approval.
 - Maintain the list of the approved contractors.
 - Submit monthly and annually waste management reports to regulatory agencies.
 - Give a technical advice on waste handling and disposal.
 - Track waste documentations.
 - Coordinate with Waste disposal Contractor to provide waste containers e.g., Luggage box, Roll off box, truck and tanker truck.
 - Be the registered Waste Management System Controller refer to notification of MOI.

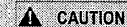


CAUTION

All waste disposal permits shall be approved by DIW before transport waste to offsite disposal facilities.

3. **Maintenance Support Services:**
 - Provide On-site waste transportation.
 - Consolidate waste manifests from contractor and send to Environmental specialist.
 - Arrange the Central Waste Storage Area and check waste inventory for every month, to ensure no waste has been stored **longer than 90 days**.
 - Perform a monthly audit at central waste area to ensure waste containers are in good condition and safe.
 - Provide a Material Gate Pass in the case waste is sent for offsite disposal.
 - Move waste from the location of **waste generator within 10 days** after the waste disposal request (E-form) has been approved by the Environmental Specialist.
 - Be a registered Waste Management system Operator refer to Notification of MOI.

4. **Process Engineer:**
 - Coordinate with procurement and contractor for reclamation spent catalyst e.g. spent Platformer catalyst, spent Hydro treating catalyst.
 - Coordinate with **the Environmental Specialist to obtain relevant permits for spent catalyst exporting**.
 - Label the spent catalyst container and coordinate with Procurement for storage and Shipping.
 - Coordinate with Environmental specialist to manage solid waste from plan shutdown production unit.
 - Provide waste containers steel drum (200 liters) for storing waste such as spent catalyst waste contained some pyrophoric material



CAUTION

All kind of spent catalysts (include spent catalyst sample but exclude active catalyst sample from RFCCU and Platformer) shall apply an export permit to comply with relevant regulations and other requirement e.g. Basel protocol, Hazardous Material act B.E. 2535 and Factory Act B.E. 2535.

5. **SPRC contractor sponsor:**
 - Complete **the Material Gate Pass for Materials**, which is used for waste (including waste water to be disposed offsite) tracking and inventory. A copy of waste manifest must be submitted to Environmental Specialist.
 - Supervise contractors for waste handling, tracking and inventory.
 - Ensure contractor responsible for any waste they generate at the refinery as contract agreement under Environmental Specialist's supervision.

6. **Contractors:**

- Segregate and classify wastes from routine waste, provide the specific waste area for temporary storing and have a notice board for communication.
- Keep waste in storage area tidy.
- Consult with SPRC sponsor and Environmental Specialist on offsite waste transportation and report a quantity of disposal waste.
- Ensure waste disposal permit in place before offsite transportation.

7. **Administration Assistants:**

- Collect used dry-cell batteries then coordinate with the Environmental specialist or Maintenance Support Services for disposal

8. **Procurement Support: for export waste**


- Ensure waste permit compliance before exporting.
- Provide export information, copy of Bill of Lading (B/L) and related document to Environment Specialist for stock cutting of exporting waste process.

Precautions [List any applicable precautions which must be observed while executing this procedure]

Prerequisites [List any applicable prerequisites which must be met before executing this procedure]


Detailed Activities

Who	Step	Action
1. Solid Waste Classification and Characterization		
		<p>Environmental Specialist maintains a waste list of common and recurring refinery waste including their recommended disposal method. (EHS-OT-QS-1004 Hazardous and Non Hazardous Waste List.doc Physical separation of the waste and well-segregating hazardous and non-hazardous waste will help to properly control cost of disposal and encourage of avoiding disposal to landfill.</p> <p>The main waste classifications are:</p> <ol style="list-style-type: none"> 1. Hazardous waste for offsite disposal <ul style="list-style-type: none"> • Spent catalyst e.g. Hydro treating spent catalyst, spent RFCCU. • General Hazardous waste e.g. bio sludge, asphalt, bottom tank sludge, contaminated chemical. • Infectious waste. 2. Non-hazardous waste for offsite disposal <ul style="list-style-type: none"> • General Non Hazardous waste e.g. GT filter, RO membrane Garbage and trash. • Recyclable waste e.g. metal scrap, paper scrap , wood scrap
1.1 Hazardous Waste for Offsite Disposal		
	1.1.1	<p>Spent Catalysts</p> <p>Spent catalysts, regeneration catalyst or reclamation spent catalysts, shall be disposed of by the MOI accredited treatment facility.</p> <p>Spent catalysts have generally generated during system shutdowns, except RFCCU spent catalyst generate during normal operation. Most of catalysts are in solid form.</p>
	1.1.2	<p>General Hazardous waste</p> <p>A hazardous waste and is defined by the Appendix 2 of the Notification of Ministry of Industry on waste disposal B.E. 2548</p> <p>Waste generator should consult with Environmental Specialist for specific hazardous waste characteristics. Generally, hazardous wastes are characterized by the following properties:</p> <ul style="list-style-type: none"> • Ignitable (liquid; flash point < 60 °C, flammable and compressed gas) • Corrosive (pH ≤ 2 or pH ≥ 12.5) • Reactive (pyrophoric / burns in air) • Toxic (human health hazard) • Leachate <p>Example of hazardous wastes e.g. bio-sludge, oily sludge, Laboratory waste, oil contaminated wastes, insulation and refractory waste. They are sent to accredited offsite disposal / treatment facility.</p>

Who	Step	Action
	1.1.3	Infectious waste Infectious waste defined by the Public Health Ministry, Regulation of Infectious waste disposal B.E. 2545. These waste is generated from Site Clinic. They have been disposal by infection waste incineration at hospital incineration.
1.2 Non- hazardous Waste for Offsite Disposal		
		Non-hazardous wastes are defined by the notification of MOI on waste disposal B.E.2548. These wastes are mainly non-contaminated civil waste and used copper slag that uncontaminated a hazardous chemical. They shall send to accredited offsite disposal / treatment facility.
	1.2.1	Garbage and Trash Garbage and trash from offices, kitchens and cafeteria are collected separately in bins placed in convenient locations throughout the refinery. Bins are to be clearly labeled "Garbage and Trash" in English and in Thai. This waste is removed by the Map Ta Phut Municipality or other government approved waste disposal service.
	1.2.2	Recyclable Waste Recyclable waste is paper, scrap metals, scrap plastics, used equipment, excess construction materials, wood, clean empty drums and containers, and other similar materials. These materials are sent to the Central Waste Storage Area for further management and proper cleaning, then will be sold out or donated to local communities/agencies. Procurement, Process Engineering and Operations shall ensure waste containers minimization by using alternative containers such as semi-bulk or Iso-container. Waste generator shall ensure chemical in drums is empty.
<div>  NOTE </div> Refer Notification of Department of Industrial Work B.E. 2561, Exception to submit permission for Non- Hazardous waste e.g recyclable waste, construction waste		
END OF TASK		

Who	Step	Action																														
2. Solid Waste Containers, Storage and Disposal Methods																																
2.1 For Routine Wastes																																
	2.1.1	<table><tr><th colspan="5">Office waste, Recyclable waste and General Hazardous waste</th></tr><tr><th>Waste Type</th><th>Type of Waste Container</th><th>Frequency of Waste Collection</th><th>Storage Location</th><th>Disposal Methods</th></tr><tr><td>Oily contaminate d materials(Co ntaminated rag, PPE, Cartridge filer</td><td>Red bin</td><td>Daily from Monday to Friday</td><td>Central Waste Storage Area</td><td>Recycling in the cement Factory</td></tr><tr><td>Garbage and trash</td><td>Blue bin</td><td>Daily from Monday to Friday</td><td>Behind Canteen</td><td>Sanitary Landfill</td></tr><tr><td>Waste Paper, Plastic bottle, Glass bottle, Can</td><td>Yellow bin</td><td>Daily from Monday to Friday</td><td>Central Waste Storage Area</td><td>Recycling</td></tr><tr><td>Scrap Metal waste, Stainless steel ,Cable wire</td><td>N/A</td><td>As request or move to central waste area directly</td><td>Central Waste Storage Area</td><td>Recycling</td></tr></table>	Office waste, Recyclable waste and General Hazardous waste					Waste Type	Type of Waste Container	Frequency of Waste Collection	Storage Location	Disposal Methods	Oily contaminate d materials(Co ntaminated rag, PPE, Cartridge filer	Red bin	Daily from Monday to Friday	Central Waste Storage Area	Recycling in the cement Factory	Garbage and trash	Blue bin	Daily from Monday to Friday	Behind Canteen	Sanitary Landfill	Waste Paper, Plastic bottle, Glass bottle, Can	Yellow bin	Daily from Monday to Friday	Central Waste Storage Area	Recycling	Scrap Metal waste, Stainless steel ,Cable wire	N/A	As request or move to central waste area directly	Central Waste Storage Area	Recycling
	Office waste, Recyclable waste and General Hazardous waste																															
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Scrap Metal waste, Stainless steel ,Cable wire	N/A	As request or move to central waste area directly	Central Waste Storage Area	Recycling																												

Who	Step	Action				
	2.1.2	Hazardous waste from process				
		Waste Type	Type of Waste Container	Frequency of Waste Collection	Storage Location	Disposal Methods
		Spent FCC Catalyst	Contractor container	Once a week or as request	RFCCU direct to offsite waste disposal	Recycling in the Cement Factory
		Bio-sludge	Contractor container	As request	ETP direct to offsite waste disposal	Recycling in the Cement Factory
		Empty Contaminated Container	Contractor container	As request	Central Waste Storage Area (Shall have covers to prevent spill of residue and smell generated.	Recycling
		Insulation	Contractor container	As request	Central Waste Storage Area (Shall keep in plastic bag and tie it tight to prevent spill)	Recycling in the Cement Factory
		Infectious Waste	Special bin	As request	Clinic	Incineration at Hospital

Who	Step	Action				
	2.2	For Non Routine Wastes				
		Waste Type	Type of Waste Container	Frequency of Waste Collection	Storage	Waste Disposal Methods
		Hazardous waste	Drum 200 Liter or Contractor container	As per request	Central Waste Storage Area	Hazardous Waste Landfill or Cement Factory
		Non-hazardous waste	Drum 200 Liter or Contractor container	As per request	Central Waste Storage Area	Non Hazardous Waste Landfill or Cement Factory
		Spent Catalyst	Drum 200 Liter or Contractor container	As per request	Central Waste Storage Area	Hazardous Waste Landfill or Recycling at the reclaim metal facility at oversea
		Construction waste	Contractor container	As per request	Segregate and prevent mixing with routine waste	Offsite waste disposal/ sale to recycle factory
<p>All waste containers (bin) shall have covers and fully close to protect from rain water, animal and insect for odor and hygiene control.</p> <p> CAUTION Waste containers (bin) conditions shall be water proof containers, no leak and no severe corrosion on surface.</p> <p>Ensure no wastes stored in Central Waste Storage Area longer than 90 days.</p>						

Who	Step	Action
2.3 Special Waste Handling and Caution		
	2.3.1	General Caution The collected container is required a segregation and warning sign. Storage must not create to secondary environmental problem such as odor nuisance or groundwater contamination. Any run off from the storage yard must be treated as contaminated water. Store liquid waste in closed containers on a site surrounded by a bund wall, with drainage to a sewage system.
	2.3.2	Pyrophoric materials and other combustible materials handling When storing waste is unavoidable, special precautions (such as wetting) should be applied for pyrophoric materials and other combustible materials. Waste waiting for disposal must be stored in a dedicated area enclosed in an environmentally safe manner.
	2.3.3	Asbestos Waste handling All asbestos disposal containers must be labeled accordingly and keep wet it the double layer of plastic bag. The asbestos will be disposed as a Hazardous waste. It will be disposed by offsite waste disposal contractor
		Keep the asbestos waste in wet condition and wear respirator mask when handling with them to prevent harm with respiration system. Waste containers (bin) conditions shall be water proof containers, no leak and no severe corrosion on surface.
		WARNING Waste containers (bin) conditions shall be water proof containers, no leak and no severe corrosion on surface.
	2.3.4	Hazardous (used battery and used dragger tube) Waste storing Used battery, light and used dragger tube which contains toxic heavy metal shall be stored in separate bins. These wastes are sent to accredited offsite disposal / treatment facility.

Who	Step	Action							
	2.3.5	<p>Mercury (Hg) Contaminated waste Handling and Disposal</p> <p>The wastes contained Hg ≥ 20 mg/kg are classified as Hazardous Waste, list is as follows:</p> <ul style="list-style-type: none">Spent MRU absorbentHg Contaminated materials e.g., tray, tube bundle, pipeline, etc. <p>Spent MRU absorbent waste shall be kept in leak proof containers with plastic liner, sealed cover and labeling. It shall be sent to recycle and dispose in authorized facilities in Thailand or oversea. If oversea disposal, the Maritime Transportation of Dangerous Goods and Basel Permit shall be complied with.</p> <p>For handling and disposal of Hg contaminated materials e.g., tray, tube bundle, pipeline, etc., please see the workflow.</p> <p>MRU filter, PPE, oily sludge, bio-sludge, chemical or wastewater from cleaning contaminated materials, etc. is potentially hazardous wastes. They are analyzed and sent to dispose in authorized facilities in Thailand.</p>							
Hg Contaminated Materials Disposal Workflow									
WG	2.3.5.1	Seal with Plastic sheets until no mercury(Hg)vapor detected							
WG	2.3.5.2	Affix tracking Number of Equipment							
WG	2.3.5.3	Apply Asset Disposal Request							
WP	2.3.5.4	Verify Hg in Surfaced Material							
ES	2.3.5.5	<table><tr><th>IF</th><th>THEN</th></tr><tr><td rowspan="4">Is it Hazardous? (Hg on surfaced ≥ 20 mg/kg)</td><td>Request DIW waste Disposal Permit</td></tr><tr><td>Clean until Hg< 20 mg/kg</td></tr><tr><td>Sell as scrap</td></tr><tr><td>Proceed Record & Peport to DIW DIW Industrial Waste Manifest&Disposal Report</td></tr></table>	IF	THEN	Is it Hazardous? (Hg on surfaced ≥ 20 mg/kg)	Request DIW waste Disposal Permit	Clean until Hg< 20 mg/kg	Sell as scrap	Proceed Record & Peport to DIW DIW Industrial Waste Manifest&Disposal Report
IF		THEN							
Is it Hazardous? (Hg on surfaced ≥ 20 mg/kg)		Request DIW waste Disposal Permit							
		Clean until Hg< 20 mg/kg							
	Sell as scrap								
	Proceed Record & Peport to DIW DIW Industrial Waste Manifest&Disposal Report								
WP									
WP									
ES									
WP	2.3.5.6	<table><tr><th>IF</th><th>THEN</th></tr><tr><td rowspan="2">Is it Hazardous? (Hg on surfaced ≤ 20 mg/kg)</td><td>Sell as scrap</td></tr><tr><td>Proceed Record&Report to DIW DIW Industrial Waste Manifest&Disposal Report</td></tr></table>	IF	THEN	Is it Hazardous? (Hg on surfaced ≤ 20 mg/kg)	Sell as scrap	Proceed Record&Report to DIW DIW Industrial Waste Manifest&Disposal Report		
IF		THEN							
Is it Hazardous? (Hg on surfaced ≤ 20 mg/kg)	Sell as scrap								
	Proceed Record&Report to DIW DIW Industrial Waste Manifest&Disposal Report								
ES									
END OF TASK									

Who	Step	Action
3. Solid Waste handling Procedure		
	3.1	Solid Waste Handling for Routine Wastes Workflow
WG	3.1.1	Segregate and store waste in Bin
MSST	3.1.2	Collect waste from full container and move to dedicated waste storage area
MSST	3.1.3	Coordinate with offsite waste disposal contractor and municipality officer
MSST	3.1.4	Complete the material gate pass for waste moving out
MSST	3.1.5	Collect waste manifest from the contractor and send to Envi. Specialist.
MSST	3.1.6	Move out waste from site
ES	3.1.7	Record waste tracking manifest and quantity

Who	Step	Action
	3.2	Solid Waste handling For Non Routine Waste Workflow
WG	3.2.1	Request waste container and waste lable (Steel drum 200 L) EHS-FO-QS-1006 Hazardous waste label EHS-FO-QS-1008 Waste label
WG	3.2.2	Affix waste lable on all containers and fill information e.g. waste type, property and plan name.
WG	3.2.3	Segregate and store waste in proper container
WG	3.2.4	Ensure all waste will be stored only in leak proof and sealed container.
WG	3.2.5	Create HWDP/WDP workflow via E-form EHS-FO-QS-1005 Hazardous& Non- Hazardous waste disposal permit form
ES	3.2.6	Review and approve waste disposal method
WG	3.2.7	Fill waste permit number on lable
WG	3.2.8	Coordinate with maintenance support team to move waste from area
WG	3.2.9	Coordinate with offsite waste disposal contractor
MSST	3.2.10	Prepare material gate pass for waste moving out
MSST	3.2.11	Move out waste form site
MSST	3.2.12	Collect waste manifest and send to Envi. specialist.
ES	3.2.13	Record waste type, Manifest and quantity
END OF TASK		


Who	Step	Action
4. Waste Tracking and Inventory System		
		<p>The following information is needed for the solid waste tracking and inventory:</p> <ul style="list-style-type: none"> • Waste generator plant names • Waste characterizations • Waste classifications • Waste quantities • Waste disposal methods • Names of disposal contractors refer to AVL process • SPRC Waste disposal permit from authorities • Waste Manifest • Waste Transportation and Disposal Cost. • Waste disposal Inventory • Waste inventory at the Central Waste area
END OF TASK		

Who	Step	Action
5. Write Off or Asset disposal		
		<p>Materials or asset cannot be disposed of unless asset disposal was approved by relevant manager. Approval authorities for asset disposal or write off are specified under the Manual of Delegated Authority (MODA).</p> <p>The approval process is initiated by the department in charge of the asset completing the following fields on the Asset Disposal Request form (Refer to Asset Disposal Procedure), and sending a signed hard copy to the Approver via the Corporate Services Department:</p> <p>For more details, please refer to Asset Disposal Procedure of the Corporate Services Department.</p>
END OF TASK		

Who	Step	Action
6. Offsite Solid Waste Disposal Contractor Selection		
		<p>Environmental Specialist qualifies offsite contractors, and maintains the list of the approved contractors. The following criteria are used to evaluate each contractor:</p> <ul style="list-style-type: none"> • Contractor disposal method • Contractor financial and insurance reports • Contractor transportation equipment • Contractor facilities • Contractor training, quality and safety program, and record • Contractor experience • Periodic re-evaluation • Contractor obtains all necessary permits and licenses from the Thai authorities for the work. <p>Actual guidelines for approving contractors are given in the Environmental Contractors Evaluation Checklist.</p> <p>Off Site Solid Waste Disposal Contractor Audit</p> <p>In order to track SPRC Waste and minimize the potential problems associated with using offsite contractors to handle and dispose of SPRC waste at an offsite (non-SPRC controlled) facility, the approved offsite waste disposal facilities are scheduled to be audit by Environmental Specialist at least once a year or review an environmental performance report e.g. Sustainable report, in case the disposal facility has been certified by ISO 14000 instead of actual site auditing.</p>
END OF TASK		

Who	Step	Action
7. Emergency Response Plan		
		<p>In case of spill / release from primary containment, please refer to Hazardous Material Release, Emergency Response plan and Pre-Fire plan.</p> <ul style="list-style-type: none"> • EHS-OT-QS-3117 Pre-Incident Plan Central Waste Area (Spill) • EHS-OT-QS-3118 Pre-Incident Plan PN Central Waste Area (Fire)
END OF TASK		

Who	Step	Action	
8. Spent Catalyst & Chemical Wastes Export.			
	Export Workflow		
WG	8.1	Fill in the Export Request Form Section I and submit form with Required documents to Enviromental specialist. AM-FO-AS-309:Export Request Form	
ES	8.2	IF	
ES		Require Basel Permit	8.2.1 Submit for Basel Permit from DIW Basel Convention
ES			8.2.2 Submit for Export Permit from DIW Exprot Hazardous Substance Request Form/Hazardous Substanxe Export Permit
ES			8.2.3 Request for offsite waste dispsal permit from DIW (Sor-Kor 2)
ES			8.2.4 Send relevant permits to Procurement for further process
PMST			8.2.5 Provide waste exporting plan and quantity and related document to Environmental specilaist 5 working days in advance for notifying DIW.
ES			8.2.6 Notify DIW on waste delivering plan and quantity for cutting stock process before delivering.
PMST			8.2.7 Provide copy Bill of loading(B/L)and related document to Environmental specilist for final reprot of stock cutting.

Who	Step	Action	
		IF	THEN
ES	8.3	Not Require Basel Permit	8.3.1 Submit for Export Permit from DIW
			Exprot Hazardous Substance Request Form/Hazardous Substanxe Export Permit
ES			8.3.2 Request for offsite waste dispsal permit from DIW (Sor-Kor 2)
ES			8.3.3 Send relevant permits to Procurement for further process
PMST			8.3.4 Provide waste exporting plan and quantity and related document to Environmental specilaist 5 working days in advance for notifying DIW.
ES			8.3.5 Notify DIW on waste delivering plan and quantity for cutting stock process before delivering.
PMST		8.3.6 Provide copy Bill of loading(B/L)and related document to Environmental specilist for final reprot of stock cutting.	
<div> NOTE</div> <p>All kind of spent catalysts (include spent catalyst sample but exclude active catalyst sample from RFCCU and Platformer) shall apply an export permit to comply with relevant regulations and other requirement e.g. Basel protocol, Hazardous Material act B.E. 2535 and Factory Act B.E. 2535.</p>			
END OF TASK			

Who	Step	Action
9. Measurement and Verification		
	The following leading and lagging indicators will be measured and tracked to determine the effectiveness of Waste Management Process.	
	9.1	Leading Indicator <ul style="list-style-type: none">• Number of SAA or V&V and 100% closed out finding from improper waste handling.• Waste contractor audit once a year and 100% closed out finding.
	9.2	Lagging Indicator <ul style="list-style-type: none">• Number of incidents related to spill or smell complaint from waste handling.• Number of Non-Compliance from waste management.
END OF TASK		

Who	Step	Action
10. Continual Improvement		
	Waste management can improve efficiencies in reducing waste and improving recycling with well segregated to minimize waste generation and identifying markets of waste processor for waste recycling and reuse.	
END OF TASK		

Appendix

Definitions

[List any applicable definitions associated with this procedure]

References

The following sources were used for this document:

- Caltex Petroleum Corporation, Environment Health & Safety Principles, EHS 0191, June 1993
- Notification of MOI on. Waste disposal B.E. 2548 , date 27 December 2005
- MOI Ministerial Proclamation no. 1/2541 dated May 1998
- Asset Disposal Procedures in Corporate Services Department
- Public Health Ministry, Regulation of Infectious waste disposal B.E. 2545
- Evaluation Guidelines for Environmental Contractors procedure.
- Notification of Ministry of industry on Identified size and type of factory method to control waste emission or etc that impact with environmental identified qualification of pollution controller B.E. 2545
- Notification of Ministry of industry, date 27 December B.E. 2547 on Manifest of Hazardous Waste system.
- Notification of Ministry of industry ,date 17 December B.E. 2547 on criteria and method of waste report by using Intranet system
- Ministerial regulation of MOI B.E. 2437,Refer to Hazardous Material Act B.E. 2535, effective date 17 November 2537
- Notification of Ministry of industrial on " Inform information of producer ,exporter importer and hazardous material holder", effective date on 9 May B.E. 2543
- Notification of the MOI No. 2 dated 1st February B.E. 2555 (2012) on Identification of Factories Types, Size, Pollution Control System and Qualification of Pollution Control Facilities Supervisor/Operator Certification
- BASEL Convention of the Control of trans boundary movement of Hazardous waste and their waste under the Department of Industrial work (DIW) control

Amendment List

Below is a list of changes between the previous and the current revision of this document.

Amendment List before transfer to Smart Procedure.

Revision	Date	Page/Section	Reason	By
0	06-Oct-08	All	First release	QS/1
1	1-Jun-09	All	Review and delete terms that mention PUS	QS/22
		P.3/3	Waste management responsibility. revise and add the responsibility of construction project contractor	
		P.8-9,10/5	Solid waste Container, storage and Disposal Methods. 5.1 correct a frequency of waste collection of spent RFCCU and Bio-sludge 5.2 add waste type for construction waste Items 5.3 waste storage handling and special caution 5.3.4 Add mercury (Hg) absorbent waste disposal and handling	
		P.12-13/6	Solid Waste Handling Guideline 6.1 add additional record 6.2 update the request waste disposal via E-form	
2	15-Mar-12	P.3-4/3	Add a responsibility of Environmental specialist and maintenance support team. They shall move waste within 10 days after get an approval waste disposal permit (e-form) Refer to Car -EHS-11-008.	QS/22
		P.4-5/3	Revise a responsibility of process Engineer and add responsibility of Administration assistant	QS/22
		P.11/5.3	Review the asbestos handling	QS/22
		P.17/9	Add the alternative of Waste contractor performance auditing method "Environmental report reviewing, (e.g. SD report)" to instead of yearly site visit and auditing for the facility has been certified ISO14000.	QS/22
		P.21/12	Update list of refer documents.	QS/22
3	17-Oct-12	P.2/2	Revise Scope by adding physical characteristics of solid waste	QS/21
		P.4/3	Revised responsibility of Process Engineer caution on active catalyst sample from RFCCU and Platformer and add Procurement Responsibility for exporting waste.	
		P.19/11	Revise Chemical and catalyst export process refer to the spent catalyst incident investigation.	

4	22-Dec-14	All	Change SPRC logo	Varoonnapa C. (QS/22)
5	5-Feb-15	P.3-4/3	Revise responsibilities of Waste generator, Environmental Specialist and Maintenance Support Services. 1. Adding type of containment of Waste generator responsibilities. 2. Change responsibility between Environmental Specialist and Maintenance Support Services by adding to be coordinator with Waste Disposal Contractor to provide containment in scope of Environmental specialist	Varoonnapa C. (QS/22)
		P.13/9	Add new permit form in non- routine wastes workflow.	
6	20-Apr-16	P. 11/5.3	Revised Mercury (Hg) Contaminated waste Handling and Disposal	Nipa N. (QS/21)
7	7-Oct-20	All	Reviewed and embed 3Rs concept to be guideline.	Varoonnap C.(QS/22)

Amendment List Samart Procedure

Version	Date	Page/Section	Description	By
01	16-Nov-20	All	Transforming to the smart Procedure	Varoonnapa C.

No changes specified in the current Revision of this Procedure.

Distribution List

Copy No.	Controller/Holder	Location
00	Electronic Controller	SmartProcedures

หนังสือแจ้งผลการพิจารณาขออนุญาต
ให้นำสิ่งปลูกสร้างหรือวัสดุที่ไม่ใช่แล้วออกนอกบริเวณโรงงาน



**หนังสือแจ้งผลการพิจารณา
การขออนุญาตให้นำสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วออกนอกบริเวณโรงงาน
กรมโรงงานอุตสาหกรรม**
เลขที่ อก.6601-12969

หนังสือฉบับนี้ออกให้เพื่อแจ้งผลการพิจารณาของ
บริษัท สตาร์ ปีโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)
ทะเบียนโรงงานเลขที่ น.49-1/2537-ญนพ.
โดยมีรายละเอียดผลการพิจารณาดังนี้

ลำดับที่	รหัสวัสดุ ที่ไม่ใช่แล้ว	ชื่อวัสดุที่ไม่ใช่แล้ว	ปริมาณ (ตัน)	วิธีการ กำจัด	ทะเบียนโรงงาน ผู้รับดำเนินการ	ผลการพิจารณา	เหตุผล
1	16 07 08	Oily Sludge	2000	042	น.105-1/2545-ญพข.	อนุญาต	
2	05 01 06	Waste oily Sludge	1000	042	3-106-8/49สน	อนุญาต	

รายการที่ได้รับอนุญาตมีผลบังคับใช้ตั้งแต่วันที่ 17 ตุลาคม 2566 ถึงวันที่ 16 ตุลาคม 2567

ออกให้ ณ วันที่ 21 สิงหาคม 2566

โดยกรมโรงงานอุตสาหกรรม

หนังสือแจ้งผลการพิจารณาฉบับนี้อินพุตโดยใช้ระบบอิเล็กทรอนิกส์



**บันทึกการเปลี่ยนแปลง แก้ไข และยกเลิก รายละเอียดในหนังสือแจ้งผลการพิจารณา
การขออนุญาตให้นำสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วออกนอกบริเวณโรงงาน**

เลขที่ อก.6601-12969
ของ บริษัท สตาร์ ปีโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)
ทะเบียนโรงงานเลขที่ น.49-1/2537-ญนพ.

เลขรับที่	วัน/เดือน/ ปี	สาระสำคัญของการเปลี่ยนแปลงในหนังสือแจ้งผลการพิจารณา	ผลการพิจารณา	เหตุผล
54273/2566	21/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 17 02 03 Rubber hose โดยมีผู้รับดำเนินการคือ ๑3-101-2/40สน ปริมาณ 20 ตัน วิธีการกำจัด 071	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 05 01 06 oily sludge โดยมีผู้รับดำเนินการคือ 3-101-2/44สน ปริมาณ 500 ตัน วิธีการกำจัด 041	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 05 01 06 oily sludge โดยมีผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 500 ตัน วิธีการกำจัด 041	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 05 01 06 oily sludge โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 500 ตัน วิธีการกำจัด 042	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 02 02 Industrial Oily Debris โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 200 ตัน วิธีการกำจัด 042	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 02 02 Activated Carbon โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 100 ตัน วิธีการกำจัด 042	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 02 02 Activated carbon โดยมีผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 100 ตัน วิธีการกำจัด 041	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 07 08 Oily tank cleaning โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 100 ตัน วิธีการกำจัด 042	อนุญาต	
54926/2566	23/8/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 07 08 Oily Tank Cleaning โดยมีผู้รับดำเนินการคือ 3-106-16/56สน ปริมาณ 200 ตัน วิธีการกำจัด 042	อนุญาต	
54983/2566	9/9/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 02 02 Oily Sand โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 200 ตัน วิธีการกำจัด 044	อนุญาต	
56442/2566	23/9/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 08 04 Spent RFCCU Catalyst(Non) โดยมีผู้รับดำเนินการคือ 3-101-2/44สน ปริมาณ 2000 ตัน วิธีการกำจัด 044	เอกสารไม่เพียงพอ	25,99
56442/2566	23/9/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 08 04 Spent RFCCU Catalyst(Non) โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 500 ตัน วิธีการกำจัด 044	เอกสารไม่เพียงพอ	25,99
59702/2566	24/9/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 02 03 Air Filter Form Gas Turbine โดยมีผู้รับดำเนินการคือ ๑3-101-2/40สน ปริมาณ 50 ตัน วิธีการกำจัด 071	อนุญาต	
59702/2566	24/9/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 02 03 RO Membrane โดยมีผู้รับดำเนินการคือ ๑3-101-2/40สน ปริมาณ 50 ตัน วิธีการกำจัด 071	เอกสารไม่เพียงพอ	22,99
59101/2566	28/9/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 08 04 Spent RFCCU Catalyst(Non) โดยมีผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 2000 ตัน วิธีการกำจัด 044	เอกสารไม่เพียงพอ	99
59811/2566	1/10/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 12 01 16 Copper slag โดยมีผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 800 ตัน วิธีการกำจัด 044	อนุญาต	
59811/2566	1/10/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 12 01 16 Copper slag โดยมีผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 500 ตัน วิธีการกำจัด 044	อนุญาต	
59811/2566	1/10/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 12 01 16 Copper slag โดยมีผู้รับดำเนินการคือ 3-101-2/44สน ปริมาณ 500 ตัน วิธีการกำจัด 044	อนุญาต	
59811/2566	1/10/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 15 01 10 Empty Contaminated Lab Bottle โดยมีผู้รับดำเนินการคือ ๑3-101-2/40สน ปริมาณ 100 ตัน วิธีการกำจัด 073	อนุญาต	
64772/2566	4/10/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 08 04 Spent RFCCU Catalyst (Non) โดยมีผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 2000 ตัน วิธีการ	เอกสารไม่เพียงพอ	22,99

[illegible]

65916/2566	3/11/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 08 07 Spent Catalyst โดยมิผู้รับดำเนินการคือ 3-101-2/44สน ปริมาณ 300 ตัน วิธีการกำจัด 044	อนุญาต	
65916/2566	3/11/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 05 08 Asphalt โดยมิผู้รับดำเนินการคือ 3-106-8/49สน ปริมาณ 50 ตัน วิธีการกำจัด 042	เอกสารไม่เพียงพอ	22,99(1)
65916/2566	3/11/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 11 05 Refractory Brick โดยมิผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 200 ตัน วิธีการกำจัด 044	อนุญาต	
65916/2566	3/11/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 16 11 05 Refractory Brick โดยมิผู้รับดำเนินการคือ 3-106-71/53สน ปริมาณ 200 ตัน วิธีการกำจัด 044	อนุญาต	
65887/2566	3/11/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 05 01 16 Sulfur Waste โดยมิผู้รับดำเนินการคือ ๔3-101-2/40สน ปริมาณ 200 ตัน วิธีการกำจัด 071	อนุญาต	
70486/2566	3/11/66	ขอเพิ่มรายการวัสดุที่ไม่ใช่แล้ว รหัสวัสดุที่ไม่ใช่แล้ว 07 01 10 Coke โดยมิผู้รับดำเนินการคือ 3-101-3/44สน ปริมาณ 250 ตัน วิธีการกำจัด 041	เอกสารไม่เพียงพอ	22,99

วิธีการกำจัด

011	คัดแยกประเภทเพื่อจำหน่ายต่อ	064	บำบัดด้วยวิธีทางเคมีและฟิสิกส์
021	กักเก็บในภาชนะบรรจุ	065	บำบัดน้ำเสียด้วยวิธีทางเคมีกายภาพ
031	เป็นวัตถุอันตรายทดแทน	066	เข้าระบบบำบัดน้ำเสียรวม
032	ส่งกลับผู้ขายเพื่อกำจัด	067	ปรับเสถียรด้วยวิธีทางเคมี
033	ส่งกลับผู้ขายเพื่อนำกลับไปแปรจุใหม่หรือใช้ซ้ำ	068	ปรับเสถียร/ ครึ่งทางเคมีโดยใช้ซีเมนต์หรือวัสดุ pozzolanic
039	นำกลับมาใช้ซ้ำด้วยวิธีอื่นๆ	069	วิธีบำบัดอื่นๆ เพื่อลดค่าความเป็นอันตราย
041	เป็นเชื้อเพลิงทดแทน	071	ส่งกลับตามหลักสุขาภิบาล เฉพาะของเสียไม่อันตรายเท่านั้น
042	ทำเชื้อเพลิงผสม	072	ส่งกลับอย่างปลอดภัย
043	เผาเพื่อเอาพลังงาน	073	ส่งกลับอย่างปลอดภัย เมื่อทำการปรับเสถียรหรือทำให้เป็นก้อนแข็งแล้ว
044	เป็นวัตถุอันตรายทดแทนในเตาเผาปูนซีเมนต์	074	เผาทำลายในเตาเผาขยะทั่วไป
049	นำกลับมาใช้ประโยชน์อีกด้วยวิธีอื่นๆ	075	เผาทำลายในเตาเผาเฉพาะสำหรับของเสียอันตราย
051	เข้ากระบวนการนำตัวทำลายกลับมาใหม่	076	เผาทำลายร่วมในเตาเผาปูนซีเมนต์
052	เข้ากระบวนการนำโลหะกลับมาใหม่	077	อัดฉีดลงบ่อ ใต้ดิน หรือชั้นดินใต้ทะเล แบนเอกสารอนุญาตจากหน่วยงานอื่น
053	เข้ากระบวนการคืนสภาพกรด/ ด่าง	079	กำจัดด้วยวิธีอื่นๆ
054	เข้ากระบวนการคืนสภาพตัวเร่งปฏิกิริยา	081	รวบรวมและส่งออกนอกประเทศ
059	นำสิ่งปฏิกูลหรือวัตถุที่ไม่ใช่แล้วอื่นๆกลับเข้ามาใหม่	082	ถมทะเลหรือที่ลุ่ม เฉพาะของเสียไม่อันตรายเท่านั้น
061	บำบัดด้วยวิธีชีวภาพ	083	หมักทำปุ๋ยหรือเป็นสารปรับปรุงคุณภาพดิน เฉพาะของเสียไม่อันตรายเท่านั้น
062	บำบัดด้วยวิธีทางเคมี	084	ทำอาหารสัตว์ เฉพาะของเสียไม่อันตรายเท่านั้น
063	บำบัดด้วยวิธีทางกายภาพ		

เหตุการณ์ไม่อนุญาต

- ผู้รับดำเนินการไม่ได้รับอนุญาตให้ บำบัด/ กำจัด/นำกลับไปใช้ประโยชน์ใหม่
- วิธีการบำบัด/กำจัด/นำกลับไปใช้ประโยชน์ใหม่ ไม่เหมาะสม
- ผู้รับดำเนินการได้รับคำสั่งปรับปรุงตามกฎหมายตรา 37 หรือเหตุประกอบกิจการตามกฎหมายตรา 39 ตามพระราชบัญญัติโรงงาน
- ผู้รับดำเนินการไม่ยินยอมรับบำบัด/กำจัด/นำกลับไปใช้ประโยชน์ใหม่
- ไม่สามารถยื่นขออนุญาตฯ ผ่านสื่ออิเล็กทรอนิกส์ได้
- ผู้ให้บริการยังไม่ได้แจ้งประกอบกิจการโรงงาน หรือไม่ได้แจ้งประกอบภายในส่วนขยาย
- ไม่เข้าข้อต้องขออนุญาตตามประกาศกระทรวงอุตสาหกรรม เรื่อง การกำจัดสิ่งปฏิกูลหรือวัตถุที่ไม่ใช่แล้ว พ.ศ. 2548

เหตุการณ์อื่นๆ

- อื่นๆ ระบุ ..รหัสของเสีย 0501.xx..

เหตุผลที่ไม่สามารถพิจารณาได้ เนื่องจากขาดเอกสาร หรือเอกสารไม่

สมบูรณ์ ดังนี้

- สำเนาใบอนุญาตประกอบกิจการโรงงานของผู้รับดำเนินการ และหรือผู้ก่อกำเนิดวัตถุที่ไม่ใช่แล้ว
- สำเนาทะเบียนรังสีรองจกทะเบียนนิติบุคคลของผู้รับดำเนินการ และหรือผู้ก่อกำเนิดวัตถุที่ไม่ใช่แล้ว
- สัญญาหรือหนังสือยินยอมการบริการระหว่างผู้รับดำเนินการและผู้ก่อกำเนิดวัตถุที่ไม่ใช่แล้ว
- หนังสือการประกันความรับผิดชอบ (Liability) ระหว่างผู้รับดำเนินการและผู้ก่อกำเนิดวัตถุที่ไม่ใช่แล้ว
- หนังสือมอบอำนาจให้ผู้หนึ่งผู้ใดกระทำการใดๆ แทนกรรมการผู้มีอำนาจ พร้อมติดอากรแสตมป์ของผู้รับดำเนินการ และหรือ ผู้ก่อกำเนิดวัตถุที่ไม่ใช่แล้ว
- ผลวิเคราะห์ค่าความเข้มข้นทั้งหมดของสิ่งเจือปน (total concentration : mg/kg)
- ผลวิเคราะห์ด้วยวิธีการสกัดสาร (waste extraction test : mg/l)
- รายละเอียดกระบวนการผลิตพร้อมแสดงจุดที่เกิดของเสีย
- รายละเอียดกระบวนการนำของเสียมากำจัด/บำบัด/นำกลับมาใช้ประโยชน์ใหม่
- สำเนาใบอนุญาตส่งออกรีดอันตราย (วอ.6)
- หนังสือรับรองจากกรมวิชาการเกษตรในการทำปุ๋ยหรือสารปรับปรุงคุณภาพดิน
- รหัสของสิ่งปฏิกูลหรือวัตถุที่ไม่ใช่แล้วไม่ถูกต้อง
- รหัสของวิธีการกำจัดไม่ถูกต้อง
- การลงนามของกรรมการผู้มีอำนาจในคำขอ/สัญญาทอ.1 ไม่ครบถ้วนตามเงื่อนไขในหนังสือรับรองการจดทะเบียนนิติบุคคล
- เอกสารข้อมูลความปลอดภัย

- หากท่านจงใจดำเนินาสิ่งปฏิกูลหรือวัตถุที่ไม่ใช่แกว่อกนออกบริเวณโรงงานโดยไม่ได้รับอนุญาต ถือเป็นการคิดตามมาตรา 45 แห่งพระราชบัญญัติโรงงาน พ.ศ.2535 ต้องระวางโทษปรับไม่เกิน 2 แสนบาท

หมายเหตุ

- กรณีไม่อนุญาต หากท่านไม่เห็นด้วย สามารถแจ้งเป็นหนังสือพร้อมเหตุผลไปยังอธิบดีกรมโรงงานอุตสาหกรรมภายใน 15 วัน นับตั้งแต่วันที่ได้รับแจ้งคำสั่งทางการปกครองนี้



การขออนุญาตให้นำสิ่งปฏิกูลที่ไม่ใช่แล้วออกนอกบริเวณโรงงาน (กอ.1)
1 มกราคม 2567 - 31 ธันวาคม 2567

หนังสือแจ้งผลการพิจารณา

การขออนุญาตให้นำสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วออกนอกบริเวณโรงงาน

กรมโรงงานอุตสาหกรรม

เลขที่ 2567-อ-13055

หนังสือฉบับนี้ออกให้เพื่อแจ้งผลการพิจารณาของ

บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

ทะเบียนโรงงานเลขที่ 72070200125371

โดยมีรายละเอียดผลการพิจารณาดังนี้

ลำดับที่	รหัสสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	ปริมาณ(ตัน)	รหัสการจัดการ	ผู้รับดำเนินการ	เหตุผล
1	050106	oily sludge	416.667	041	10190000225448	
2	050106	oily sludge	416.667	041	10190000325446	
3	050106	Waste oily Sludge	833.333	042	10190000825494	
4	050106	oily sludge	534.958	042	10190107125533	
5	050109	Dry Basin Sludge	416.667	044	10190000225448	
6	050109	Dry Basin Sludge	416.667	044	10190000325446	
7	050109	Dry Basin Sludge	416.667	044	10190107125533	
8	050116	Sulfur Waste	166.667	071	20190300225401	
9	120116	Copper slag	416.667	044	10190000225448	
10	120116	Copper slag	666.667	044	10190000325446	
11	120116	Copper slag	416.667	044	10190107125533	
12	150110	Empty Contaminated Lab Bottle	83.333	073	20190300225401	
13	150110	Contaminated Container	83.333	049	72080000125455	
14	150202	Oily Sand	416.667	044	10190000225448	
15	150202	Activated carbon	83.333	041	10190000325446	
16	150202	Oily Sand	416.667	044	10190000325446	
17	150202	Industrial Oily Debris / Activated Carbon	247.142	042	10190107125533	
18	150202	Oily Sand	166.667	044	10190107125533	
19	150203	Air Filter Form Gas Turbine	41.667	071	20190300225401	
20	160213	Electronic waste	83.333	049	72080000125455	
21	160215	Fluorescent Lamp	16.667	049	72080000125455	
22	160708	Oily Sludge	1,482.733	042	72080000125455	
23	160708	Oily Tank Cleaning	833.333	076	10190000325446	
24	160708	Oily Tank Cleaning	166.667	042	10190001625562	
25	160708	Oily tank cleaning	83.333	042	10190107125533	
26	160802	Spent RFCCU Catalyst	833.333	044	10190000225448	
27	160802	Spent RFCCU Catalyst	1,666.667	044	10190000325446	

28	160802	Spent RFCCU Catalyst	416.667	044	10190107125533	
29	160807	Spent Catalyst	250.000	044	10190000225448	
30	160807	Spent Catalyst	250.000	044	10190000325446	
31	160807	Spent Catalyst	83.333	044	10190107125533	
32	161105	Refractory Brick	166.667	044	10190000325446	
33	161105	Refractory Brick	166.667	044	10190107125533	
34	170203	Rubber hose	16.667	071	20190300225401	
35	170603	Insulation	80.342	044	10190000325446	
36	190999	RO Membrane	41.667	071	20190300225401	
37	140603	Expired Chemicals	60.000	042	10190000825494	
38	160305	Asphalt	60.000	042	10190000825494	
39	191212	Rubber hose	200.000	011	10190107125533	
40	050118	Coke	240.000	041	10190000325446	
41	130703	น้ำมันปนเปื้อน (Mixed Fuel waste)	1,800.000	042	10200000425524	

รายการที่ได้รับอนุญาตมีผลบังคับใช้ตั้งแต่วันที่ 1 มกราคม 2567 ถึงวันที่ 31 ธันวาคม 2567

ออกให้ ณ วันที่ 1 มกราคม 2567

โดยกรมโรงงานอุตสาหกรรม

หนังสือแจ้งผลการพิจารณาฉบับนี้อนุญาตโดยใช้ระบบอิเล็กทรอนิกส์



รหัสการจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว

- 011 คัดแยกประเภทเพื่อจำหน่ายต่อ (sorting)
021 เก็บไว้ในถาวรบรรจุ (storage) ให้ระบุลักษณะการเก็บและถาวรบรรจุ
031 นำกลับมาใช้ซ้ำ (reuse) ตามวัตถุประสงค์เดิมของวัสดุที่ไม่ใช่แล้วนั้น ๆ
032 ส่งกลับผู้ขายเพื่อกำจัด (return to original producer for disposal) ให้ระบุชื่อผู้ขายที่รับคืน
033 นำบรรจุภัณฑ์กลับไม่บรรจุใหม่หรือใช้ซ้ำ (reuse container, to be refilled) ให้ระบุชื่อผู้ขายที่รับคืน
036 นำกลับมาใช้ซ้ำด้วยวิธีอื่น ๆ (other reuse methods) ตามวัตถุประสงค์เดิมของวัสดุที่ไม่ใช่แล้วนั้น ๆ ให้ระบุ
041 ใช้เป็นเชื้อเพลิงทดแทน (use as fuel substitution or burn for energy recovery) โดยตรงในเตาเผา (incinerator) หรือเตาอุตสาหกรรมซีเมนต์ (cement industrial furnace)
042 ทำเชื้อเพลิงผสม (fuel blending) เพื่อนำไปใช้เป็นเชื้อเพลิงสำหรับเตาเผา (incinerator) เตาอุตสาหกรรมซีเมนต์ (cement industrial furnace) หรือหม้อไอน้ำและเตาอุตสาหกรรม (boiler and industrial furnace) ระบุปลายทาง
043 เผาเพื่อใช้เป็นพลังงาน (burn for energy recovery) เฉพาะวัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตราย สำหรับเตาไฟฟ้า (stove) หรือหม้อไอน้ำและเตาอุตสาหกรรม (boiler and industrial furnace)
044 ใช้เป็นวัตถุดิบทดแทน (use as raw material substitution) ในเตาอุตสาหกรรมซีเมนต์ (cement industrial furnace)
045 ทำวัสดุผสม (material blending) เพื่อใช้เป็นวัตถุดิบทดแทน (use as raw material substitution) ในเตาอุตสาหกรรมซีเมนต์ (cement industrial furnace) ระบุปลายทาง
046 ทำเชื้อเพลิงทดแทนจากวัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตราย สำหรับเตาอุตสาหกรรม เพื่อใช้ผลิตกระแสไฟฟ้าโดยเฉพาะ (use as fuel blending for energy recovery) ระบุปลายทาง
047 ใช้วัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตราย เพื่อใช้เป็นเชื้อเพลิงทดแทนโดยตรงในเตาเผา (incinerator) เพื่อผลิตกระแสไฟฟ้า
048 ใช้วัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตราย เพื่อใช้เป็นเชื้อเพลิงทดแทนโดยตรง ในเตาเผา (incinerator) เพื่อผลิตกระแสไฟฟ้า
049 นำกลับมาใช้ประโยชน์ด้วยวิธีอื่น ๆ (other recycle methods)
051 เข้ามารวมการบำบัดน้ำทะเลสาบกลับใหม่ (solvent reclamation/regeneration)
052 เข้ามารวมการบำบัดโลหะกลับใหม่ (reclamation/regeneration of metal and metal compounds)
053 เข้ามารวมการคืนสภาพกรด/ด่าง (acid/base regeneration)
054 เข้ามารวมการคืนสภาพตัวเร่งปฏิกิริยา (catalyst regeneration)
055 เข้ามารวมการคืนสภาพ ด้านกัมมันต์ใช้งานแล้ว (spent activated carbon regeneration)
057 เข้ามารวมการคืนสภาพทรายผกผันแบบที่ใช้งานแล้ว (spent green sand / no bake sand regeneration)
059 วัสดุที่ไม่ใช่แล้วอื่น ๆ กลับคืนมาใหม่ (other recovery unlisted materials) ให้ระบุ
061 บำบัดด้วยวิธีชีวภาพ (biological treatment) หรือวิธีเคมีชีวภาพ (chemical biological treatment)
062 บำบัดด้วยวิธีชีวภาพ (biological treatment) เพื่อใช้กำจัดภาพหรือก๊าซไฮโดรเจนเป็นพลังงาน
063 บำบัดด้วยวิธีทางเคมี (chemical treatment) หรือนำมาบำบัดวิธีทางกายภาพ (physical treatment) หรือนำมาบำบัดวิธีทางเคมีกายภาพ (physico-chemical treatment)
065 บำบัดน้ำเสียด้วยวิธีทางเคมีกายภาพ (physico-chemical treatment of wastewater)
066 เข้ามารวมบำบัดน้ำเสียรวม (discharge into central wastewater treatment plant)
067 ปรับเสถียรด้วยวิธีทางเคมี (chemical stabilization)
068 ปรับเสถียรหรือตรึงทางเคมีโดยใช้ปูนซีเมนต์หรือวัสดุ pozzolanic (chemical fixation using cementitious and/or pozzolanic material)
069 ใช้วิธีบำบัดอื่น ๆ เพื่อทำลายความเป็นพิษ (other detoxification methods) ให้ระบุ
071 ผักกอกตามหลักสุขภาพ (sanitary landfill) เฉพาะสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ที่เป็นของเสียอันตรายเท่านั้น
072 ผักกอกอย่างปลอดภัย (secure landfill)
073 ผักกอกอย่างปลอดภัย เนื่องจากการปรับเสถียรหรือทำให้เป็นก้นบึ้งแน่น (secure landfill of stabilized and/or solidified wastes)
074 เผาทำลาย (burn for destruction) ในเตาเผาขยะชุมชน หรือเตาเผาเฉพาะสำหรับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตรายเท่านั้น
075 เผาทำลายในเตาเผาเฉพาะสำหรับของเสียอันตราย (burn for destruction in hazardous waste incinerator)
076 เผาทำลายรวมในเตาอุตสาหกรรมซีเมนต์ (co-incineration in cement kiln)
077 ฉีดลงบ่อน้ำใต้ดิน หรือฉีดในใต้ทะเล (deep well or underground injection; sea-bed insertion)
079 กำจัดด้วยวิธีอื่น ๆ (other disposal methods) ให้ระบุ
081 รวบรวมและส่งออกนอกประเทศ (collect and export)
082 ถมทะเลหรือฟื้นฟู (land reclamation) เฉพาะวัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตรายเท่านั้น
083 หมักทำปุ๋ยหรือการปรับปรุงสภาพดิน (composting or soil conditioner) เฉพาะสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตรายเท่านั้น
084 ทาอาหารสัตว์ (animal feed) เฉพาะสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วที่เป็นของเสียอันตรายเท่านั้น

สรุปปริมาณกากของเสีย
ระหว่างเดือนมกราคม ถึงมิถุนายน พ.ศ.2567

สรุปชนิด ปริมาณ วิธีการกำจัด และบริษัทผู้รับกำจัดกากของเสีย ช่วงมกราคม - มิถุนายน ประจำปี 2024

โครงการทำเทียบเรือ

ขยะทั่วไป

ลำดับที่	ชื่อสิ่งปฏิกูลและขยะมูลฝอย	Jan	Feb	Mar	Apr	May	Jun	Total	วิธีการกำจัด	ผู้รับดำเนินการ
1	ขยะมูลฝอย (Kg)	200	200	400	300	400	200	1700	ฝังกลบตามหลักสุขาภิบาล	เทศบาลเมืองมาบตาพุด
2	เศษไม้ (Kg)	0	200	0	0	0	0	200	คัดแยกประเภทเพื่อจำหน่ายต่อ	บริษัท สามเค รีไซเคิล จำกัด
รวมทั้งสิ้น		200	400	400	300	400	200	1900		

ขยะไม่อันตราย

ลำดับที่	ชื่อสิ่งปฏิกูลและขยะมูลฝอย	Jan	Feb	Mar	Apr	May	Jun	Total	วิธีการกำจัด	ผู้รับดำเนินการ
1	ผ้าปนเปื้อนน้ำมัน (Kg)	500	500	400	500	300	300	2500	ทำเป็นเชื้อเพลิงผสม (Fuel Blending)	บริษัท SCCC / TARF
รวมทั้งสิ้น		500	500	400	500	300	300	2500		

เอกสารแสดงการจัดการ (Manifest Form)

เอกสารแสดงการจัดการ (Manifest Form)					
ส่วนที่ ๑ ผู้ก่อกำเนิด					
ชื่อผู้ก่อกำเนิด : บริษัท สดาร์ บีโตร์เลียม รีไฟน์นิ่ง จำกัด (มหาชน)			เลขทะเบียนโรงงาน : 72070200125371		
สถานที่ตั้งโรงงาน : 1 หมู่ที่ null ถนนโอ-สามบี ตำบลมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง 21150					
เบอร์โทรศัพท์ติดต่อ :			เบอร์โทรติดต่อฉุกเฉิน :		
ผู้ได้รับมอบหมายให้ขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว :					
ชื่อผู้ขับขี :		เลขทะเบียนพาหนะ :		พาหนะที่ใช้ : รถพ่วง	
โดยขนส่งจากจังหวัด : ระยอง		ไปยังจังหวัด : สระบุรี		ใช้ระยะเวลาประมาณ : 1 วัน	
ผู้รับดำเนินการ : บริษัท ทีเออาร์เอฟ จำกัด			เลขทะเบียนโรงงาน (ถ้ามี) : 10190107125533		
สถานที่ตั้ง : 83/1 หมู่ที่ 7 ถนนแก่งคอย-บ้านนา (3222) ตำบลชำผักแพว อำเภอแก่งคอย จังหวัดสระบุรี 18110					
เบอร์โทรศัพท์ติดต่อ :			เบอร์โทรติดต่อฉุกเฉิน :		
รายละเอียดของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว ที่ขนส่ง :					
ลำดับ	ชื่อสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว	รหัสประเภท หรือชนิด	ภาชนะบรรจุ		ปริมาณ (ตัน)
			ชนิด	จำนวน	
1	Industrial Oily Debris	150202	Roll off	1	3.51 4.0
รวมปริมาณทั้งหมด : ของเหลว 0 ตัน ของแข็ง 4 ตัน ของแข็งกึ่งเหลว 0 ตัน					
[] น้ำหนักจริง [X] น้ำหนักประมาณการ 3.51					
ขอความร่วมมือระหว่างการขนส่ง :					
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้ส่งมอบสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น			ปริมาณที่ส่งมอบ : 4 ตัน 3.51 นน. ซึ่งจริง.		
ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม			วันที่ส่งมอบ : 15/05/2567		
และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ			เวลาที่ส่งมอบ : 10.15 น.		
ลงชื่อผู้ก่อกำเนิด : [] ลายมือชื่อ : [] วันที่ : 15/5/67					
ส่วนที่ ๒ รายละเอียดการขนส่งสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว					
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้รับสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม และการขนส่งจะปฏิบัติตามข้อกำหนดของกฎหมายทุกประการ					
ลงชื่อผู้ขับขี : [] ลายมือชื่อ : [] วันที่ : 15/05/67					
[] ผู้ก่อกำเนิดได้แนบภาพถ่ายเอกสารการจัดการที่มีการลงนามในส่วนที่ ๑ และส่วนที่ ๒ ครบถ้วนถูกต้องแล้ว					
ส่วนที่ ๓ ผู้รับดำเนินการ					
ชื่อผู้รับดำเนินการ : บริษัท ทีเออาร์เอฟ จำกัด			เลขทะเบียนโรงงาน (ถ้ามี) : 10190107125533		
ส่วนที่ ๓/๑			ขนส่งจากจังหวัด : ระยอง มายังจังหวัด : สระบุรี		
คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว			ใช้ระยะเวลา : 1 วัน		
ตามที่ระบุข้างต้นมาถึงสถานที่รับจัดการ			วันที่มาถึง : 15/5/67		
ลงชื่อผู้รับดำเนินการ : [] ลายมือชื่อ : []			เวลาที่มาถึง : 16:04 น.		
ส่วนที่ ๓/๒			ปริมาณที่รับมอบ : 3 ตัน		
คำรับรอง : ข้าพเจ้าขอรับรองว่ารับจัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น			[X] น้ำหนักจริง [] น้ำหนักประมาณการ		
ซึ่งมีการบรรจุ ติดป้าย หรือฉลากอย่างเหมาะสม			วันที่รับมอบ : 16/5/67 เวลาที่มอบ : 09.00		
ลงชื่อผู้รับดำเนินการ : [] ลายมือชื่อ : [] วันที่ : 16/5/2567			[] ภาพถ่ายสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว และ/หรือ		
			[X] เอกสารแสดงลักษณะสำคัญของสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว		
ส่วนที่ ๓/๓			ปริมาณที่จัดการแล้วเสร็จ : 3 ตัน		
คำรับรอง : ข้าพเจ้าขอรับรองว่าได้จัดการสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้ว			วันที่จัดการแล้วเสร็จ : 16/5/67 เวลาที่จัดการแล้วเสร็จ : 11 น.		
ตามที่ระบุข้างต้นแล้วเสร็จตามที่ได้รับอนุญาต			ปริมาณคงเหลือ : [] ตัน		
ลงชื่อผู้รับดำเนินการ : [] ลายมือชื่อ : [] วันที่ : 16/5/67			[X] ภาพถ่ายเอกสารการจัดการที่ลงนามครบถ้วนถูกต้อง		
ส่วนที่ ๔ ผู้ก่อกำเนิดสรุปผลการจัดการ					
คำรับรอง : ข้าพเจ้าขอรับรองว่าสิ่งปฏิกูลหรือวัสดุที่ไม่ใช่แล้วตามที่ระบุข้างต้น					
[X] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๓)					
[] ได้รับการจัดการแล้วเสร็จตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๕)					
[] ได้รับคืนจากผู้รับดำเนินการแล้ว (ส่วนที่ ๖)					
[] ได้รับการจัดการแล้วเสร็จโดยผู้รับจัดการรายใหม่ตามที่ได้รับอนุญาตแล้ว (ส่วนที่ ๗)					
ลงชื่อผู้ก่อกำเนิด : [] ลายมือชื่อ : [] วันที่ : 30/05/67					

การตรวจติดตามบริษัทผู้รับกำจัดกากของเสีย

การตรวจติดตามรับกำจัดของเสียประจำปี 2567



บริษัท บีเอ็มที เอเชีย จำกัด วันที่ 31 พฤษภาคม 2567

ภาคผนวก ข.13

รายงานการติดตามยานพาหนะ



บริษัท ทีเออาร์เอฟ จำกัด

ข้อมูล GPS วันที่ : 17/05/2024

ใบกำกับการขนส่งเลขที่ : S03882/11905670725120N

ทะเบียนรถ :

พนักงานขับรถ:

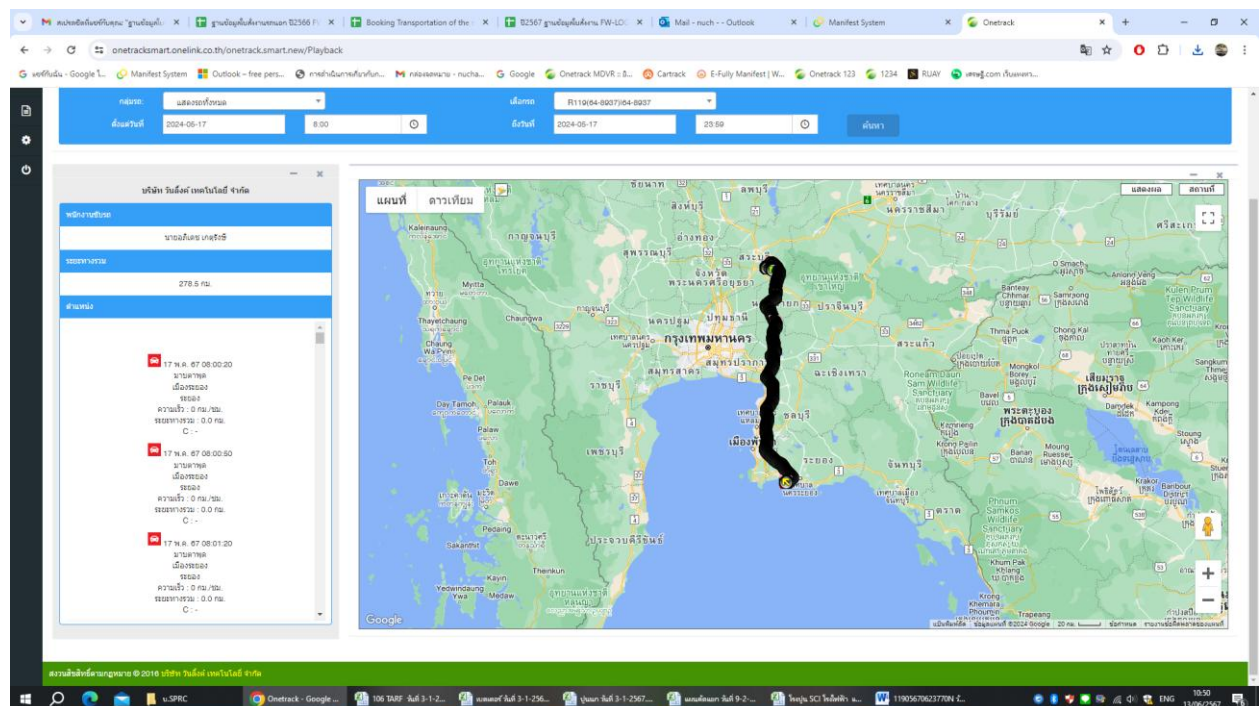
ปลายทางผู้รับกำจัด : บริษัท เบตเตอร์ เวิลด์ กรีน จำกัด(มหาชน)

ชื่อลูกค้า : บริษัท สตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด

ที่อยู่ : 1 ถ.ไอ-3 บี นิคมอุตสาหกรรมมาบตาพุด อ.เมือง จ.ระยอง

Waste Name: Oily Sludge

ตารางการเดินรถ



รายงาน: รายละเอียดการเดินทาง

พนักงานขับรถ:

ทะเบียน:

รหัสรถ:

ตั้งแต่: 17 พ.ค. 67 (ศ.) 8:00

ถึง: 17 พ.ค. 67 (ศ.) 23:59

จุดดับเครื่อง

จุดติดเครื่อง

เส้นทาง

ความเร็วเกินกำหนด

วันที่, เวลา	วันที่, เวลา เริ่มจอด	วันที่, เวลา สิ้นสุด	รวมเวลาจอด	เซนเซอร์					ความเร็ว	ระยะทาง	ระยะทางรวม	อุณหภูมิ	สถานี	สถานที่		
				1	2	3	4	A						ตำบล	อำเภอ	จังหวัด
17 พ.ค. 67 08:21:50	17 พ.ค. 67 08:00:20	17 พ.ค. 67 08:30:57	0 วัน 00 ชม 30 นาที	0	0	0	0		0	0.0	0.0	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 08:30:57	null	null	-	0	0	0	0		0	0.0	0.0	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 08:35:57	null	null	-	0	0	0	0		0	0.0	0.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 08:40:57	null	null	-	0	0	0	0		0	0.0	0.4	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 08:45:57	null	null	-	0	0	0	0		23	0.2	1.6	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 08:50:57	null	null	-	0	0	0	0		0	0.0	2.8	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 08:55:57	null	null	-	0	0	0	0		0	0.0	2.9	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 09:00:52	null	null	-	0	0	0	0		4	0.0	2.9	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 09:05:51	null	null	-	0	0	0	0		2	0.0	3.0	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:07:27	17 พ.ค. 67 09:08:27	17 พ.ค. 67 10:07:57	0 วัน 00 ชม 59 นาที	0	0	0	0		0	0.0	3.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:07:57	null	null	-	0	0	0	0		0	0.0	3.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:12:54	null	null	-	0	0	0	0		1	0.0	3.2	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:17:57	null	null	-	0	0	0	0		23	0.1	3.4	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:22:57	null	null	-	0	0	0	0		25	0.2	5.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:27:57	null	null	-	0	0	0	0		0	0.0	5.7	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:32:52	null	null	-	0	0	0	0		4	0.0	5.7	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:37:57	null	null	-	0	0	0	0		0	0.0	6.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:42:57	null	null	-	0	0	0	0		0	0.0	6.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:51:27	17 พ.ค. 67 10:43:57	17 พ.ค. 67 10:51:57	0 วัน 00 ชม 08 นาที	0	0	0	0		0	0.0	6.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:51:57	null	null	-	0	0	0	0		7	0.0	6.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 10:56:57	null	null	-	0	0	0	0		0	0.0	6.1	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:01:57	null	null	-	0	0	0	0		0	0.0	6.1	-		มาบตาพุด	เมืองระยอง	ระยอง

วันที่, เวลา	วันที่, เวลา เริ่มจอด	วันที่, เวลา สิ้นสุด	รวมเวลาจอด	เซนเซอร์					ความเร็ว	ระยะทาง	ระยะทางรวม	อุณหภูมิ	สถานี	สถานที่		
				1	2	3	4	A						ตำบล	อำเภอ	จังหวัด
17 พ.ค. 67 11:06:57	null	null	-	0	0	0	0		0	0.0	6.4	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:11:57	null	null	-	0	0	0	0		0	0.0	6.4	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:16:57	null	null	-	0	0	0	0		39	0.1	6.9	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:21:57	null	null	-	0	0	0	0		0	0.0	9.9	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:26:57	null	null	-	0	0	0	0		70	0.6	13.5	-		เนินพระ	เมืองระยอง	ระยอง
17 พ.ค. 67 11:31:57	null	null	-	0	0	0	0		65	0.5	18.8	-		ทับมา	เมืองระยอง	ระยอง
17 พ.ค. 67 11:36:57	null	null	-	0	0	0	0		73	0.6	24.5	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:41:57	null	null	-	0	0	0	0		48	0.4	29.7	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:46:57	null	null	-	0	0	0	0		74	0.7	34.2	-		มาบตาพุด	เมืองระยอง	ระยอง
17 พ.ค. 67 11:51:57	null	null	-	0	0	0	0		80	0.6	40.2	-		โป่ง	บางละมุง	ชลบุรี
17 พ.ค. 67 11:56:57	null	null	-	0	0	0	0		72	0.5	45.8	-		โป่ง	บางละมุง	ชลบุรี
17 พ.ค. 67 12:01:57	null	null	-	0	0	0	0		69	0.6	52.2	-		โป่ง	บางละมุง	ชลบุรี
17 พ.ค. 67 12:06:57	null	null	-	0	0	0	0		61	0.6	56.3	-		หนองปลาไหล	บางละมุง	ชลบุรี
17 พ.ค. 67 12:11:57	null	null	-	0	0	0	0		73	0.6	62.6	-		บึง	ศรีราชา	ชลบุรี
17 พ.ค. 67 12:16:57	null	null	-	0	0	0	0		75	0.6	68.5	-		บึง	ศรีราชา	ชลบุรี
17 พ.ค. 67 12:21:57	null	null	-	0	0	0	0		70	0.6	74.3	-		สุรศักดิ์	ศรีราชา	ชลบุรี
17 พ.ค. 67 12:26:57	null	null	-	0	0	0	0		74	0.6	80.2	-		บางพระ	ศรีราชา	ชลบุรี
17 พ.ค. 67 12:31:57	null	null	-	0	0	0	0		58	0.5	86.0	-		บางพระ	ศรีราชา	ชลบุรี
17 พ.ค. 67 12:36:57	null	null	-	0	0	0	0		72	0.6	92.1	-		หนองขาคอก	เมืองชลบุรี	ชลบุรี
17 พ.ค. 67 12:41:57	null	null	-	0	0	0	0		64	0.6	96.2	-		หนองรี	เมืองชลบุรี	ชลบุรี
17 พ.ค. 67 12:46:57	null	null	-	0	0	0	0		74	0.6	102.3	-		นาป่า	เมืองชลบุรี	ชลบุรี
17 พ.ค. 67 12:51:57	null	null	-	0	0	0	0		67	0.6	108.1	-		ดอนหัวฬ่อ	เมืองชลบุรี	ชลบุรี
17 พ.ค. 67 12:56:57	null	null	-	0	0	0	0		73	0.6	113.8	-		บางนาง	พานทอง	ชลบุรี
17 พ.ค. 67 13:01:57	null	null	-	0	0	0	0		67	0.6	118.4	-		เขาหิน	บางปะกง	ฉะเชิงเทรา
17 พ.ค. 67 13:06:57	null	null	-	0	0	0	0		7	0.2	123.6	-		ท่าสะอ้าน	บางปะกง	ฉะเชิงเทรา
17 พ.ค. 67 13:11:57	null	null	-	0	0	0	0		69	0.6	127.6	-		แสนภูดาษ	บ้านโพธิ์	ฉะเชิงเทรา
17 พ.ค. 67 13:16:57	null	null	-	0	0	0	0		40	0.2	132.3	-		คลองประเวศ	บ้านโพธิ์	ฉะเชิงเทรา
17 พ.ค. 67 13:21:57	null	null	-	0	0	0	0		12	0.1	136.2	-		บางพระ	เมืองฉะเชิงเทรา	ฉะเชิงเทรา
17 พ.ค. 67 13:26:57	null	null	-	0	0	0	0		73	0.6	139.2	-		หน้าเมือง	เมืองฉะเชิงเทรา	ฉะเชิงเทรา

วันที่, เวลา	วันที่,เวลา เริ่มจอด	วันที่,เวลา สิ้นสุด	รวมเวลาจอด	เซนเซอร์					ความเร็ว	ระยะทาง	ระยะทางรวม	อุณหภูมิ	สถานี	สถานที่		
				1	2	3	4	A						ตำบล	อำเภอ	จังหวัด
17 พ.ค. 67 13:31:57	null	null	-	0	0	0	0		69	0.6	144.9	-		วังตะเคียน	เมืองจะเข้เกรา	จะเข้เกรา
17 พ.ค. 67 13:36:57	null	null	-	0	0	0	0		61	0.5	148.3	-		ท่าไข่	เมืองจะเข้เกรา	จะเข้เกรา
17 พ.ค. 67 13:41:57	null	null	-	0	0	0	0		35	0.2	151.8	-		บางขวัญ	เมืองจะเข้เกรา	จะเข้เกรา
17 พ.ค. 67 13:46:57	null	null	-	0	0	0	0		49	0.4	156.0	-		โพรงอากาศ	บางน้ำเปรี้ยว	จะเข้เกรา
17 พ.ค. 67 13:51:57	null	null	-	0	0	0	0		46	0.4	160.4	-		บางน้ำเปรี้ยว	บางน้ำเปรี้ยว	จะเข้เกรา
17 พ.ค. 67 13:56:57	null	null	-	0	0	0	0		62	0.5	163.1	-		หมอนทอง	บางน้ำเปรี้ยว	จะเข้เกรา
17 พ.ค. 67 14:01:57	null	null	-	0	0	0	0		67	0.5	168.6	-		สิงโตทอง	บางน้ำเปรี้ยว	จะเข้เกรา
17 พ.ค. 67 14:06:57	null	null	-	0	0	0	0		67	0.5	174.0	-		ดอนเกาะกา	บางน้ำเปรี้ยว	จะเข้เกรา
17 พ.ค. 67 14:11:57	null	null	-	0	0	0	0		65	0.6	178.5	-		พระอาจารย์	องครักษ์	นครนายก
17 พ.ค. 67 14:16:57	null	null	-	0	0	0	0		58	0.4	181.4	-		บางลูกเสือ	องครักษ์	นครนายก
17 พ.ค. 67 14:21:57	null	null	-	0	0	0	0		61	0.5	186.2	-		บางลูกเสือ	องครักษ์	นครนายก
17 พ.ค. 67 14:26:57	null	null	-	0	0	0	0		64	0.5	191.4	-		องครักษ์	องครักษ์	นครนายก
17 พ.ค. 67 14:31:57	null	null	-	0	0	0	0		31	0.1	195.2	-		คลองใหญ่	องครักษ์	นครนายก
17 พ.ค. 67 14:36:57	null	null	-	0	0	0	0		69	0.6	200.6	-		บางปลากรด	องครักษ์	นครนายก
17 พ.ค. 67 14:41:57	null	null	-	0	0	0	0		65	0.5	206.3	-		ทองหลาง	บ้านนา	นครนายก
17 พ.ค. 67 14:46:57	null	null	-	0	0	0	0		66	0.5	210.7	-		ทองหลาง	บ้านนา	นครนายก
17 พ.ค. 67 14:51:57	null	null	-	0	0	0	0		47	0.3	215.6	-		บ้านนา	บ้านนา	นครนายก
17 พ.ค. 67 14:56:57	null	null	-	0	0	0	0		60	0.5	220.3	-		ป่าชะ	บ้านนา	นครนายก
17 พ.ค. 67 15:01:57	null	null	-	0	0	0	0		67	0.6	225.8	-		เขาเพิ่ม	บ้านนา	นครนายก
17 พ.ค. 67 15:06:57	null	null	-	0	0	0	0		67	0.5	231.3	-		ชะอม	แก่งคอย	สระบุรี
17 พ.ค. 67 15:11:57	null	null	-	0	0	0	0		58	0.5	236.7	-		ชะอม	แก่งคอย	สระบุรี
17 พ.ค. 67 15:16:57	null	null	-	0	0	0	0		17	0.0	240.5	-		ท่ามะปราง	แก่งคอย	สระบุรี
17 พ.ค. 67 15:21:57	null	null	-	0	0	0	0		46	0.4	244.3	-		ห้วยแห้ง	แก่งคอย	สระบุรี
17 พ.ค. 67 15:26:57	null	null	-	0	0	0	0		38	0.3	248.1	-		ห้วยแห้ง	แก่งคอย	สระบุรี
17 พ.ค. 67 15:31:57	null	null	-	0	0	0	0		27	0.2	251.1	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 15:36:57	null	null	-	0	0	0	0		0	0.0	251.7	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 15:41:57	null	null	-	0	0	0	0		0	0.0	251.7	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 15:46:57	null	null	-	0	0	0	0		0	0.0	251.7	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 15:51:57	null	null	-	0	0	0	0		0	0.0	251.7	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี

วันที่, เวลา	วันที่,เวลา เริ่มจอด	วันที่,เวลา สิ้นสุด	รวมเวลาจอด	เซนเซอร์					ความเร็ว	ระยะทาง	ระยะทางรวม	อุณหภูมิ	สถานี	สถานที่		
				1	2	3	4	A						ตำบล	อำเภอ	จังหวัด
17 พ.ค. 67 15:56:57	null	null	-	0	0	0	0		0	0.0	252.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:01:57	null	null	-	0	0	0	0		5	0.0	252.6	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:06:57	null	null	-	0	0	0	0		0	0.0	252.6	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:11:57	null	null	-	0	0	0	0		0	0.0	252.6	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:16:57	null	null	-	0	0	0	0		18	0.0	253.6	-		ห้วยแห้ง	แก่งคอย	สระบุรี
17 พ.ค. 67 16:21:57	null	null	-	0	0	0	0		12	0.0	254.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:26:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:31:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:36:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:41:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:46:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:51:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 16:56:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:01:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:06:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:11:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:16:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:21:57	null	null	-	0	0	0	0		0	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:26:57	null	null	-	0	0	0	0		6	0.0	254.5	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:31:57	null	null	-	0	0	0	0		0	0.0	254.9	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:36:57	null	null	-	0	0	0	0		0	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:41:57	null	null	-	0	0	0	0		0	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:46:57	null	null	-	0	0	0	0		0	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:51:52	null	null	-	0	0	0	0		2	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 17:56:57	null	null	-	0	0	0	0		0	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 18:01:52	null	null	-	0	0	0	0		1	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 18:06:57	null	null	-	0	0	0	0		0	0.0	255.3	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 18:11:55	null	null	-	0	0	0	0		1	0.0	255.8	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 18:16:57	null	null	-	0	0	0	0		13	0.0	256.1	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี

วันที่, เวลา	วันที่,เวลา เริ่มจอด	วันที่,เวลา สิ้นสุด	รวมเวลาจอด	เซนเซอร์					ความเร็ว	ระยะทาง	ระยะทางรวม	อุณหภูมิ	สถานี	สถานที่		
				1	2	3	4	A						ตำบล	อำเภอ	จังหวัด
17 พ.ค. 67 18:21:57	null	null	-	0	0	0	0		0	0.0	257.0	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 18:26:53	null	null	-	0	0	0	0		6	0.0	257.0	-		หนองปลาไหล	เมืองสระบุรี	สระบุรี
17 พ.ค. 67 18:31:57	null	null	-	0	0	0	0		43	0.3	259.2	-		ห้วยแห้ง	แก่งคอย	สระบุรี
17 พ.ค. 67 18:36:57	null	null	-	0	0	0	0		39	0.3	263.1	-		ห้วยแห้ง	แก่งคอย	สระบุรี
17 พ.ค. 67 18:41:57	null	null	-	0	0	0	0		64	0.5	266.8	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 18:46:52	null	null	-	0	0	0	0		17	0.0	270.5	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 18:51:57	null	null	-	0	0	0	0		0	0.0	274.5	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 18:56:57	null	null	-	0	0	0	0		0	0.0	274.8	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 19:01:57	null	null	-	0	0	0	0		0	0.0	274.8	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 19:06:57	null	null	-	0	0	0	0		0	0.0	274.8	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 19:11:57	null	null	-	0	0	0	0		53	0.4	276.9	-		ท่ามะพร้าว	แก่งคอย	สระบุรี
17 พ.ค. 67 19:16:57	null	null	-	0	0	0	0		0	0.0	278.3	-		ข้าศึกแพว	แก่งคอย	สระบุรี
17 พ.ค. 67 19:21:57	null	null	-	0	0	0	0		0	0.0	278.5	-		ข้าศึกแพว	แก่งคอย	สระบุรี
17 พ.ค. 67 20:26:57	17 พ.ค. 67 19:22:27	17 พ.ค. 67 20:26:57	0 วัน 01 ชม 04 นาที	0	0	0	0		0	0.0	278.5	-		ข้าศึกแพว	แก่งคอย	สระบุรี

เวลาเดินทางรวม	0 วัน 05 ชม 53 นาที
รวมเวลาเดินเบา	0 วัน 03 ชม 49 นาที
รวมเวลาจอด	0 วัน 02 ชม 44 นาที
ระยะทางรวม	278.5

ภาคผนวก ข.14

สถิติอุบัติเหตุ



Summary EHS Performance

Jan - Jun 2024



*"One family ...
fueling the future
of Thailand"*



Jun 2024 : Safety Statistic

Description	Month	YTD
Employee Man-hours	74,918	458,238
Contractor Man-hours	162,267	855,783
Total Man-hours	237,185	1,314,021
First Aid Cases	0	0
Recordable Injury Cases	0	0
Medical Treatment (MTC)	0	0
Restricted Work (RWC)	0	0
Days Away from Work (DAFW)	0	0
Total Recordable Injury Rate (TRIR)	0	0
Days Away from Work Rate (DAFWR)	0	0
Motor Vehicles Crash (MVC)	0	6
Other Vehicles Crash (OVC)	0	0
Recordable Fire Cases	0	0
Non-Recordable Fire Cases	0	0
Hours since last Recordable Injury Case (30 Nov 2023)		1,529,336
Hours since last Days Away From Work Case (24 Jun 2013)		37,637,656



ภาคผนวก ข.15

ระเบียบปฏิบัติ เรื่อง การนำเรือเข้าเทียบท่า


Movement/Dispatches			
 Plant 66 Mooring Arrangements			
Prepared by:	Sawai Paena	Number:	HC-WI-PD-6018
Approved by:	Opas Waiyasatja	Revision:	5.
Low		Medium	
		High	

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Purpose

The purpose of this procedure is to outline the steps to be taken to achieve, and maintain a safe and efficient mooring arrangement. This will include the ship berthing and sailing activities.

WARNING

The mooring and unmooring of vessels is potentially a hazardous operation. It is also an operation, which demands a high degree of teamwork. To be both efficient and safe, all involved must be properly trained and equipped, and must have a clear understanding of the contribution made by others, as well as their own role and responsibilities.

System Information

Summary Mooring equipment is provided at the Marine Terminal for the safe and efficient mooring of ships alongside the Products Pier and LPG Pier. The Products Pier can accommodate ships up to 104,500 Long Ton Displacement, the LPG Pier can accommodate up to 14,000 Long Ton Displacement respectively.

The general mooring requirements for vessels visiting the Star Petroleum Refining Public Co., Ltd. Marine Terminal are contained in section 6 of the Marine Terminal Regulations.

Roles and Responsibility Any deviation to this procedure shall require use of the Stop Work Authority. User shall inform PD Shift Supervisor and Water Front Coordinator for assistance.

Marine DCS (DCS)

- To coordinate with Marine operator, Loading Master, SC Foreman and Ship's Master to berth/ un-berth at Product/ LPG pier with safely, efficiently and meet the standard operation practice.

Marine Operator (OP)

- To coordinate with Marine DCS, Loading Master, SC Foreman and Ship's Master to berth/ un-berth at Product/ LPG pier with safely, efficiently and meet the standard operation practice.

Loading Master (LM)

- To coordinate with Marine DCS, Marine Operator, SC Foreman and Ship's Master to berth/ un-berth at Product/ LPG pier with safely, efficiently and meet the standard operation practice.
- The Loading Master must ensure that the intended berth is safe and in all respects, suitable for the vessel to be moored there. This should include ensuring that the berth is of suitable size to accommodate the vessel. All hazards and obstructions should be cleared, including: Loading Arm, Ladder or any other equipment. There should be no activity that could present a hazard to the vessel, such as hot work or other maintenance/repair work.
- Loading Master Shall be present to provide oversight to the SC Jetty gang for all berthing and un-berthing operations. Any non-conformances with berthing shall be noted on the Ship-Shore safety checklist.

SC Foreman

- The SC Foreman is responsible for mooring supervisor who is supervised and safety of his crew. This also includes co-operating with the Master & crew of the vessel and those engaged in other adjacent port operations.

The Master of vessel

- The master has the overall responsibility for the safe mooring of his ship, safety of his crew and a duty of care towards shore-side workers.

**Product Pier
Mooring
Equipment****Mooring Bollards**

Bollards are strategically placed along the Piers and each has a design holding capacity of 91 tonnes.

Mooring Capstans

Mooring capstans are strategically placed along the Piers to assist mooring personnel when handling ship's mooring lines. All capstans have a spring loaded, foot pedal switch control and emergency stop button for safe operation.

Mooring Messengers

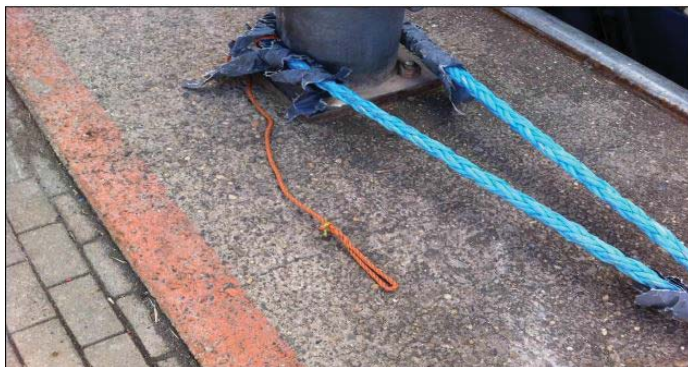
Mooring messengers are provided at each berth to assist the mooring personnel in the securing of the ship's mooring lines to the bollards.

Mooring Ropes and Wires

Ship's mooring lines will be used to secure the ship alongside. All mooring lines must be in good condition.

Rope Tails

Natural fibre rope tails are preferred by the linesmen as they are far easier to grip when pulling the mooring line ashore.



Nylon rope shall not be used at the end of the eye as this is difficult to maintain a secure hand grip of the rope.

CAUTION**NOTE**

No shore mooring lines are provided.

Reference: For Item 1, Ship Berthing Operation**NOTE**

The minimum number of mooring lines to be used for each ship, except at the Tug Berth, is 10, comprising two headlines, two sternlines, two breastlines forward and two aft, and one springline forward and one aft. Additional lines may be used in the event of inclement weather or when the Loading Master decides it is necessary. Due to the smaller size of ships using the Tug berth, the mooring arrangement here will be at the discretion of the Marine Panel Man.

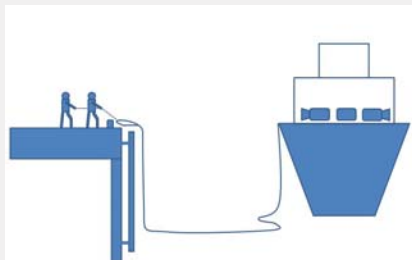
Precautions**WARNING**

A step that, if done incorrectly, could cause a serious safety hazard leading to death, serious personal injury, major equipment damage, fire or a large environmental release.

Reference: For action step 1.5

For example of the rope slack in the water at least 1 meter and upright with the water.

CAUTION

**Reference: Before action step 1.6**

Do not operate mooring winch until all heaving lines and/or messenger ropes have been removed from the main mooring lines, and personnel are standing clear from the line of pull.

WARNING

**Reference: Before action step 1.9**

When two eyes or an eye and a bight are placed on the same bollard, the second eye should be lead up and through (dipped) the eye of the first before being placed over the bollard.

CAUTION



NOTE

A Portable Gangway is available for each berth on the Product Pier and LPG Pier, if required.

Reference: For action step 3.4

CAUTION

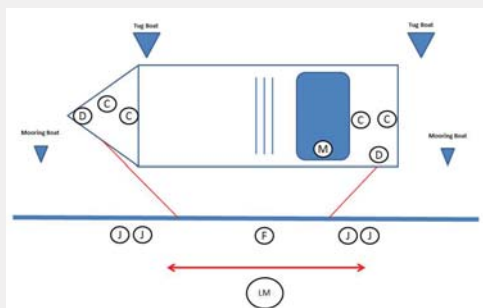
When the Master order to let go the mooring line then SC foreman should ensure each mooring rope enough slack (line in the sea) and mooring winch stop before order jetty gang let go the mooring line one by one.

Prerequisites**Mooring Team Compositions**

1. Loading Master (LM)
2. SCM Foreman (F)
3. SCM Mooring crew (J)

There shall always be sufficient line handlers that will be available for a mooring operation. The team shall be divided into 2 equal groups (Forward and Aft). The SCM foreman designated as the Team Leader. Team Leader shall be responsible for communicating with the line boats and the Pilots as required on agreed working channel. The Loading Master designated as site supervisor to take care mooring operation.

NOTE



The activities described in this procedure are under the control of the Marine DCS (DCS). It is his responsibility to ensure that each step is complied with, and carried out correctly. include: Communication and direction as required with the Marine Operator (OP).

1. **Coordinate** with the Berth Operator or Loading Master to perform " Pre Berth Check " by follow steps in check form "HC-FO-PD-6022"
2. **Notify** SCM. Foreman, mooring team, tug boats and mooring boats on station prior the ship approach to Maptaphud Harbour.
3. **Perform** test communication via VHF with the line boats and the Pilot.
4. **Verify** all personnel involved in the mooring operation are wearing SPRC approved lifejackets/work vests in addition to SPRC standard P.P.E.

Detailed Activities

Who	Step	Action	Check
1. Ship Berthing Operation			
		SHIP:.....BERTH:..... BERTHING DATE/TIME:..... UNBERTHING DATE/TIME:.....	
DCS	1.1	Notify all concerns that ship coming to alongside. <ul style="list-style-type: none"> ◦ Berth operator ◦ Loading master ◦ SCM Foreman 	<input type="checkbox"/>
LM OP	1.2	Contact the Master or Pilot on the ship's bridge and must keep in close communication with the line boats.	<input type="checkbox"/>
LM OP	1.3	Coordinate with the Master to mark up ship's manifold is to be use.	<input type="checkbox"/>
LM OP	1.4	Verify that wire or rope mooring lines are handled one at a time.	<input type="checkbox"/>
LM OP	1.5	Verify the rope slack in the water at least 1 meter and upright with the water. (See precaution)	<input type="checkbox"/>
LM OP	1.6	Verify spring mooring lines. (See precaution) <ul style="list-style-type: none"> ◦ Lead as near to horizontal as possible. ◦ Sufficient length to maintain this attitude under all freeboard conditions. 	<input type="checkbox"/>
LM	1.7	Verify that breast lines lead as near to right angles to the ship's centerline as possible.	<input type="checkbox"/>
LM	1.8	Verify the head and stern lines lead suitable angles to the ship, and no cross lines on the others ship for mooring.	<input type="checkbox"/>
LM	1.9	Coordinate the Master/Pilot for the ship's manifold position relate to the loading arm, interval one meter count communicate with ship for the last 10 meters until ship is in position and shall be made "all fast" for maintain in this position. (See precaution)	<input type="checkbox"/>
OP	1.10	Verify the mooring are secure and correct position for berthing.	<input type="checkbox"/>
OP	1.11	Verify ship/shore gangway is safe for access.	<input type="checkbox"/>
END OF TASK			



Who	Step	Action		Check
2. Mooring Requirements				
2.1 Self Tensioning Winches				
LM	2.1.1	Notify the master that once secure alongside, the use of self-tensioning mooring winches, in the automatic mode, is prohibited.		<input type="checkbox"/>
2.2 Tending Of Moorings				
LM	2.2.1	Monitor the moorings throughout the ship's stay alongside.		<input type="checkbox"/>
LM	2.2.2	Verify the ship's crew tends the moorings at frequent intervals.		<input type="checkbox"/>
LM DCS	2.2.3	WHEN	THEN	<input type="checkbox"/>
		Ship fails to maintain secure mooring.	Notify Marine DCS to suspend all cargo operations until moorings are adequately adjust.	
2.3 Emergency Towing Wires				
LM	2.3.1	Verify that emergency towing wires, adequate size for the ship, are rigged at the off-shore bow and quarter.		<input type="checkbox"/>
LM	2.3.2	Verify frequent intervals, that the towing eyes are maintained 1 meter above water level.		<input type="checkbox"/>
2.4 Product Pier Gangways				
LM	2.4.1	Notify the Master for the ship's responsibility to provide a suitable gangway for safe access between ship and shore.		<input type="checkbox"/>
LM SHP	2.4.2	Verify the Gangway. <ul style="list-style-type: none">Properly rig with side railsProvide safety netStand by lifebuoySufficient lighting at night		<input type="checkbox"/>
2.5 Controlling Depths				
LM SHP	2.5.1	Verify the Master is aware of the individual berth water depths and tidal information.		<input type="checkbox"/>
LM SHP	2.5.2	Notify the Master to ensure sufficient under keel clearance, at all stages of the tide.		<input type="checkbox"/>
END OF TASK				



Who	Step	Action	Check
3. SHIP SAILING OPERATION			
LM SHP	3.1	Perform tool box talk with Master and SC foreman on sequence of unmooring when complete the shipping document.	<input type="checkbox"/>
LM	3.2	Verify the S.C. Management mooring personnel will be on station prior to the agreed sailing time.	<input type="checkbox"/>
LM	3.3	Verify all personnel involved in the sailing operation wear lifejackets/work vests as required for SPRC personal protective equipment.	<input type="checkbox"/>
LM	3.4	Instruct the mooring personnel that no mooring lines are released until: (See precaution) <ul style="list-style-type: none">◦ Ship’s crew provide enough slack (line the water) to remove the eye safely from the bollard◦ Master gives instruction to Foreman, either by signal or verbally, to release the slackened mooring line.	<input type="checkbox"/>
END OF TASK			

Who	Step	Action		Check
4. POST SAILING CHECKS				
OP LM	4.1	Check the berth fenders and terminal fix gangway for any damage.		<input type="checkbox"/>
LM DCS	4.2	IF	THEN	<input type="checkbox"/> <input type="checkbox"/>
		Found any damage of fenders or Fix Gangway	Inform Marine DCS to record in Log book.	
			Notice to ship.	
END OF TASK				



Definitions

- N/A



References

- Port Information and Marine Terminal Regulations Book.
- ISGOTT
- SPRC Training Manual
- Mooring Equipment Guideline



Amendment List

Below is a list of changes between the previous and the current revision of this document.

Step/Section

Reason for Change

(Changed) - Review criticality and risk ranking $2+1+1 = 4$ (For reference use), changed the criticality from Medium to Low

Distribution List

Copy No.	Controller/Holder	Location
00	Electronic Controller	SmartProcedures

ภาคผนวก ข.16

โครงการรับผิดชอบต่อสังคม
ของบริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

4 กรกฎาคม 2567



เป็นครอบครัวที่ปลอดภัย
พร้อมพัฒนา และใช้ประโยชน์และสิ่งแวดล้อม

1

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

การดำเนินงานด้านความรับผิดชอบต่อสังคม บริษัทฯ มุ่งเน้นสนับสนุนการเติบโตขององค์กร สร้างคุณค่าให้แก่สังคมและชุมชน สร้างความเชื่อมั่นและการยอมรับจากชุมชน รวมถึงผู้มีส่วนได้เสียที่เกี่ยวข้องตามนโยบายความรับผิดชอบต่อสังคม โดยใช้แนวทางการมีส่วนร่วมและสื่อสารกับผู้มีส่วนได้เสียทุกระดับผ่านโครงการและกิจกรรมความรับผิดชอบต่อสังคม เพื่อตอบสนองความต้องการของชุมชน โดยครอบคลุม 4 ด้านหลักคือ

กลยุทธ์ 4 ด้านกิจกรรมความรับผิดชอบต่อสังคม



ด้านการศึกษา

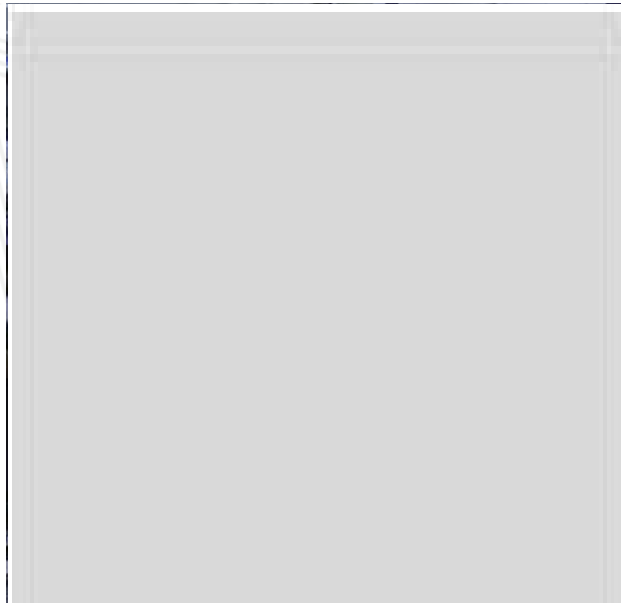
ด้านคุณภาพชีวิต

ด้านสิ่งแวดล้อม

ด้านสร้างความสัมพันธ์

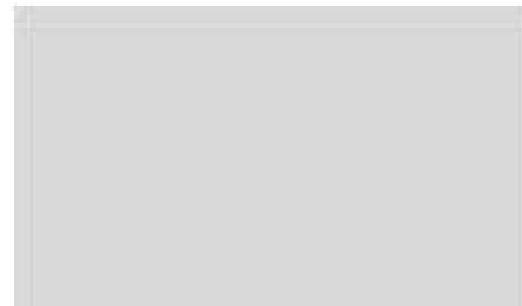
2

ด้านการศึกษา

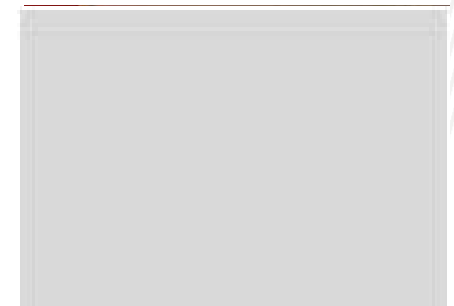


การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านการศึกษา



ร่วมออกบูธในกิจกรรมวันเด็กแห่งชาติ ประจำปี 2567 ณ ศูนย์บริการสาธารณสุข เทศบาลเมืองมาบตาพุด เพื่อมอบของขวัญ ให้กับเด็กๆ ในพื้นที่มาบตาพุด และร่วมสนับสนุนของรางวัลเด็ก ให้กับชุมชน โรงเรียน และหน่วยงานต่าง ๆ รวมมูลค่ากว่า 284,329 บาท



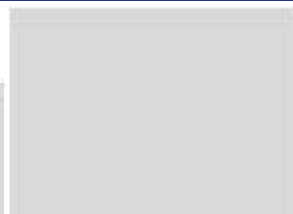
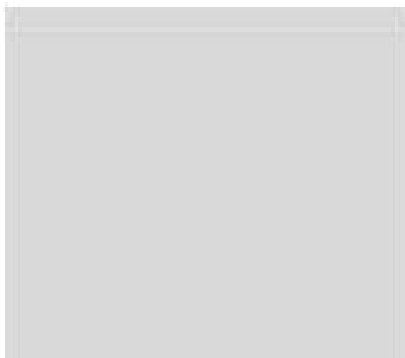
สนับสนุนค่าเดินทางสามเณร โรงเรียนพระปริยัติธรรมอำเภอเวียงชัยวิทยาวัดโสภณ เพื่อการสอบ B-Net ณ จังหวัดฉะเชิงเทรา เป็นจำนวนเงิน 3,000 บาท

4



ด้านการศึกษา

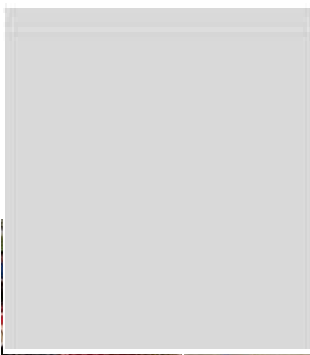
การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม



ร่วมทำบุญพิธีบรรพชาสามเณร ณ วัดมาบตาพุด จำนวน 3,000 บาท



ร่วมสนับสนุนน้ำดื่ม 600 ขวด
เนื่องในงานแข่งขันกีฬาสหวิทยาเขตระยอง 1 เกมส์
ของโรงเรียนวัดป่าประดู่ มูลค่า 2,515 บาท

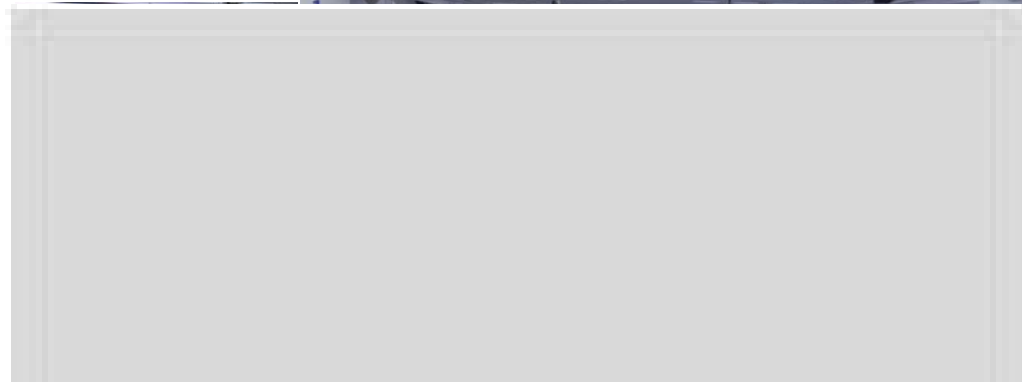


ร่วมทำบุญทอดผ้าป่าปล่อยปลาเพื่อการศึกษา สมทบ
ทุนสร้างอาคารเอนกประสงค์ ณ โรงเรียนวัดโนรี ต.เทพ
อ.เมือง จ.ระยอง เพื่อใช้ในการทำกิจกรรมของโรงเรียน
ในโอกาสต่อไป



ด้านการศึกษา

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

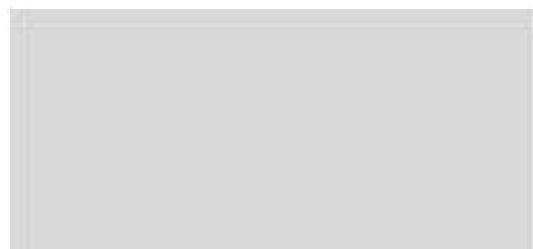


SPRC, AGC Vinythai และ BST ร่วมกับเทศบาลเมืองมาบตาพุด จัดกิจกรรม "Achieve to be shining - เปิดโลกอาชีพที่ใช้ เส้นทางที่ซอบ" ภายใต้โครงการจัดกิจกรรมเพื่อส่งเสริม
และพัฒนาศักยภาพและกระบวนการมีส่วนร่วมของเด็กและเยาวชน ให้แก่นักเรียนจาก 15 โรงเรียนในพื้นที่จังหวัดระยอง จำนวน 200 คน ณ ห้องประชุมโพธิทอง ศูนย์บริการสาธารณสุข
เทศบาลเมืองมาบตาพุด จังหวัดระยอง เพื่อพัฒนาศักยภาพ สร้างแรงบันดาลใจ ในการการศึกษาต่อและเลือกประกอบสายอาชีพในฝัน ของตนเอง ได้ ด้วยงบประมาณ 200,000 บาท

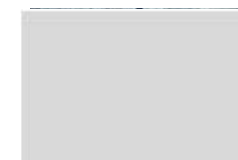


ด้านการศึกษา

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม



สนับสนุนทุนการศึกษาบุตรหลานในชุมชน ทั้ง 38 ชุมชน
ในเขตพื้นที่เทศบาลเมืองมาบตาพุด
รวมทั้งสิ้น 380,000 บาท



สนับสนุนทุนการศึกษาเยาวชน วิทยาลัยชุมชนแหลมประมง
เรือเล็กพื้นบ้าน อ.เมือง และ อ.บ้านฉางสามัคคี
จำนวน 50,000 บาท



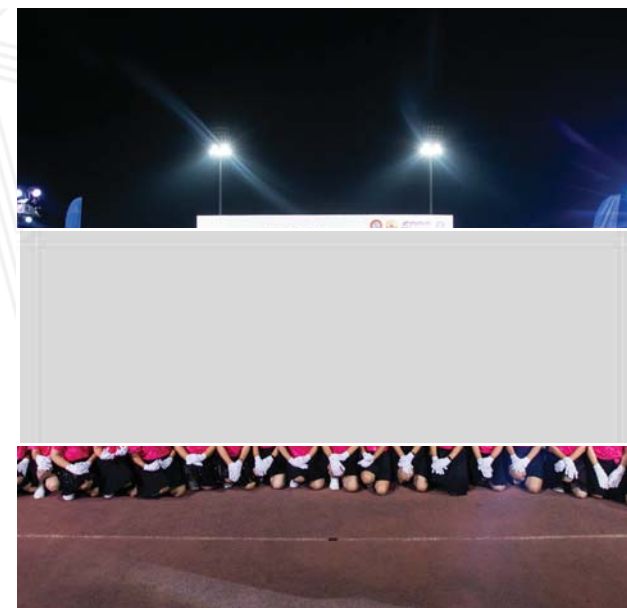
ร่วมทำบุญและสนับสนุนทุนการศึกษาบุตรหลาน
กลุ่มประมงพื้นบ้านตาฉวน
มูลค่า 3,000 บาท



สนับสนุนทุนการศึกษาเยาวชน
วิทยาลัยชุมชนกลุ่มประมงเรือเล็ก
หาดสุราดา
จำนวน 5,000 บาท



ด้านคุณภาพชีวิต

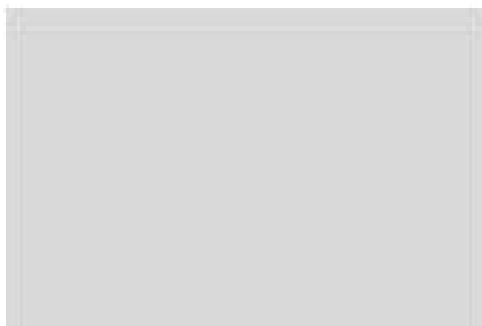


การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

โครงการการออกกำลังกายเพื่อสุขภาพ ต่อเนื่องเป็นปีที่ 9



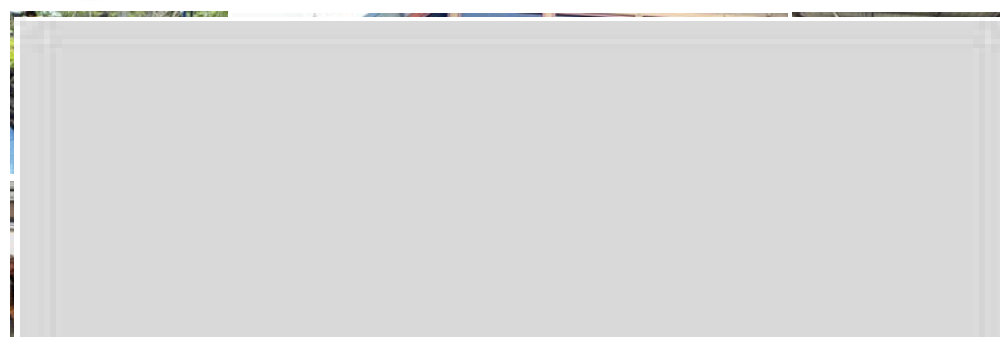
SPRC จัดกิจกรรมแอโรบิคสัญจร ปีที่ 9 ครั้งที่ 1 ณ สวนสาธารณะห้วยโป่ง มีผู้เข้าร่วมกว่า 200 คน โดยภายในงานมีจัดกิจกรรมมอบของสวัสดิปีใหม่ กลุ่มแอโรบิคชุมชนด้วย มูลค่ารวมกว่า 94,000 บาท



SPRC ร่วมกับองค์การบริหารส่วนจังหวัดระยอง และเทศบาลเมืองมาบตาพุด จัดงานแอโรบิคสัญจร ปีที่ 9 ระดับอำเภอเมือง ณ ศาลาอเนกประสงค์วัดมาบตาพุด โดยมีผู้ร่วมงานกว่า 300 คน เพื่อกระตุ้นให้ชุมชนหันมาออกกำลังกายโดยใช้แอโรบิคเป็นสื่อกลาง งบประมาณกว่า 96,000 บาท นอกจากนี้ ภายในงานยังมีการจัดจำหน่ายสินค้าชุมชนเพื่อเป็นการกระตุ้นเศรษฐกิจฐานรากให้กับชุมชนในพื้นที่จังหวัดระยอง โดยสามารถสร้างรายได้ถึง 45,660 บาท

9

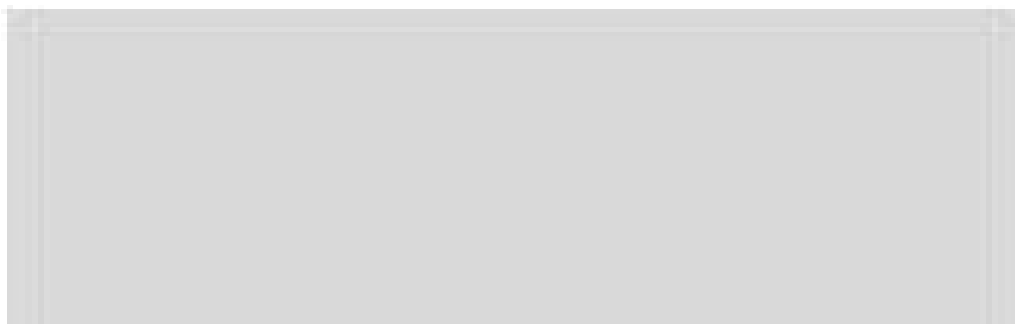
การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม



SPRC จัดโครงการศึกษาดูงานเพื่อพัฒนาศักยภาพวิสาหกิจชุมชน ด้านการทำแปลงเกษตรและการทำศูนย์การเรียนรู้อย่างมีอาชีพ ณ อรุณฟาร์มวิลเลจ จ.ชลบุรี จำนวน 50 คน จาก ชุมชนบ้านลำ ชุมชนห้วยโป่งใน 1 วิสาหกิจชุมชนพัฒนาอาชีพการเกษตร ชุมชนวัดมาบตาพุด, วิสาหกิจชุมชนพัฒนาอาชีพเสริม ชุมชนวัดมาบตาพุด, วิสาหกิจชุมชนวัดซากลูกหญ้า, วิสาหกิจชุมชนเกษตรผสมผสานหนองห้วยโสม และเจ้าหน้าที่เทศบาลเมืองมาบตาพุด ด้วยงบประมาณ 47,212 บาท

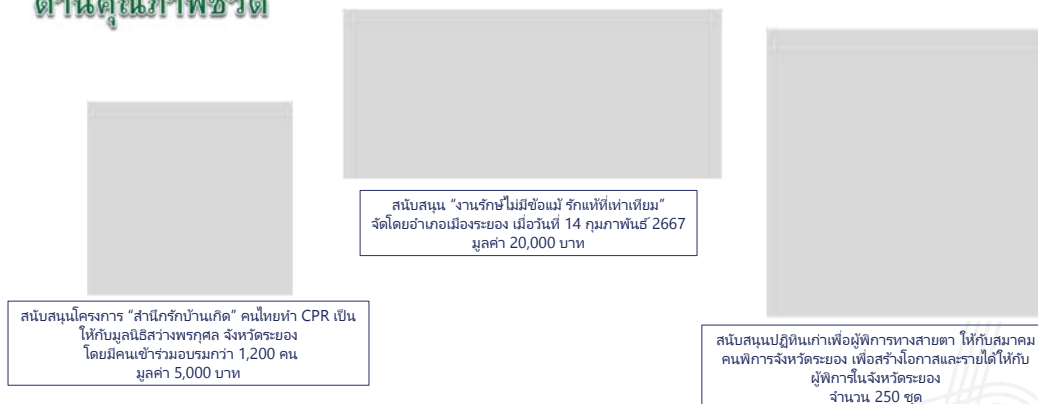
10

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม



สนับสนุนสนามเด็กเล่น ณ ชุมชนอิสลาม เพื่อส่งเสริมพัฒนาการทางอารมย์ จิตใจและสังคมให้กับเด็ก พร้อมทั้งสร้างเสริมประสบการณ์การทำงานร่วมกัน และพัฒนากล้ามเนื้อมัดเล็กผ่านเครื่องเล่นในสนามเด็กเล่น
จำนวน 59,235 บาท

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม



สนับสนุน "งานรักษ์ไม้มีชัยแม้ รักแท้ที่เท่าเทียม"
จัดโดยอำเภอเมืองระยอง เมื่อวันที่ 14 กุมภาพันธ์ 2567
มูลค่า 20,000 บาท

สนับสนุนโครงการ "สำนึกรักบ้านเกิด" คนไทยทำ CPR เป็น
ให้กับมูลนิธิสว่างพุกศุล จังหวัดระยอง
โดยมีคณะเข้าร่วมอบรมกว่า 1,200 คน
มูลค่า 5,000 บาท

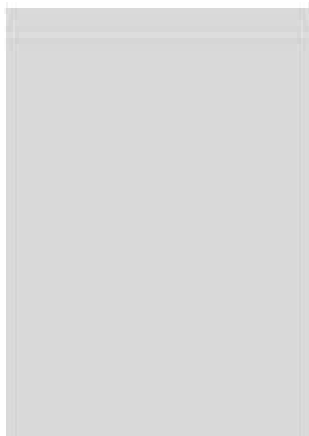
สนับสนุนแป๊ะทึนเก่าเพื่อผู้พิการทางสายตา ให้กับสมาคม
คนพิการจังหวัดระยอง เพื่อสร้างโอกาสและรายได้ให้กับ
ผู้พิการในจังหวัดระยอง
จำนวน 250 ชุด

12

ด้านคุณภาพชีวิต



ร่วมสนับสนุนการจัดงาน และนำทีม 600 ขว
ในงาน "มาบตาพุดเดิน-วิ่ง มินิมาราธอน ครั้งที่ 13"
มูลค่า 12,514 บาท



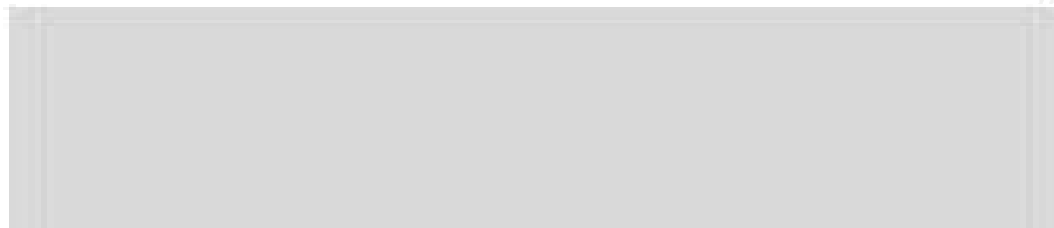
สนับสนุนนำทีมให้แก่ ชมรมบาสเกตบอล "หนุ่มแดนริมหิม"
สำหรับการแข่งขันบาสเกตบอล 3 คน
ในงาน 3x3 Hero on the Beach at Ban Phe Rayong
จำนวน 600 ขว



ร่วมทำบุญประจำปีกับน้องสตาร์ ปี 2567
โดยสนับสนุนข้าวสาร 100 กก ,ผ้าอ้อมผู้ใหญ่ และ
แผ่นรองขับแก่ผู้สูงอายุและผู้ป่วยติดเตียง ในเขต
เทศบาลเมืองมาบตาพุด มูลค่า 50,000 บาท

13

ด้านคุณภาพชีวิต

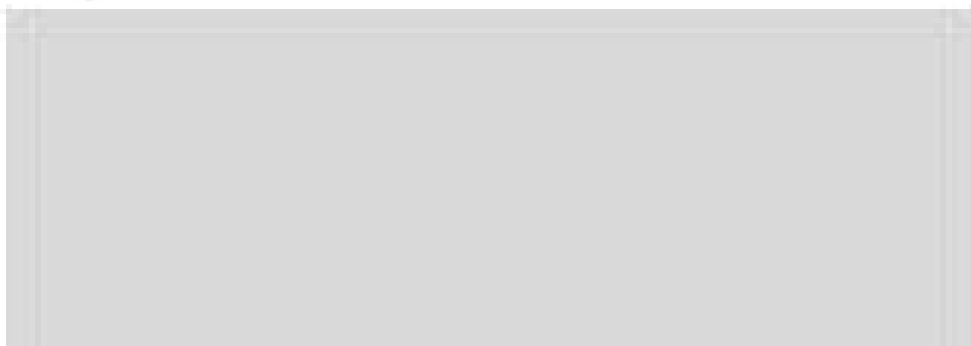


สนับสนุนนำทีม จำนวน 240 ขว
ในกิจกรรมปลูกป่าชายเลน กับกลุ่มประมงเรือเล็หาดสุชาดา
มูลค่า 1,006 บาท

สนับสนุนนำทีม จำนวน 120 ขว และถุงขยะ
ในกิจกรรมทำความสะอาดชายหาดพลา ณ กลุ่มประมงพื้นบ้านหาดพลา บ้านพลา
มูลค่า 1,055 บาท

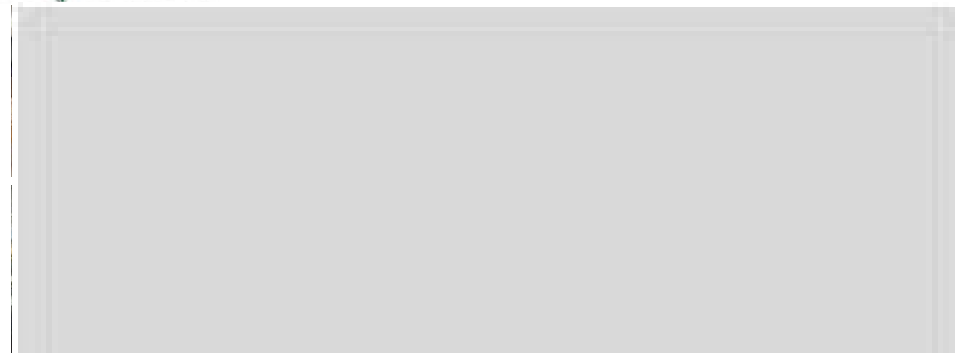
14

ด้านคุณภาพชีวิต



จัดงานแข่งขัน SPRC-CALTEX-YOUNG BADMINTON CHAMPIONSHIP 2024 ณ สนามแบดมินตัน Beyond
ระหว่างวันที่ 6 - 11 พฤษภาคม 2567 ผู้เข้าร่วมงานกว่า 2,000 คน ผู้เข้าแข่งขันกว่า 905 คน โดยใช้งบประมาณทั้งสิ้น 606,678 บาท
การจัดการแข่งขันครั้งนี้ สามารถสร้างรายได้ให้กับร้านค้าในชุมชนกว่า 200,000 บาท

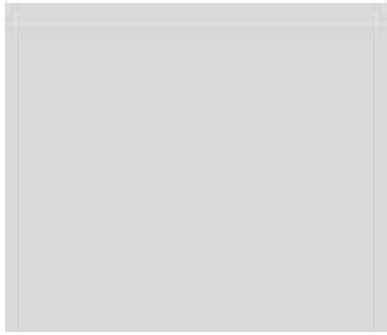
ด้านคุณภาพชีวิต



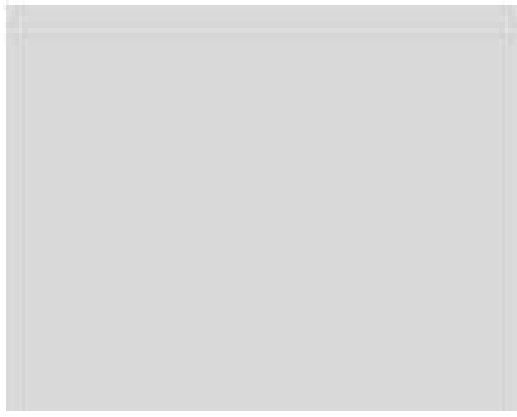
จัดกิจกรรม "SPRC เปิดตลาดนัดชุมชน" (2 เดือน/ครั้ง) มาให้พนักงานและผู้รับเหมาได้อุดหนุนสินค้าชุมชนกัน ณ โรงอาหาร SPRCโดยมีวัตถุประสงค์เพื่อส่งเสริม
เศรษฐกิจฐานรากของชุมชนในจังหวัดระยอง เพิ่มช่องทางการจำหน่ายสินค้าของชุมชน พร้อมกับประชาสัมพันธ์สินค้าให้เป็นที่รู้จักแพร่หลายขึ้น ภายในงานมี การจัด
จำหน่ายสินค้าหลากหลายทั้งอาหาร ขนม เครื่องดื่ม เสื้อผ้า กระเป๋า ฯลฯ จากร้านค้ากลุ่มวิสาหกิจชุมชนต่าง ๆ ของจังหวัดระยองมากกว่า 10 ร้าน
โดยสามารถสร้างรายได้รวมกันมากกว่า 218,000 บาท

16

ด้านคุณภาพชีวิต



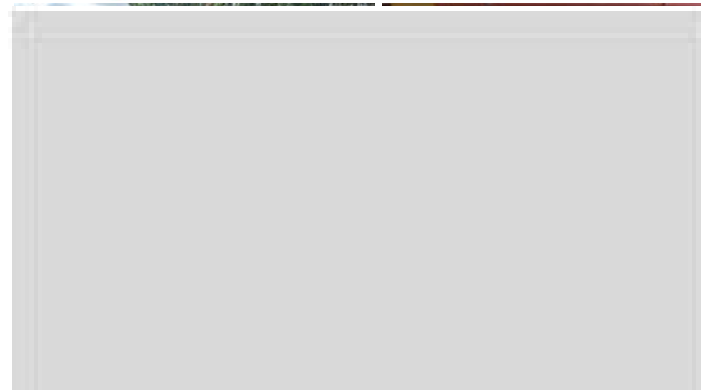
สนับสนุนแว่นครอบตา หน้ากากป้องกันสารเคมี พร้อมใส่กรอง ให้กับ
หน่วยงานป้องกันและบรรเทาสาธารณภัย เทศบาลเมืองมาบตาพุด
เพื่อความปลอดภัยของเจ้าหน้าที่ในการปฏิบัติงาน ณ สถานที่เกิด
เหตุเพลิงไหม้โรงงานหนองพะวา อ.บ้านค่าย จ.ระยอง



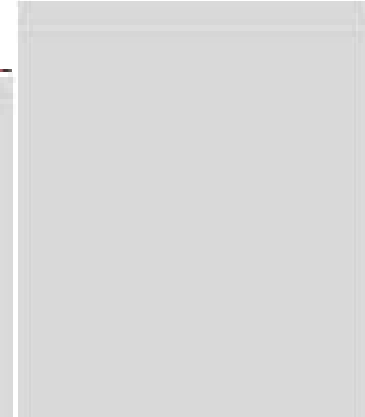
ร่วมกิจกรรม Rayong Let's go 2024 ณ ลานปูน ตลาดร้อยเสา ต.บ้านเพ เพื่อการส่งเสริม
การออกกำลังกาย ผ่านกิจกรรม เดิน วิ่ง และผสมผสานการเต้นแอโรบิก บาสโลป เพื่อ
ความสนุกสนานในการออกกำลังกาย ให้แก่ประชาชนในพื้นที่ตำบลบ้านเพ

17

ด้านคุณภาพชีวิต

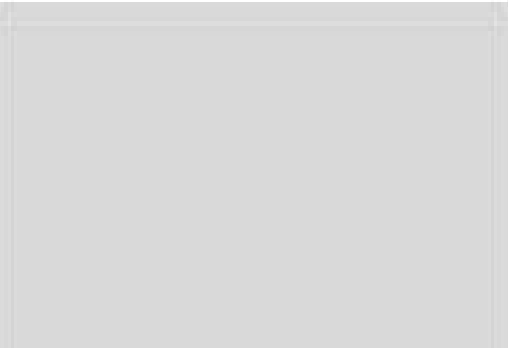


ร่วมกิจกรรม Big Cleaning Day ร่วมกับเทศบาลเมืองมาบตาพุด ในโครงการวัดประชาธิรัฐ สร้างสุข ด้วยวิถี 5ส.
สู่ "โลกแห่งสัปปายะ" ณ วัดมาบตาพุด เพื่อเสริมสร้างสุขภาวะ ทั้งทางด้านกายภาพ จิตใจ สังคม และปัญญาสืบต่อไป

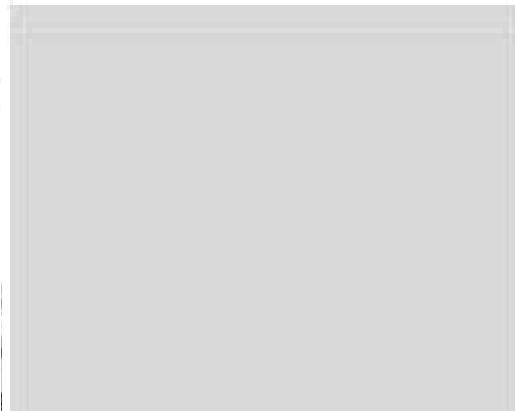


มอบอุปกรณ์ในการพัฒนาชุมชน รวม 16 ชุมชน สำหรับ
กิจกรรมพัฒนาชุมชนในเขตเทศบาลเมืองมาบตาพุด เนื่อง
ในโอกาสวันเฉลิมพระชนมพรรษา สมเด็จพระนางเจ้าฯพระ
บรมราชินี 3 มิถุนายน

ด้านคุณภาพชีวิต



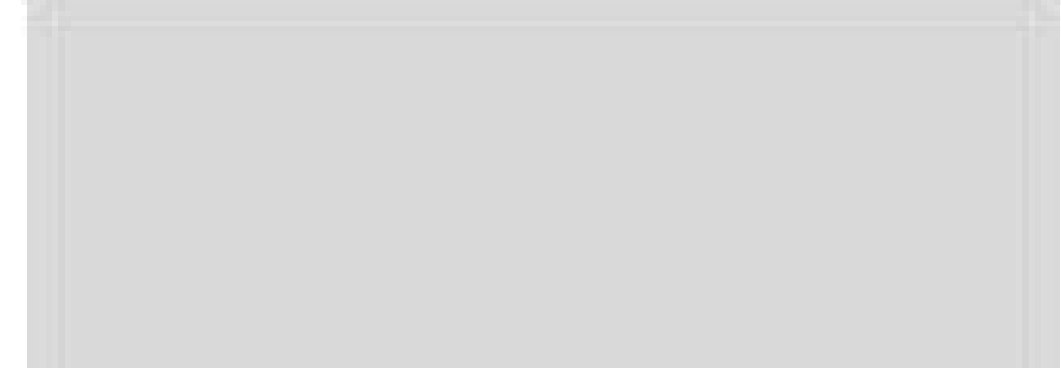
ร่วมสนับสนุนกิจกรรม "ตลาดรักถิ่น ชุมชนเพริศ" ของสภาวัฒนธรรมตำบลเพ เพื่อ
ส่งเสริมรายได้และกระตุ้นเศรษฐกิจชุมชน ณ ลานบริเวณหน้าศูนย์อนุรักษ์ผ้าพื้นถิ่น
ระยอง จ.ระยอง



ร่วมสนับสนุนงาน "เทศกาลอาหารอร่อย ระยอง...อี ครั้งที่ 10" โดย สำนักงาน
พาณิชย์จังหวัดระยอง เพื่อเพิ่มรายได้และกระตุ้นเศรษฐกิจของจังหวัด ระหว่าง
วันที่ 27-30 มิถุนายน ณ สนามกีฬาากลางจังหวัดระยอง

19

ด้านคุณภาพชีวิต



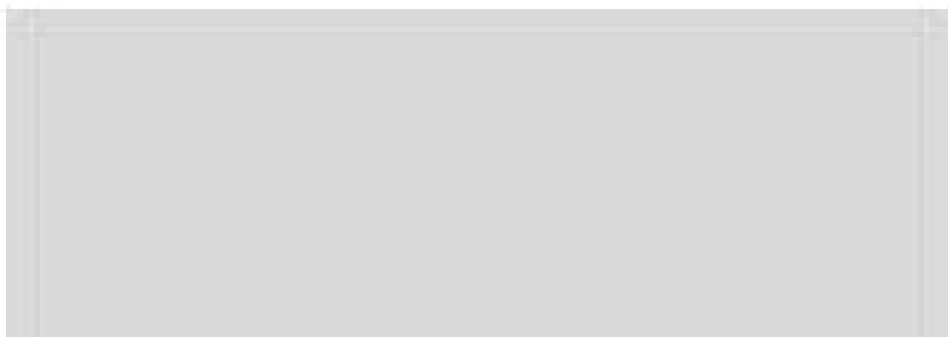
สนับสนุนงบประมาณการจัดกิจกรรมแข่งขันตกปลาทะเลระยอง ภายใต้ชื่อ "มีจลาหาคู ครั้งที่ 2"
ณ หาดแหลมรุ่งเรือง
มีจำนวนเรือเข้าร่วมแข่งขันกว่า 131 ลำ ผู้ร่วมงานกว่า 500 คน
มูลค่ากว่า 505,029 บาท

สนับสนุนงาน Thai Fight ปลากแดง ณ ลานซีเคฟลาซ่า อ.ปลวกแดง
จ.ระยอง ในวันที่ 24 มีนาคม 2567
จำนวน 70,000 บาท

20

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

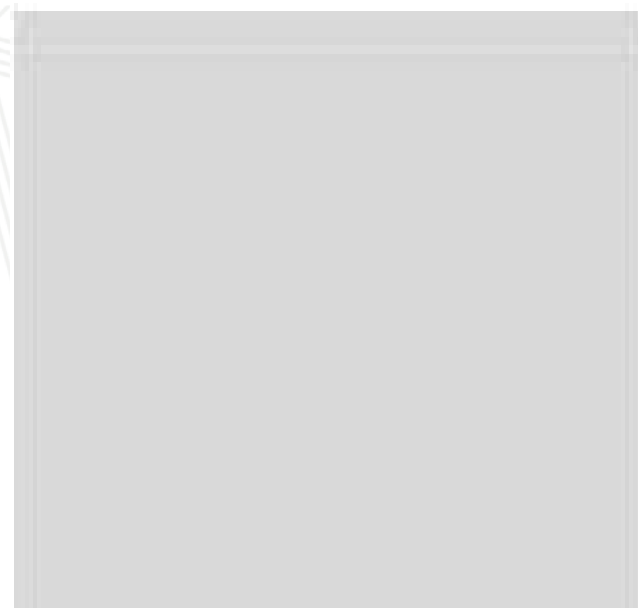
ด้านคุณภาพชีวิต



สนับสนุนงานเทศกาลผลไม้ และของดี จังหวัดระยอง ประจำปี 2567 ณ สนามกีฬาากลางจังหวัดระยอง เพื่อกระตุ้นเศรษฐกิจและสนับสนุนการท่องเที่ยวจังหวัดระยอง
มูลค่า 50,000 บาท

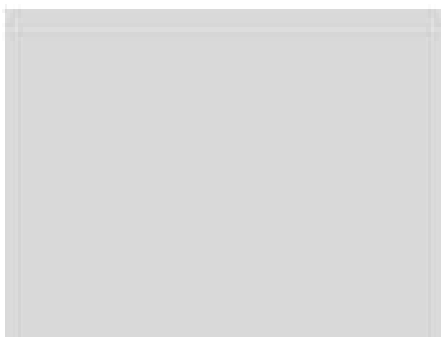
21

ด้านสิ่งแวดล้อม



การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

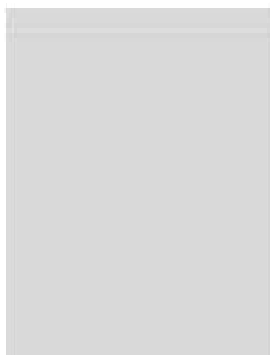
ด้านสิ่งแวดล้อม



ร่วมสนับสนุนการจัดตั้งธนาคารขยะ ของชมรมรักษะเลหาดแม่รำพึง
เขตบ้านแพ



สนับสนุนของรางวัล จำนวน 90 ชิ้น ใน
งานรณรงค์การลดการปล่อยก๊าซเรือน
กระจก เพื่อจัดกิจกรรมการให้ความรู้และ
รณรงค์เรื่องการเปลี่ยนแปลงสภาพ
อากาศ และภาวะโลกร้อน ของหน่วยงาน
กองทรัพยากรธรรมชาติและสิ่งแวดล้อม
มูลค่า 5,104 บาท

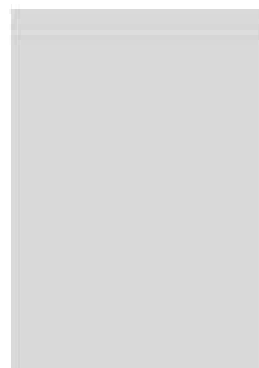


สนับสนุนน้ำดื่ม จำนวน 240 ขวด
ในกิจกรรมปลูกป่าชายเลน กับกลุ่มประมง
เรือเล็หาดสุชาดา
มูลค่า 1,006 บาท

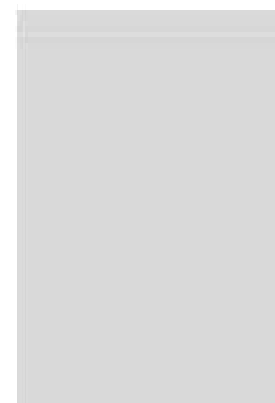
23

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

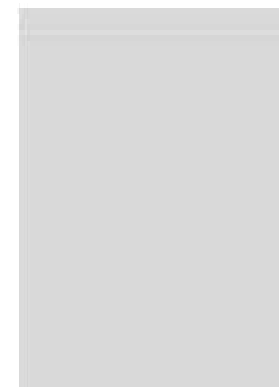
ด้านสิ่งแวดล้อม



สนับสนุนการจัดกิจกรรมพายเรือเก็บขยะ
ณ พระเจดีย์กลางน้ำ
มูลค่า 5,056 บาท



สนับสนุนน้ำดื่ม จำนวน 120 ขวด และถุงขยะ
ในกิจกรรมทำความสะอาดชายหาด
ณ กลุ่มประมงพื้นบ้านหาดพลา บ้านพลา
มูลค่า 1,055 บาท



สนับสนุนน้ำดื่ม จำนวน 120 ขวด และถุงขยะ
ในกิจกรรมทำความสะอาด ณ บริเวณชาย
ด้านหลัง ร้านค้าสินค้าทะเล ชายหาดพลา
กลุ่มอนุรักษ์ประมงสามัคคีบ้านพลา
มูลค่า 1,000 บาท

24

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านสิ่งแวดล้อม

สนับสนุนน้ำดื่ม 360 ขวด
ในงานปฏิบัติการเก็บกู้ยานที่ปกคลุม " เรือหลวงเกรตา"
ดำเนินการโดย
สำนักงานทรัพยากรทางทะเลและชายฝั่งที่ 1 (ระยอง)
มูลค่า 1,508 บาท

ร่วมกิจกรรมปล่อยพันธุ์สัตว์น้ำ
สำนักงานทรัพยากรทางทะเลและชายฝั่งที่ 1 (ระยอง)
ณ ป้ายชายเลนพระเจดีย์กลางน้ำ ระยอง
เพื่อเฉลิมพระเกียรติพระบาทสมเด็จพระเจ้าอยู่หัว
เนื่องในโอกาสมหามงคลเฉลิมพระชนมพรรษา 6 รอบ
เพิ่มปริมาณสัตว์น้ำให้มีความอุดมสมบูรณ์ของระบบนิเวศ

สนับสนุนโครงการปล่อยพันธุ์สัตว์น้ำ
จังหวัดระยอง ปีที่ 22
ณ กลุ่มประมงเรือเล็กพลา-อุตะภา
สามัคคี
รวมกว่า 3 ล้านตัว

25

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านสิ่งแวดล้อม

ร่วมสนับสนุนอุปกรณ์ทำความสะอาดให้กับจิตอาสา ที่มาเข้าร่วมกิจกรรมปล่อยเรือเก็บขยะแม่น้ำระยอง ณ ป้ายชายเลน พระเจดีย์กลาง
น้ำ จ.ระยอง เก็บขยะไปได้กว่า 300 กิโลกรัม
จำนวน 3,869 บาท

26

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านสิ่งแวดล้อม

ร่วมสนับสนุนปล่อยพันธุ์สัตว์น้ำ เฉลิมพระเกียรติสมเด็จพระนางเจ้าฯ พระบรมราชินี เนื่องในโอกาสวันเฉลิมพระชนมพรรษา 3 มิถุนายน รวมกว่า 300,000 ตัว
ณ บริเวณหาดแหลมแม่พิมพ์

จิตอาสา SPRC ร่วมปลูกกระแสมะนาวที่อุทยานหวนชม
เก็บขยะแม่น้ำระยอง และปล่อยพันธุ์สัตว์น้ำ
เนื่องในวันทะเลโลก 2567
ณ ป้ายชายเลนพระเจดีย์กลางน้ำ จ.ระยอง

27

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านสิ่งแวดล้อม

ร่วมกิจกรรมปลูกต้นไม้ และร่วมพัฒนาพื้นที่ 2 ผังคลองน้ำหวนเฉลิม
พระเกียรติ พระบาทสมเด็จพระเจ้าอยู่หัว เนื่องในโอกาสมหามงคล
เฉลิมพระชนมพรรษา 6 รอบ 28 กรกฎาคม 2567

ร่วมบริจาคสิ่งของเหลือใช้กว่า 600 กิโลกรัม ในงานทอดผ้าป่าสามัคคี
ด้วยวีรบุรุษไซเคิล เพื่อการศึกษา และเนื่องในวันสิ่งแวดล้อมโลก
ณ วิทยาลัยเทคนิคนิคมอุตสาหกรรมระยอง

28

ร่วมกิจกรรมเก็บขยะชายหาด และปลูกต้นไม้ 72 ต้น ในโครงการ “รวมใจกักตุนรักษาทรัพยากรทางทะเลและชายฝั่ง เฉลิมพระเกียรติฯ และโครงการพลิกฟื้นผืนป่าเฉลิมพระเกียรติ 72 ล้านต้น” ณ ชายหาดแหลมเจริญ

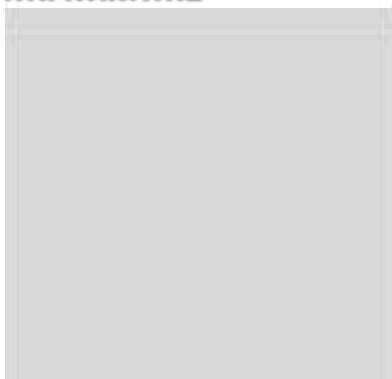
ด้านसानสัมพันธ์

สนับสนุนงานบุญเดือนสาม (บุญข้าวจ้าวหลาม) ประจำปี 2567 จำนวน 34 ชุมชน 5 กลุ่มประมง จำนวน 117,000 บาท

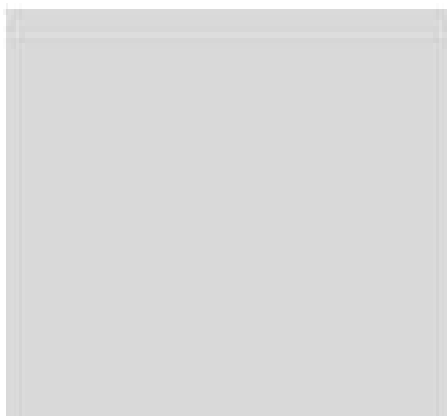
สนับสนุนวัฒนธรรมประเพณีสงกรานต์ตี่ง 38 ชุมชน และมอบกระเป๋าผ้า ชุมชนละ 50 ใบ ให้กับผู้สูงอายุทั้ง 38 ชุมชนในเขตพื้นที่เทศบาลเมืองมาบตาพุด และ 9 กลุ่มประมง รวมงบประมาณ 132,000 บาท

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านสานสัมพันธ์



ร่วมทำบุญทอดผ้าป่าสามัคคี เพื่อสมทบทุนบูรณะอุโบสถ พร้อมร่วมพิธีพุทธาภิเษกพระพิฆเนศวร ณ วัดหนองแฟบ

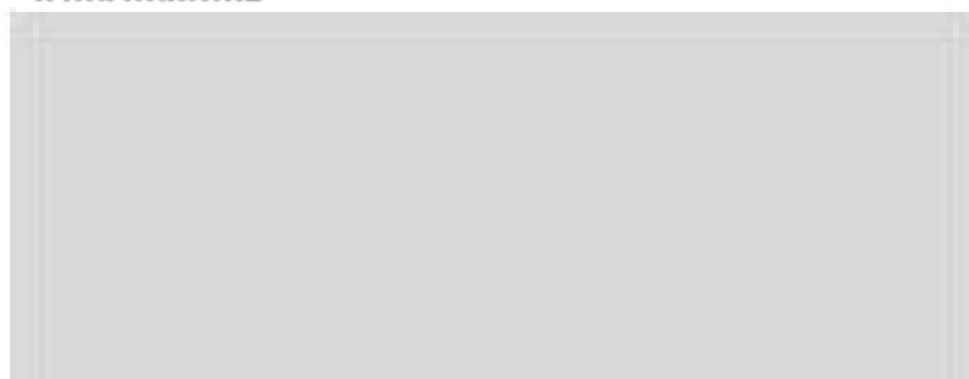


ร่วมสนับสนุนการจัดงาน วันสุนทรภู่โลก จ.ระยอง ครั้งที่ 53 ระหว่างวันที่ 26-28 มิถุนายน 2567 ณ อนุสาวรีย์สุนทรภู่ อ.แกลง

33

การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

ด้านสานสัมพันธ์



มอบของสวัสดิศึบใหม่ชุมชนและกลุ่มประมง และร่วมสนับสนุนงานบุญประเพณี งานมงคล และอวมงคลต่าง ๆ

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การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

โครงการรณรงค์ การย้ายทะเบียนบ้าน

- พนักงานมีทะเบียนบ้านอยู่ในจังหวัดระยอง จำนวน 354 คน จากพนักงานทั้งหมด 535 คน คิดเป็น 66%

บริษัทฯ มีนโยบาย ถ้าพนักงานซื้อบ้านที่จังหวัดระยอง จะช่วยค่าดอกเบี้ยบ้านครึ่งหนึ่ง ซึ่งทางผู้บริหารของบริษัทฯ ได้เน้นย้ำและไม่ให้มีการเปลี่ยนแปลงนโยบายนี้ ถึงแม้ว่าจะมีการร้องขอให้ขยายขอบเขตไปที่กรุงเทพมหานครหรือจังหวัดอื่น



35

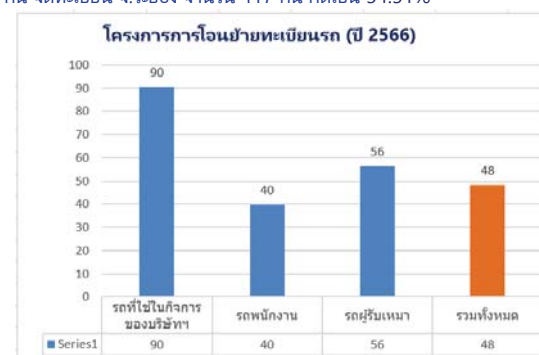
การสนับสนุนส่งเสริมชุมชนและการมีส่วนร่วมกับภาคสังคม

8.4 โครงการย้ายทะเบียนบ้าน การโอนย้ายทะเบียนรถ

โครงการรณรงค์ การโอนย้ายทะเบียนรถ

- รถที่ใช้ในกิจการของบริษัทฯ จำนวนทั้งหมด 42 คัน จดทะเบียน จ.ระยอง จำนวน 38 คัน คิดเป็น 90.48%
- รถพนักงาน จำนวนทั้งหมด 939 คัน จดทะเบียน จ.ระยอง จำนวน 362 คัน คิดเป็น 38.55%
- รถผู้รับเหมา จำนวนทั้งหมด 765 คัน จดทะเบียน จ.ระยอง จำนวน 417 คัน คิดเป็น 54.51%

รวมคิดเป็น 46.79%



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ความสำเร็จและรางวัลแห่งความภาคภูมิใจ



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ความสำเร็จและรางวัลแห่งความภาคภูมิใจ



รางวัล "2023 AMCHAM Corporate Social Impact"
ต่อเนื่องเป็นปีที่ 3 (รางวัลระดับเงิน)
จาก หอการค้าอเมริกันในประเทศไทย



ได้รับการรับรองเครดิตการดำเนินงานด้านสิ่งแวดล้อม
สังคม และธรรมาภิบาล (Environmental, Social and
Governance: ESG) หรือ ESG Credit จากโครงการติดตั้ง
ระบบตรวจวัดคุณภาพอากาศแนวรั้วในรอบปี พ.ศ. 2566



รางวัลอุตสาหกรรมสีเขียว ระดับที่ 3: ระบบสีเขียว
อันเป็นผลจากการที่บริษัทฯ มีการบริหารจัดการ
สิ่งแวดล้อมอย่างเป็นระบบ มีการติดตามประเมินผล และ
ทบทวนเพื่อการพัฒนาอย่างต่อเนื่อง (ปี 2566-2568)
โดยกระทรวงอุตสาหกรรม

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ความสำเร็จและรางวัลแห่งความภาคภูมิใจ



รางวัล CG Award ระดับดีเยี่ยม ประจำปี 2566
ต่อเนื่องเป็นปีที่ 5
โดย สถาบันกรรมการบริษัทไทย (IOD) ร่วมกับตลาด
หลักทรัพย์แห่งประเทศไทย (ตลท.)

ISO 9001:2015 มาตรฐานระบบการบริหารด้านคุณภาพ
ISO 14001:2015 มาตรฐานระบบการบริหารสิ่งแวดล้อม
ISO/IEC 17025:2005 มาตรฐานความสามารถห้องปฏิบัติการ
ในการวิเคราะห์ และสอบเทียบ
ISO 45001:2018 มาตรฐานระบบการบริหารด้านอาชีวอนามัย
และความปลอดภัย



ได้รับการรับรองการเป็นสมาชิกแนวร่วมปฏิบัติของ
ภาคเอกชนไทย ในการต่อต้านการทุจริต ปี 2566
(The Thailand's Private Sector Collective
Action Coalition Against Corruption หรือ CAC)



SPRC ยังคงได้รับการจัดให้อยู่ในกลุ่มดัชนี MSCI Global
Small Cap Indexes ปี 2566

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Drive Together ... Grow Together



40

ภาคผนวก ข.17

ระเบียบปฏิบัติ เรื่อง การสื่อสารและการร้องเรียน
ด้านสิ่งแวดล้อม อาชีวอนามัย และความปลอดภัย


Common			
 EHS Communications & Complaints			
Prepared by:	Nipa Nimmansethakul	Number:	EHS-SP-QS-0003
Approved by:	Angkana Panyaopart	Revision:	1.
Low	Medium	High	

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Purpose

The purpose of this procedure is to provide guidelines to ensure proper internal communications between the various levels and functions of the organization, and to handle external communications; in terms of receiving, documenting and responding regarding Environment, Health and Safety including environmental complaints.

System Information

Summary	The Environmental Complaints or Community Disturbance includes:
	<ul style="list-style-type: none"> • Smell • Noise & vibration • Smoke • Particulates matters • Unauthorized discharge of wastewater, solid waste to the public • Others that has environmental impact to stakeholders e.g., products / by products spilled outside plant, Falling of material during transportation e.g., soil and make public road dirty and nuisance to public, etc.
Roles and Responsibility	Deviation from the procedure must be stopped and informed a line supervisor or line manager, concerned people for a solution prior to executing this procedure.
Precautions	N/A
Prerequisites	N/A

Detailed Activities

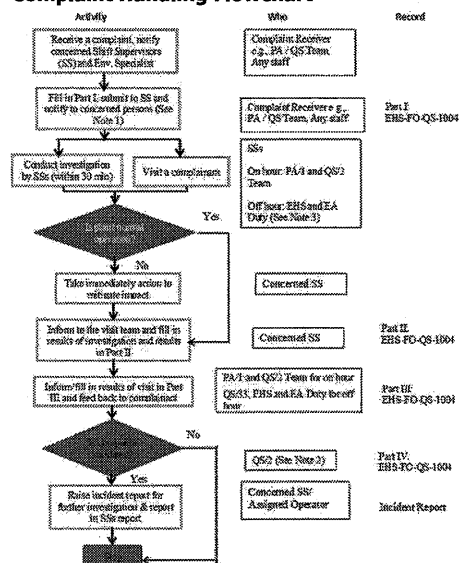
1. External Communications

1.1 Dealing with External Complaints

There are 2 levels of External Complaint or Community Disturbance as follows:

- Recordable Community Disturbance is a complaint that
 - Cause health impact to any neighbor or
 - Widely nuisance to communities (> 1 household/ company or 1 sensitive group (i.e., school, hospital, temple)
 - Unauthorized discharge of wastewater, solid waste to the public
 - Falling of material during transportation (e.g., sulfur, soil) and make public road dirty and nuisance to public
- Non Recordable Community Disturbance is a complaint other than Recordable Community Disturbance.

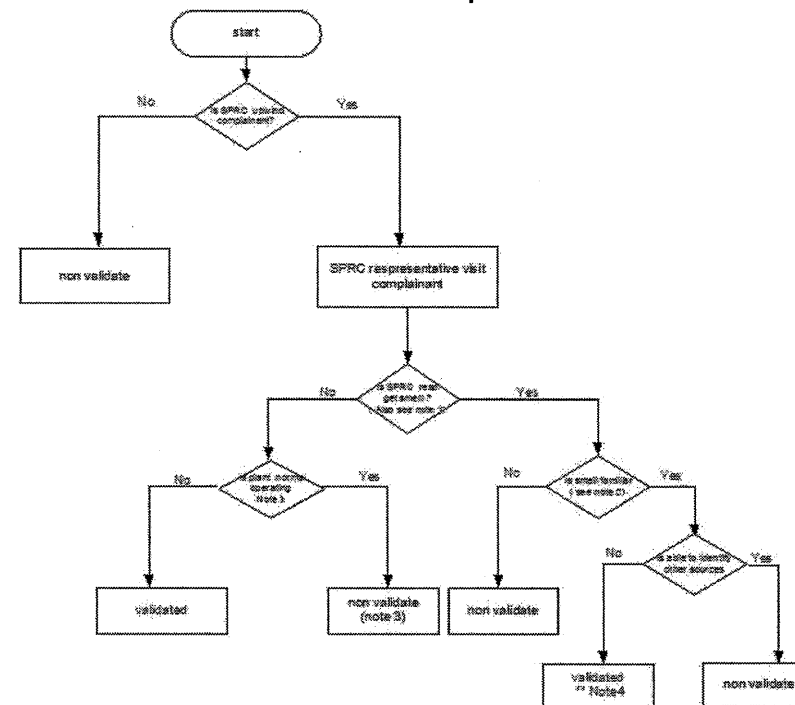
Complaint Handling Flowchart



Note:

- The concerned persons included CE, DO, PN, PD, PA, QS, PN/7 PD/7, Operation Coordinators, EHS duty, and External Affairs duty.
- QS/2 uses the Guideline for Determination of Validated Complaints. If the guideline cannot be applied, Evaluation Team should be set. Evaluation Team comprised of PUs representative, QS representative, PA representative and complainant.
- Security Team/Ops will be the 1st visit the complainant during waiting for Duty Team arrival.

Guideline for Determination of Validated Complaints



Note:

- If the guideline cannot be applied (such as representative does not visit within 1 hour or late report of the smell), Evaluation Team should be set to determine that:
 - Validate / Not Validate
 - Investigate root cause why guideline cannot be followed and improve process.
- Familiar and used to be our sources of smell include burning matches, burning gas, sour hydrocarbon, hydrogen sulfide, sulfur, hydrocarbon and LPG (like mercaptan).
- Normal operation covers:
 - No shutdown or maintenance activity which cause potential smell impact.
 - Shutdown or maintenance activity which has proper smell control.
 - Environmental Control System (for examples: vapor collection and scrubber, ETP Ground Flare, Vapor Recovery Unit, etc.) work properly and efficiently.
- Exemption for the burning match smell due to high level of sources.

Validated Complaints, KPI and Team Reward

All complaints shall be documented, investigated and determined whether they are validated.

If validated complaints occur from the same source during a particular period of time (e.g., plant upset, shut down or smell control system failure), only the initial validated complaint is taken into account in the KPI and Team Reward. However, the repeat complaints, which result from not taking the corrective actions as agreed, will be added in the KPI and Team Reward,

Example: API Separator out of service

Case 1: There are 3 complaints and determined validated complaints. In the record, there will be 3 validated complaints. However, only 1 validated complaint (initial complaint) will be taking into account in KPI and Team Reward.

Case 2: Assume QS recommended a mitigation measure which accepted by PUs Manager due to API's not in service but no action was taken resulting in a repeat complaint. This would result in an additional complaint against KPI and Team Reward.

1.2 Handling of Incoming Communications from Outside

Proper communications guidelines with external contacts which include Regulatory Authorities, Community Leaders and other Environmental Groups are established to ensure sound cooperation/coordination in environment related affairs.

Receiving External Communications

Incoming letters from outside especially regulatory authorities normally addresses to the company Chief Executive Officer (CEO). If the letters express environmental requirements, interests or concern, the Chief Executive Officer (CEO) office will forward the letter to QS for handling.

If incoming EHS communications is via phone call, the company telephone operator will route the line to QS for receiving the requirements.

Documenting and Responding to External Communications

Upon receiving an environmental letter, QS by the EHS Specialist is responsible for preparing correspondence for Manager QS's review and sign.

Incoming letter is registered in the Intranet Web\Incoming Document Registration System while a copy of responding letter is kept in Intranet Web\Outgoing Document Registration System.

In case of communication by phone, EHS Specialist can answer/talk to the callers about his or her area of knowledge. If he or she is not technically qualified to answer the question, the callers will be advised for a call back as soon as practicable.

1.3 Outgoing Communications to the Public

For external communications, refer to the AM-SP-PA-003 Corporate Communication.doc which provide guidelines for developing and implementing activities and various channels to communicate with concerned external stakeholders i.e. Map Ta Phut community people, local government authorities concerned, neighboring plants in Map Ta Phut Industrial Complex, Rayong people and general public.

The external communications arranged with objectives to enhance the company image and reputation amongst the stakeholders in the long term, including prevent misunderstanding on the refineries' operations.

In case of abnormal incident required clarification letter, the letter will be jointly drafted by PA and QS, reviewed by Duty Manager, LT of concerned area, QS and PA and then signed by Duty Manager.

1.4 Informing External Contacts

1.4. Emergency Response Drill / Exercise

1 When SPRC has plan to conduct emergency response drill/exercise including emergency alerting system in the Refinery which may cause concern to the neighbors, or plan for operations that may cause external impact (e.g., start up of the process unit), the company by Public Affairs with coordination with QS shall inform the following external contacts and neighbors in advance:

- Industrial Estate Map Ta Phut Office
- Map Ta Phut Municipality
- Map Ta Phut Police Station
- Huay Pong Police Station
- Nearby Schools and Temple
- Nearby Industrial Plants
- Rayong Provincial Industrial Work Office
- Communities

PA is responsible for notification to concern communities, local authorities and industries. For details, refer to the AM-WI-PA-006 Notification on Refinery's Operation Emergency Response Exercise.doc

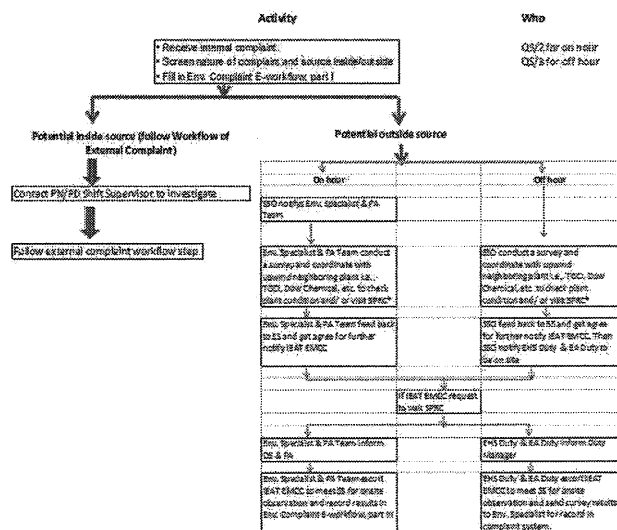
1.4. Reporting Requirements

2 EHS related reports are required to submit as detailed in the permit / license / report document in EHS-OT-QS-0006_Reporting_Requirements.xls. Document Reminder System is a tool for reminding government document due date controlled by LS Department.

For other EHS related incidents reporting, refer to RMS-SP-SPRC-007 Incident Investigation and Analysis.docx.

2. Internal Communications

2.1 Internal Environmental Complaint Guideline



Note * SS can allow neighboring plant to visit SPRC if needed. For Operation complaint, SS communicates action taken to Operators.

2.2 Shift Supervisor Report

Shift Supervisor report is prepared by Shift Supervisor and communicated in the Shift Supervisor Report via e: mail to Top Management, Manager PUs, Manager QEHS&LAB, Environmental Specialist, Public Affairs Personnel twice a day (i.e., for Day and Night Shifts). Information in this report includes the followings:

- EHS incidents including complaints incident
- PUN and PUD Operations Status

The Shift Supervisor is responsible for reporting information on nuisance from outside sources. If the smell is sufficiently strong that it could affect health i.e., irritate nose, produce nausea or dizziness, the Shift Supervisor or affected person shall notify the QS and Public Affairs or External affair duty person if outside office hours immediately.

2.3 EHS Related Meetings

There are 3 main meetings in which EHS issues are routinely informed, reported and discussed i.e., Operations Meeting, Management (Leadership Team) Meeting and EHS Supporting Meetings.

- Operations Meeting** The purpose of this meeting is to ensure sound communications and coordination between Operations and other related departments. The meeting is routinely conducted in the morning. Planned EHS and other field activities are normally informed in the meeting.
- Management (Leadership Team) Meeting** The weekly meeting is normally conducted on Wednesday. The Chief Executive Officer (CEO) chairs the meeting with senior department managers. In the meeting each manager report his or her department related issues. This meeting is a tool for communicating environment, health and safety related issues to top management and senior managers. The Chief Executive Officer (CEO) usually emphasizes the importance of environmental affairs on company business and requests full support / cooperation from each department. The minutes of management meeting is communicated to all staff for information after each meeting.
- EHS Supporting Committees Meeting** There are 4 EHS Supporting Committees (i.e., EHS Main Committee, PN EHS Committee, PD EHS Committee and Maintenance & Contractor EHS Committee) The meetings of the EHS Supporting Committees are conducted on a monthly basis. (For more detail, refer to EHS-SP-QS-0008 EHS Supporting Committee.doc) For other EHS related meetings refer to EHS-WI-QS-0002 EHS Meetings.doc

2.4 Planning for Operations that May Cause External Impact

Reference with the IEAT Notification 67/2014, type of shutdown and notification timeline is specified as below table:

Item	Type of shutdown	Notification Timeline	SPRC Actions
1	Turnaround/Annual Shutdown	≥15 days in advance	<ul style="list-style-type: none"> Required Operation to notify 17 days in advance (PA prepare document 2 days). If changes, required to re-notify
2	Commercial Shutdown	≥7 days in advance	Not Applicable
3	Emergency Shutdown	<ul style="list-style-type: none"> Within 15 minutes after incident by phone Notify plan within 3 days 	Required Operation to immediately notify REB, then REB further notify Environmental Specialist and PA/1

When planning to perform any job (for example unit start up or shut down) which may temporarily release odors or high noise levels, the Operation Coordinator is to notify Manager Public Government Affairs and Manager QEHS&LAB at least 17 days in advance for Turnaround/Annual Shutdown. Required Information for Turnaround/Annual Shutdown is as follows:

- Main equipment package list
- Chemical list remain in equipment /cleaning chemical which may result in significant impact to environment and control measures
- Equipment Isolation list ready for IEAT inspection

- Shutdown Procedure include preparing equipment, draining, opening, maintenance • Air emission, wastewater and solid waste management
- Flare management; noise, black smoke, heat, light, smell • Safety control on high risk working • Contingency Response Plan
- Contact persons & Communication plan
- Contractor Management; number, Selection criteria/competency, training & Evaluation, Safety promotion, Safety Officer, dedicated temporary area for canteen, toilet, rest area, parking lot, etc.
- Conduct pre startup safety review

For other planned shutdown, Operation Coordinator is to notify Manager Public Government Affairs and Manager QEHS&LAB at least 5 days in advance. The notifications should at least consist of the followings:

- Purpose of planned activities
- Shutdown period and its impact period
- Types and level of impact
- Mitigation Measures of impact e.g., keep low inventory, refine low sulfur feed, install temporary control equipment, etc.

The above notifications shall be completed in the form EHS-FO-QS-1010 Plant Shutdown Startup Notification.doc. PA is responsible for notification to concerned communities, local authorities and industries. For details, refer to the AM-WI-PA-006 Notification on Refinery's Operation Emergency Response Exercise.doc

2.5 Environment, Health and Safety Performance Communications

Environment, Health and Safety Performance Communications

Monthly Environment, Health and Safety Performance reports are communicated to all staff via company Web and the boards located at the Refinery Main Gates and Marine Terminal Control Building.

2.6 Environment Health and Safety Handbook

Environment Health and Safety Handbook

Environment Health and Safety Handbook will be provided to new comer both staff and contractor after finish EHS induction and IIF orientation. Brief EHS policy is also available in this handbook.

2.7 Other Communications via e: mail

Other Communications via e: mail

Electronic mail called e: mail is widely used for internal communications. Messages are usually communicated to concerned persons/divisions/ departments or all staff in a form of EHS Alert / Instructions (e.g., Safety Flash).

2.8 Emergency Response Drill by External Organization

Emergency Response Drill by External Organization

Emergency response drill and alarm testing conducted by neighboring plants are communicated to concerned area by SPRC Emergency Response Coordinator group by e-mail or telephone and morning operation meeting.

For other internal communications, refer to the AM-SP-PA-002 Internal Communication.doc covers various communication channels, printing materials for staff, and internal communication survey.

Appendix**Definitions**

N/A

References

- RMS-SP-SPRC-007 Incident Investigation and Analysis.docx
- EHS-SP-QS-0008 EHS Supporting Committee.doc
- EHS-WI-QS-0002 EHS Meetings.doc
- AM-SP-PA-002 Internal Communication.doc
- AM-SP-PA-003 Corporate Communication.doc
- AM-WI-PA-006 Notification on Refinery's Operation Emergency Response Exercise.doc
- IEAT Notification No. 67/2014, Shutdown/Turnaround for Industries in IEAT and MTP Port

Amendment List

Below is a list of changes between the previous and the current revision of this document.

Revision	Date	Page/Section	Reason	By
0	06-Oct-08	All	First release	QS/1
1	21-Sep-09	P.2/2.1.1	Update Dealing with external complaints work flow and hyperlink	QS21
		P.4/2.1.2	Guidelines for Determination of Validated Complaints	
2	15-Oct-12	P.1,2/1,2.1	1. Add Community Disturbance and revised scope	QS/21
		P.5/2.2.2	2. Updated Documenting and Responding to External Communications	
		P.7/2.4.2	3. Updated Reporting Requirements.	
		P.8/3.1	4. Updated Internal Environmental Complaint Report Guideline	
3	15-Oct-14	P.9 /3.4	Revise Planning for Operation that may cause external impact to comply with the IEAT Notification 67/2014	QS/21
4	22-Dec-14	All	Change SPRC logo	Nipa N. (QS/21)
		P.6/2.3	Add work process for abnormal incident required clarification letter.	
5	12-Apr-16	P.3/2.1	Revised Complaint handling flowchart	Nipa N. (QS/21)
6	4-Jun-18	P.1/ 1	Revised by adding Environment, Health and Safety	Nipa N. (QS/21)
		P.3/2.1	Add Assigned Operator in Complaint handling flowchart	
		P.6/2.2	Revised from Environmental Specialist to EHS Specialist	
7	16-Oct-18	P. 5 / 2.1.2	Revised normal operation scope in Guidelines for Determination of Validated Complaints	Nipa N. (QS/21)
		P.8 /3.1	Revised Internal Environmental Complaint Guideline	
1	28-Feb-19	All	1. Convert from EDMS Procedure Number: EHS-SP-QS-0003 2. Start Revision 1 at SmartProcedures	Nipa N. (QS/21)

No changes specified in the current Revision of this Procedure.

Distribution List

Copy No.	Controller/Holder	Location
00	Electronic Controller	SmartProcedures

ภาคผนวก ข.18

การตรวจสอบระบบท่อขนส่งน้ำมัน และท่อน้ำมันดิบกลางทะเล

การตรวจสอบระบบที่รับน้ำมันใต้ทะเล ทุก 5 ปี



STAR PETROLEUM REFINING COMPANY AND PTT GLOBAL CHEMICAL

Map Ta Phut 48" Subsea Crude Import Pipeline

Ocean Works Asia (Thailand) Co., Ltd.

Pipeline Survey by ROV Report

1	25-May-2023	Initial Submission	KS	CI	MAD
REV	DATE	DESCRIPTION	APRD	CHKD	PREP'D
Client Document No.		OWA Document No.			
N/A		53-66001-27-FIR-01			

OCEAN WORKS ASIA (OWA)
<https://www.owa.com.sg>

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Bangkok 10110 Thailand

Map Ta Phut 48" Subsea Crude Import Pipeline	Page 2 of 10	
	25-May-23	
Final Inspection Report	Rev. 1	

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4.0 Pipeline Inspection	6
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STAR PETROLEUM REFINING COMPANY AND PTT GLOBAL CHEMICAL
Printed 26 May 2023. Uncontrolled when printed.

OCEAN WORKS ASIA
53-66001-27-FIR-01

Map Ta Phut 48" Subsea Crude Import Pipeline	Page 3 of 10	
	25-May-23	
Final Inspection Report	Rev. 1	

Table 1. Document History

Revision	Date	Description of Change
1	25-May-2023	Initial submission

Map Ta Phut 48" Subsea Crude Import Pipeline	Page 4 of 10	
	25-May-23	
Final Inspection Report	Rev. 1	

1.0 General

1.1 Introduction

Ocean Works Asia (Thailand) Co., Ltd. has been requested by Star Petroleum Refining Company (SPRC) for the provision of ROV services, to carry out an inspection of the Map Ta Phut 48" Subsea Crude Import Pipeline. The inspection is part of the ongoing inspection, repair and maintenance (IRM) contract for the SPM off Map Ta Phut, Thailand.

The SPM is located approximately 19km Southeast of the Map Ta Phut Petrochemical Complex in Rayong, Thailand. The pipeline is approximately 19 kilometers long in a water depth of ranging from 0 to 30 meters.

ROV activities were carried out from the 10th to 24th of April 2023 using the Falcon ROV deployed from the SPM maintenance support vessel the Uniwise Rayong.

The inspection consists of a single camera general visual inspection and selected anode CP survey of the pipeline which was overseen by an attending client representative from Star Petroleum Refining Company (SPRC).

1.2 Executive Summary

The extent of the inspection of the 48" Subsea Crude Import Pipeline was from the Map Ta Phut SPM PLEM flange connection at KP0.007 to where the pipeline goes into burial South of the BLCP power station seawall, a distance of approximately 16km.

The flange connection of the pipeline to the PLEM was noted to be in good condition, with no signs of product leak and no damage noted to the flange or the bolts. CP readings recorded on the flange were within limits.

There was a significant amount of debris scattered along the pipeline however there was no associated damage to the pipeline. The debris noted consisted mainly of fishing debris. Other items of debris consisted of an assortment of metallic and non-metallic debris.

The pipeline was noted to be sitting on the seabed with burial ranging from 25% to 90% until the pipeline goes into full burial at KP15.999. There was no significant damage noted to the weight coat. Field joints appear to have degraded bitumastic wrap at the crown of the pipeline however there was no bare metal noted. Anodes inspected were noted to be approximately 25-50% depleted and CP readings taken on selected anode was found to be within limits.

2.0 Scope of Work

The scope of work comprises of the following:

- General Visual Inspection of the starting point of the pipeline from the SPM PLEM section including the 48" flange mating;
- General Visual Inspection of the pipeline from the SPM to as close to shore as reasonably allowed consisting of;
 - Visual inspection of the concrete weight coating, field joints, marine growth and sediment level;
 - Visual signs of any debris fouling damage, corrosion or deterioration of the pipeline;
- Visual inspection of anodes for depletion and damage;

Map Ta Phut 48" Subsea Crude Import Pipeline	Page 5 of 10	
	25-May-23	
Final Inspection Report	Rev. 1	

- Cathodic Potential readings on visible anodes along the pipeline as required, utilizing a contact CP probe;

3.0 PLEM Flange General Visual Inspection

A General Visual Inspection was carried out on the PLEM to Pipeline Flange connection. During the inspection the following was noted:

- There was no signs of product leak and the flange appeared to be secure.
- All the bolts appeared to be secure with no damage or distortion.
- Flange gap appeared to be even all the way round.
- There were no signs of damage to the flange.
- Cathodic potential readings were taken at the flange connection between the PLEM and the pipeline. Readings recorded ranged between (-)969mV and (-)953mV.
- There was no debris on the flange.
- There was approximately 75% overall marine growth coverage on the flange.



PLEM to Pipeline Flange



PLEM to Pipeline Flange

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4.0 Pipeline Inspection

The ROV inspection of the 48" Subsea Crude Import Pipeline was carried out from the PLEM to pipeline flange to where the pipeline went into full burial at KP15.999 outside the South sea wall of the BLCF Power Station.

4.1 General Visual Inspection (GVI)

The pipeline was generally straight heading in a Northly direction. There were no sharp bends or any deviation of the pipeline from the as-laid route. Although there were numerous amounts of debris throughout the extent of the survey, there was no damage noted on the pipeline.

There were scattered sections of soft marine growth mainly along the sides of the pipeline with no marine growth on the crown of the pipeline. A layer of silt was over the pipeline which could obscure any damage however no significant damage was noted.

The field joints on the pipeline appeared to have degraded bitumastic wrap/coating. This was noted as cracking or general degrading predominantly at the crown of the field joint. There was however no bare metal noted at the field joints.



Typical Field Joint Condition – KP8.718



Typical Field Joint Condition – KP0.561

4.2 Anode Condition Survey

A total of 71 anodes were found and inspected. Anodes appeared to be in good condition and secure to the pipeline. Depletion of the anodes was noted to be approximately 25-50%. Oxide deposits on the anode would suggest that the anodes were active.

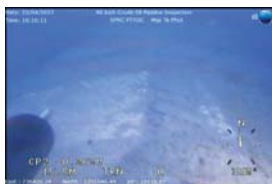


Typical Pipeline Anode – KP0.364



Typical Pipeline Anode – KP2.269

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Typical Pipeline Anode – KP10.110



Typical Pipeline Anode – KP8.626

4.3 Cathodic Potential Measurements (CP)

Cathodic potential readings were taken on selected anodes as a sampling of the performance of the anodes and a gauge of the cathodic protection offered to the pipeline. Cathodic potential readings recorded on selected anode was (-)987mV.

There were no cathodic potential readings taken on the pipeline as there were no areas of bare metal noted.

4.4 Burial & Span

The pipeline was exposed throughout the extent of the inspection. At the flange the pipeline was approximately fully exposed. From then on, the pipeline ranged in burial between 25% and 90% until the pipeline finally went into burial at KP 15.999.

4.5 Debris Survey

Debris was noted on the pipeline throughout the extent of the survey. This consisted mainly fishing nets and traps scattered along the length on both sides and across the pipeline. There were also various items of metallic and nonmetallic debris scattered throughout the extent of the survey.

Although there was a significant amount of debris, there was no associated damage noted to the pipeline.



Fish Trap Remains



Metallic Debris

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Fishing Net



Wire Rope

5.0 Conclusion

Although there was a significant amount of debris along the length of the pipeline there was no damage noted. The pipeline was sitting on the seabed with no span sections. Anodes inspected appear to be active and secure. CP readings taken were found to be within limits.

5.1 Recommendations

When suitable vessels with ability to hold station (DP vessel or 4pt mooring) to support underwater operations is available. Consider carrying out diving operations to;

1. investigate and confirm the condition of the anodes
2. investigate and confirm the condition of the field joints to identify if there are any areas with bare metal.
3. remove major items of debris

6.0 Technical Appraisal

The inspections of the 48" Subsea Crude Import pipeline from the PLEM flange to where the pipeline goes into burial was carried out safely and successfully using the Falcon ROV from onboard the Uniwise Rayong.

6.1 Restrictions and Complications

Complications encountered during the course of the inspection campaign were:

- Debris along the pipeline causing a potential fouling hazard to the ROV.
- Limited visibility affecting the rate of travel and the ability of the ROV to spot hazards.
- Vessels inability to hold station (non-DP vessel) pulling ROV off the pipeline and hindering operations.

Appendix A: Inspection Forms / Reports

- 1) 53-66001-27-PL-01 Photo Log
- 2) 53-66001-27-VI-01 Visual Inspection - Events List
- 3) 53-66001-27-VL-01-Video Log



Photo Log

Date	13 th April 2023	OWA Group	Thailand	Report No	53-66001-27-PL-01
Project No	53-66001	Dive/ROV Sys.	Falcon 12450	Dive No	Refer to dive log
Client	Star Petroleum Refining and PTT Global Chemical			Vessel	Uniwise Rayong
Project Name	PTTGC-SPRC SPM Diving Inspection and Maintenance - 48" Crude Import Pipeline Inspection				
Location	MAP TA PHUT SPM			Video Ref.	53-66001-27-VL-01
DATE	TIME	PHOTO FILE NAME	DESCRIPTION		
13/04/2023	11:35:32	2023-0413-113532-385-CH1	KP0.008 - PLEM to Pipeline flange connection		
13/04/2023	11:35:34	2023-0413-113534-394-CH1	KP0.008 - PLEM to Pipeline flange connection		
13/04/2023	11:35:44	2023-0413-113544-535-CH1	KP0.008 - Cathodic Protection - CP Steel		
13/04/2023	12:54:27	2023-0413-125427-666-CH1	KP0.008 - Cathodic Protection - CP Steel. PLEM side of flange connection CP(-)969mV		
13/04/2023	12:56:13	2023-0413-125613-120-CH1	KP0.009 - Cathodic Protection - CP Steel. Pipeline side of flange connection CP(-)966mV		
13/04/2023	13:06:41	2023-0413-130641-788-CH1	KP0.049- Debris - Netting.		
13/04/2023	13:06:43	2023-0413-130643-821-CH1	KP0.049- Debris - Netting.		
13/04/2023	13:10:50	2023-0413-131050-213-CH1	KP0.059- Debris - Fish Trap. Net		
13/04/2023	13:11:04	2023-0413-131104-409-CH1	KP0.059- Debris - Fish Trap. Net		
13/04/2023	14:45:28	2023-0413-144528-664-CH1	KP0.073- Debris - Netting.		
13/04/2023	14:48:26	2023-0413-144826-088-CH1	KP0.084- Pipeline - Good Condition.		
13/04/2023	14:51:28	2023-0413-145128-605-CH1	KP0.106- Pipeline - Good Condition.		
13/04/2023	14:51:30	2023-0413-145130-629-CH1	KP0.106- Pipeline - Good Condition.		
13/04/2023	15:00:01	2023-0413-150001-675-CH1	KP0.112- Field Joint - Good Condition.		
13/04/2023	15:00:08	2023-0413-150008-779-CH1	KP0.112- Field Joint - Good Condition.		
13/04/2023	15:06:34	2023-0413-150634-084-CH1	KP0.124- Debris - Netting.		
13/04/2023	15:06:36	2023-0413-150636-112-CH1	KP0.124- Debris - Netting.		
13/04/2023	15:09:49	2023-0413-150949-783-CH1	KP0.137- Debris - Netting.		
13/04/2023	15:10:31	2023-0413-151031-355-CH1	KP0.141- Debris - Other.		
13/04/2023	15:15:33	2023-0413-151533-519-CH1	KP0.171- Debris - Netting.		
13/04/2023	15:16:43	2023-0413-151643-483-CH1	KP0.180- Debris - Netting.		
13/04/2023	15:18:26	2023-0413-151826-912-CH1	KP0.186- Debris - Fishing Gear.		
14/04/2023	09:12:45	2023-0414-091245-653-CH1	KP0.186- Debris - Fishing Gear.		
14/04/2023	09:12:48	2023-0414-091248-693-CH1	KP0.186- Debris - Fishing Gear.		
14/04/2023	09:13:16	2023-0414-091316-071-CH1	KP0.186- Debris - Fishing Gear.		
15/04/2023	12:22:05	2023-0415-122205-498-CH1	KP0.188- Debris - Pipe.		
15/04/2023	12:24:37	2023-0415-122437-595-CH1	KP0.191- Debris - Other. Basket		
15/04/2023	12:26:55	2023-0415-122655-496-CH1	KP0.206- Debris - Other.		
15/04/2023	12:27:54	2023-0415-122754-305-CH1	KP0.210- Debris - Fishing Gear. Net		
15/04/2023	12:28:13	2023-0415-122813-574-CH1	KP0.210- Debris - Fishing Gear. Net		
15/04/2023	12:32:15	2023-0415-123215-912-CH1	KP0.246- Debris - Other.		
15/04/2023	12:34:20	2023-0415-123420-630-CH1	KP0.256- Debris - Other.		
15/04/2023	12:36:51	2023-0415-123651-714-CH1	KP0.271- Debris - Fishing Gear. Net		
15/04/2023	12:37:46	2023-0415-123746-469-CH1	KP0.274- Debris - Other.		
15/04/2023	12:39:03	2023-0415-123903-530-CH1	KP0.277- Debris - Fishing Gear. Net		
15/04/2023	13:42:25	2023-0415-134225-969-CH1	KP0.279- Debris - Fish Trap.		
15/04/2023	13:49:01	2023-0415-134901-391-CH1	KP0.280- Debris - Fish Trap.		
15/04/2023	13:50:04	2023-0415-135004-257-CH1	KP0.283- Debris - Fish Trap.		
15/04/2023	13:51:06	2023-0415-135106-111-CH1	KP0.287- Debris - Fish Trap.		



Photo Log

DATE	TIME	PHOTO FILE NAME	DESCRIPTION
15/04/2023	13:52:40	2023-0415-135240-418-CH1	KP0.296- Field Joint - Bitumen Missing.
15/04/2023	13:54:37	2023-0415-135437-018-CH1	KP0.305- Debris - Fishing Gear.
15/04/2023	13:55:59	2023-0415-135559-149-CH1	KP0.309- Field Joint - Bitumen Missing.
15/04/2023	13:57:36	2023-0415-135736-491-CH1	KP0.321- Field Joint - Bitumen Missing.
15/04/2023	13:59:05	2023-0415-135905-725-CH1	KP0.334- Field Joint - Bitumen Missing.
15/04/2023	14:00:21	2023-0415-140021-786-CH1	KP0.345- Debris - Fishing Gear.
15/04/2023	14:02:48	2023-0415-140248-795-CH1	KP0.346- Field Joint - Bitumen Missing.
15/04/2023	14:03:21	2023-0415-140321-243-CH1	KP0.346- Field Joint - Bitumen Missing.
15/04/2023	14:03:43	2023-0415-140343-549-CH1	KP0.348- Debris - Fishing Gear.
15/04/2023	14:05:03	2023-0415-140503-659-CH1	KP0.353- Debris - Fishing Gear.
15/04/2023	14:06:44	2023-0415-140644-039-CH1	KP0.365- Anode Assessment - 25-50% Wasted.
15/04/2023	14:12:55	2023-0415-141255-152-CH1	KP0.401- Debris - Soft Rope.
15/04/2023	14:14:51	2023-0415-141451-759-CH1	KP0.422- Field Joint - Bitumen Missing.
15/04/2023	14:18:50	2023-0415-141850-044-CH1	KP0.458- Debris - Fishing Gear.
15/04/2023	14:19:52	2023-0415-141952-909-CH1	KP0.461- Debris - Debris Field.
15/04/2023	15:23:17	2023-0415-152317-364-CH1	KP0.496- Debris - Fishing Gear.
15/04/2023	15:23:50	2023-0415-152350-824-CH1	KP0.498- Field Joint - Bitumen Missing.
15/04/2023	15:26:50	2023-0415-152650-298-CH1	KP0.523- Field Joint - Bitumen Missing.
15/04/2023	15:28:03	2023-0415-152803-323-CH1	KP0.536- Field Joint - Bitumen Missing.
15/04/2023	15:29:25	2023-0415-152925-436-CH1	KP0.549- Field Joint - Bitumen Missing.
15/04/2023	15:30:45	2023-0415-153045-543-CH1	KP0.559- Debris - Fishing Gear.
15/04/2023	15:31:22	2023-0415-153122-056-CH1	KP0.561- Field Joint - Bitumen Missing.
15/04/2023	15:33:17	2023-0415-153317-637-CH1	KP0.574- Field Joint - Bitumen Missing.
15/04/2023	15:37:58	2023-0415-153758-506-CH1	KP0.600- Field Joint - Bitumen Missing.
15/04/2023	15:38:57	2023-0415-153857-319-CH1	KP0.613- Field Joint - Bitumen Missing.
15/04/2023	15:41:39	2023-0415-154139-553-CH1	KP0.618- Field Joint - Bitumen Missing.
15/04/2023	15:42:34	2023-0415-154234-322-CH1	KP0.625- Field Joint - Bitumen Missing.
15/04/2023	15:44:01	2023-0415-154401-514-CH1	KP0.638- Field Joint - Bitumen Missing.
15/04/2023	15:46:42	2023-0415-154642-729-CH1	KP0.652- Field Joint - Bitumen Missing.
17/04/2023	10:17:07	2023-0417-101707-885-CH1	KP0.652- Field Joint - Bitumen Missing.
17/04/2023	10:18:07	2023-0417-101807-709-CH1	KP0.655- Debris - Fishing Gear. Net
17/04/2023	10:19:07	2023-0417-101907-536-CH1	KP0.663- Debris - Fishing Gear. Net
17/04/2023	10:20:32	2023-0417-102032-708-CH1	KP0.672- Debris - Fishing Gear. Net
17/04/2023	10:21:22	2023-0417-102122-392-CH1	KP0.676- Debris - Fishing Gear. Net
17/04/2023	10:22:34	2023-0417-102234-386-CH1	KP0.690- Field Joint - Bitumen Missing.
17/04/2023	10:23:37	2023-0417-102337-266-CH1	KP0.702- Debris - Fishing Gear.
17/04/2023	10:24:30	2023-0417-102430-992-CH1	KP0.709- Debris - Fishing Gear.
17/04/2023	10:25:05	2023-0417-102505-470-CH1	KP0.712- Debris - Fishing Gear.
17/04/2023	10:25:42	2023-0417-102542-984-CH1	KP0.718- Debris - Fishing Gear.
17/04/2023	10:26:14	2023-0417-102614-419-CH1	KP0.721- Debris - Fishing Gear.
17/04/2023	10:27:39	2023-0417-102739-592-CH1	KP0.728- Field Joint - Bitumen Missing.
17/04/2023	10:27:49	2023-0417-102749-733-CH1	KP0.728- Field Joint - Bitumen Missing.
17/04/2023	10:28:18	2023-0417-102818-122-CH1	KP0.731- Debris - Fishing Gear.
17/04/2023	10:30:21	2023-0417-103021-829-CH1	KP0.766- Field Joint - Bitumen Missing.
17/04/2023	10:31:14	2023-0417-103114-555-CH1	KP0.775- Debris - Fishing Gear.
17/04/2023	10:31:40	2023-0417-103140-919-CH1	KP0.779- Field Joint - Bitumen Missing.



Photo Log

DATE	TIME	PHOTO FILE NAME	DESCRIPTION
17/04/2023	10:35:04	2023-0417-103504-730-CH1	KP0.817- Field Joint - Bitumen Missing.
17/04/2023	10:37:17	2023-0417-103717-574-CH1	KP0.837- Debris - Fishing Gear.
17/04/2023	10:38:05	2023-0417-103805-215-CH1	KP0.842- Field Joint - Bitumen Missing.
17/04/2023	10:39:41	2023-0417-103941-544-CH1	KP0.856- Field Joint - Bitumen Missing.
17/04/2023	10:58:14	2023-0417-105814-888-CH1	KP0.869- Field Joint - Bitumen Missing.
17/04/2023	11:00:11	2023-0417-110011-494-CH1	KP0.881- Field Joint - Bitumen Missing.
17/04/2023	11:15:07	2023-0417-111507-849-CH1	KP0.893- Field Joint - Bitumen Missing.
17/04/2023	11:16:09	2023-0417-111609-705-CH1	KP0.906- Field Joint - Bitumen Missing.
17/04/2023	11:17:10	2023-0417-111710-542-CH1	KP0.919- Field Joint - Bitumen Missing.
17/04/2023	11:18:53	2023-0417-111853-967-CH1	KP0.946- Field Joint - Bitumen Missing.
17/04/2023	11:19:52	2023-0417-111952-776-CH1	KP0.958- Field Joint - Bitumen Missing.
17/04/2023	11:20:06	2023-0417-112006-974-CH1	KP0.958- Field Joint - Bitumen Missing.
17/04/2023	11:20:59	2023-0417-112059-699-CH1	KP0.970- Field Joint - Bitumen Missing.
17/04/2023	11:22:09	2023-0417-112209-665-CH1	KP0.983- Field Joint - Bitumen Missing.
17/04/2023	11:23:02	2023-0417-112302-390-CH1	KP0.995- Field Joint - Bitumen Missing.
17/04/2023	11:24:06	2023-0417-112406-272-CH1	KP1.007- Field Joint - Bitumen Missing.
17/04/2023	11:25:08	2023-0417-112508-124-CH1	KP1.021- Field Joint - Bitumen Missing.
17/04/2023	11:26:07	2023-0417-112607-947-CH1	KP1.033- Field Joint - Bitumen Missing.
17/04/2023	11:26:55	2023-0417-112655-607-CH1	KP1.045- Field Joint - Bitumen Missing.
17/04/2023	11:27:47	2023-0417-112747-319-CH1	KP1.057- Field Joint - Bitumen Missing.
17/04/2023	11:28:50	2023-0417-112850-184-CH1	KP1.070- Field Joint - Bitumen Missing.
17/04/2023	11:29:38	2023-0417-112938-857-CH1	KP1.082- Field Joint - Bitumen Missing.
17/04/2023	11:30:38	2023-0417-113038-681-CH1	KP1.098- Field Joint - Bitumen Missing.
17/04/2023	11:31:33	2023-0417-113133-434-CH1	KP1.108- Field Joint - Bitumen Missing.
17/04/2023	11:32:25	2023-0417-113225-150-CH1	KP1.121- Field Joint - Bitumen Missing.
17/04/2023	11:33:39	2023-0417-113339-169-CH1	KP1.133- Field Joint - Bitumen Missing.
17/04/2023	11:34:41	2023-0417-113441-021-CH1	KP1.146- Field Joint - Bitumen Missing.
17/04/2023	11:35:33	2023-0417-113533-752-CH1	KP1.158- Field Joint - Bitumen Missing.
17/04/2023	11:37:03	2023-0417-113703-996-CH1	KP1.171- Field Joint - Bitumen Missing.
17/04/2023	11:37:57	2023-0417-113757-741-CH1	KP1.184- Field Joint - Bitumen Missing.
17/04/2023	11:39:12	2023-0417-113912-765-CH1	KP1.197- Field Joint - Bitumen Missing.
17/04/2023	11:40:05	2023-0417-114005-495-CH1	KP1.209- Field Joint - Bitumen Missing.
17/04/2023	11:41:01	2023-0417-114101-266-CH1	KP1.222- Field Joint - Bitumen Missing.
17/04/2023	11:41:35	2023-0417-114135-754-CH1	KP1.228- Debris - Fishing Gear.
17/04/2023	11:42:23	2023-0417-114223-396-CH1	KP1.234- Field Joint - Bitumen Missing.
17/04/2023	11:43:26	2023-0417-114326-268-CH1	KP1.247- Field Joint - Bitumen Missing.
17/04/2023	11:44:23	2023-0417-114423-041-CH1	KP1.256- Debris - Soft Debris.
17/04/2023	11:45:33	2023-0417-114533-006-CH1	KP1.272- Field Joint - Bitumen Missing.
17/04/2023	11:46:24	2023-0417-114624-720-CH1	KP1.283- Debris - Fishing Gear.
17/04/2023	11:47:20	2023-0417-114720-488-CH1	KP1.298- Field Joint - Bitumen Missing.
17/04/2023	11:48:50	2023-0417-114850-735-CH1	KP1.311- Field Joint - Bitumen Missing.
17/04/2023	11:49:34	2023-0417-114934-334-CH1	KP1.323- Field Joint - Bitumen Missing.
17/04/2023	11:50:18	2023-0417-115018-947-CH1	KP1.334- Field Joint - Bitumen Missing.
17/04/2023	11:51:13	2023-0417-115113-707-CH1	KP1.348- Field Joint - Bitumen Missing.
17/04/2023	11:51:39	2023-0417-115139-052-CH1	KP1.351- Debris - Fishing Gear.
17/04/2023	11:52:17	2023-0417-115217-583-CH1	KP1.360- Field Joint - Bitumen Missing.



Photo Log

DATE	TIME	PHOTO FILE NAME	DESCRIPTION
17/04/2023	11:52:58	2023-0417-115258-149-CH1	KP1.368- Debris - Fishing Gear.
17/04/2023	11:54:53	2023-0417-115453-737-CH1	KP1.374- Field Joint - Bitumen Missing.
17/04/2023	11:56:22	2023-0417-115622-967-CH1	KP1.385- Field Joint - Bitumen Missing.
17/04/2023	11:57:29	2023-0417-115729-886-CH1	KP1.399- Field Joint - Bitumen Missing.
17/04/2023	11:58:19	2023-0417-115819-575-CH1	KP1.411- Field Joint - Bitumen Missing.
17/04/2023	11:59:14	2023-0417-115914-332-CH1	KP1.424- Field Joint - Bitumen Missing.
17/04/2023	12:00:09	2023-0417-120009-084-CH1	KP1.438- Field Joint - Bitumen Missing.
17/04/2023	12:01:09	2023-0417-120109-920-CH1	KP1.450- Debris - Fishing Gear.
17/04/2023	12:01:59	2023-0417-120159-606-CH1	KP1.462- Field Joint - Bitumen Missing.
17/04/2023	12:02:30	2023-0417-120230-025-CH1	KP1.469- Debris - Fishing Gear.
17/04/2023	12:03:06	2023-0417-120306-528-CH1	KP1.476- Field Joint - Bitumen Missing.
17/04/2023	12:03:45	2023-0417-120345-060-CH1	KP1.488- Field Joint - Bitumen Missing.
17/04/2023	12:04:28	2023-0417-120428-663-CH1	KP1.500- Field Joint - Bitumen Missing.
17/04/2023	13:54:26	2023-0417-135426-600-CH1	KP1.525- Field Joint - Bitumen Missing.
17/04/2023	13:55:25	2023-0417-135525-411-CH1	KP1.538- Field Joint - Bitumen Missing.
17/04/2023	13:56:27	2023-0417-135627-264-CH1	KP1.550- Field Joint - Bitumen Missing.
17/04/2023	13:57:33	2023-0417-135733-176-CH1	KP1.562- Field Joint - Bitumen Missing.
17/04/2023	13:58:15	2023-0417-135815-758-CH1	KP1.569- Debris - Fishing Gear.
17/04/2023	14:15:43	2023-0417-141543-195-CH1	KP1.601- Field Joint - Bitumen Missing.
17/04/2023	14:16:52	2023-0417-141652-145-CH1	KP1.614- Field Joint - Bitumen Missing.
17/04/2023	14:20:45	2023-0417-142045-360-CH1	KP1.636- Debris - Soft Debris.
17/04/2023	14:22:35	2023-0417-142235-883-CH1	KP1.649- Debris - Netting.
17/04/2023	14:41:49	2023-0417-144149-787-CH1	KP1.673- Debris - Fishing Gear.
17/04/2023	14:43:13	2023-0417-144313-948-CH1	KP1.692- Debris - Soft Rope.
17/04/2023	14:44:28	2023-0417-144428-983-CH1	KP1.704- Debris - Soft Rope.
17/04/2023	14:45:47	2023-0417-144547-057-CH1	KP1.715- Field Joint - Bitumen Missing.
17/04/2023	14:48:20	2023-0417-144820-168-CH1	KP1.754- Field Joint - Bitumen Missing.
17/04/2023	14:50:14	2023-0417-145014-750-CH1	KP1.779- Field Joint - Bitumen Missing.
17/04/2023	14:51:24	2023-0417-145124-712-CH1	KP1.791- Field Joint - Bitumen Missing.
17/04/2023	14:53:25	2023-0417-145325-375-CH1	KP1.817- Field Joint - Bitumen Missing.
17/04/2023	14:56:32	2023-0417-145632-960-CH1	KP1.855- Field Joint - Bitumen Missing.
17/04/2023	14:57:23	2023-0417-145723-658-CH1	KP1.865- Field Joint - Bitumen Missing.
17/04/2023	14:59:11	2023-0417-145911-139-CH1	KP1.880- Field Joint - Bitumen Missing.
17/04/2023	15:00:51	2023-0417-150051-524-CH1	KP1.893- Field Joint - Bitumen Missing.
17/04/2023	15:19:43	2023-0417-151943-127-CH1	KP1.918- Field Joint - Bitumen Missing.
17/04/2023	15:20:43	2023-0417-152043-962-CH1	KP1.931- Field Joint - Bitumen Missing.
17/04/2023	15:21:55	2023-0417-152155-959-CH1	KP1.944- Field Joint - Bitumen Missing.
17/04/2023	15:23:14	2023-0417-152314-029-CH1	KP1.957- Field Joint - Bitumen Missing.
17/04/2023	15:39:07	2023-0417-153907-167-CH1	KP1.970- Field Joint - Bitumen Missing.
17/04/2023	15:40:55	2023-0417-154055-663-CH1	KP1.994- Field Joint - Bitumen Missing.
17/04/2023	15:42:04	2023-0417-154204-610-CH1	KP2.008- Field Joint - Bitumen Missing.
17/04/2023	15:43:19	2023-0417-154319-645-CH1	KP2.020- Field Joint - Bitumen Missing.
17/04/2023	15:44:27	2023-0417-154427-582-CH1	KP2.033- Field Joint - Bitumen Missing.
17/04/2023	15:45:40	2023-0417-154540-589-CH1	KP2.045- Field Joint - Bitumen Missing.
17/04/2023	15:50:29	2023-0417-155029-570-CH1	KP2.071- Field Joint - Bitumen Missing.
17/04/2023	15:51:28	2023-0417-155128-380-CH1	KP2.084- Field Joint - Bitumen Missing.

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17/04/2023	15:52:24	2023-0417-155224-156-CH1	KP2.097- Field Joint - Bitumen Missing.
17/04/2023	15:53:17	2023-0417-155317-889-CH1	KP2.110- Field Joint - Bitumen Missing.
17/04/2023	15:54:45	2023-0417-155445-093-CH1	KP2.123- Field Joint - Bitumen Missing.
17/04/2023	15:55:42	2023-0417-155542-889-CH1	KP2.135- Field Joint - Bitumen Missing.
17/04/2023	15:56:25	2023-0417-155625-477-CH1	KP2.140- Anode Assessment - 25-50% Wasted.
17/04/2023	15:57:25	2023-0417-155725-301-CH1	KP2.148- Field Joint - Bitumen Missing.
17/04/2023	15:58:20	2023-0417-155820-057-CH1	KP2.160- Field Joint - Bitumen Missing.
17/04/2023	15:59:01	2023-0417-155901-629-CH1	KP2.173- Debris - Fishing Gear.
17/04/2023	16:02:05	2023-0417-160205-157-CH1	KP2.186- Field Joint - Bitumen Missing.
18/04/2023	08:29:35	2023-0418-082935-718-CH1	KP2.212- Field Joint - Bitumen Missing.
18/04/2023	08:33:40	2023-0418-083340-088-CH1	KP2.262- Field Joint - Bitumen Missing.
18/04/2023	08:34:17	2023-0418-083417-606-CH1	KP2.268- Anode Assessment - 25-50% Wasted.
18/04/2023	08:34:30	2023-0418-083430-788-CH1	KP2.268- Anode Assessment - 25-50% Wasted.
18/04/2023	08:35:15	2023-0418-083515-402-CH1	KP2.272- Debris - Soft Rope.
18/04/2023	08:38:55	2023-0418-083855-433-CH1	KP2.326- Field Joint - Bitumen Missing.
18/04/2023	08:41:22	2023-0418-084122-463-CH1	KP2.351- Field Joint - Bitumen Missing.
18/04/2023	08:42:38	2023-0418-084238-512-CH1	KP2.364- Field Joint - Bitumen Missing.
18/04/2023	08:44:12	2023-0418-084412-808-CH1	KP2.376- Field Joint - Bitumen Missing.
18/04/2023	08:44:20	2023-0418-084420-934-CH1	KP2.376- Field Joint - Bitumen Missing.
18/04/2023	08:45:19	2023-0418-084519-731-CH1	KP2.388- Field Joint - Bitumen Missing.
18/04/2023	08:46:23	2023-0418-084623-615-CH1	KP2.393- Debris - Other.
18/04/2023	09:02:42	2023-0418-090242-116-CH1	KP2.402- Field Joint - Bitumen Missing.
18/04/2023	09:03:40	2023-0418-090340-926-CH1	KP2.414- Field Joint - Bitumen Missing.
18/04/2023	09:04:56	2023-0418-090456-975-CH1	KP2.427- Field Joint - Bitumen Missing.
18/04/2023	09:06:01	2023-0418-090601-869-CH1	KP2.439- Field Joint - Bitumen Missing.
18/04/2023	09:07:02	2023-0418-090702-707-CH1	KP2.452- Field Joint - Bitumen Missing.
18/04/2023	09:07:51	2023-0418-090751-380-CH1	KP2.463- Debris - Soft Rope.
18/04/2023	09:08:53	2023-0418-090853-233-CH1	KP2.478- Field Joint - Bitumen Missing.
18/04/2023	09:09:47	2023-0418-090947-988-CH1	KP2.490- Field Joint - Bitumen Missing.
18/04/2023	09:10:33	2023-0418-091033-617-CH1	KP2.502- Field Joint - Bitumen Missing.
18/04/2023	09:11:20	2023-0418-091120-259-CH1	KP2.515- Field Joint - Bitumen Missing.
18/04/2023	09:12:05	2023-0418-091205-887-CH1	KP2.521- Anode Assessment - 25-50% Wasted.
18/04/2023	09:36:20	2023-0418-093620-943-CH1	KP2.528- Field Joint - Bitumen Missing.
18/04/2023	09:37:20	2023-0418-093720-767-CH1	KP2.539- Debris - Fishing Gear.
18/04/2023	09:38:31	2023-0418-093831-746-CH1	KP2.553- Field Joint - Bitumen Missing.
18/04/2023	09:40:12	2023-0418-094012-128-CH1	KP2.579- Field Joint - Bitumen Missing.
18/04/2023	09:41:50	2023-0418-094150-485-CH1	KP2.605- Field Joint - Bitumen Missing.
18/04/2023	09:42:47	2023-0418-094247-267-CH1	KP2.618- Field Joint - Bitumen Missing.
18/04/2023	09:44:19	2023-0418-094419-538-CH1	KP2.643- Field Joint - Bitumen Missing.
18/04/2023	09:44:57	2023-0418-094457-058-CH1	KP2.649- Anode Assessment - 25-50% Wasted.
18/04/2023	09:46:13	2023-0418-094613-104-CH1	KP2.655- Field Joint - Bitumen Missing.
18/04/2023	09:46:58	2023-0418-094658-734-CH1	KP2.668- Field Joint - Bitumen Missing.
18/04/2023	09:47:49	2023-0418-094749-430-CH1	KP2.682- Field Joint - Bitumen Missing.
18/04/2023	09:48:47	2023-0418-094847-228-CH1	KP2.694- Field Joint - Bitumen Missing.
18/04/2023	09:49:38	2023-0418-094938-943-CH1	KP2.707- Field Joint - Bitumen Missing.
18/04/2023	09:50:14	2023-0418-095014-435-CH1	KP2.719- Field Joint - Bitumen Missing.

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18/04/2023	09:51:04	2023-0418-095104-115-CH1	KP2.733- Field Joint - Bitumen Missing.
18/04/2023	09:51:58	2023-0418-095158-875-CH1	KP2.745- Field Joint - Bitumen Missing.
18/04/2023	09:52:57	2023-0418-095257-679-CH1	KP2.758- Field Joint - Bitumen Missing.
18/04/2023	10:33:52	2023-0418-103352-515-CH1	KP2.768- Field Joint - Bitumen Missing.
18/04/2023	10:34:49	2023-0418-103449-306-CH1	KP2.775- Anode Assessment - 25-50% Wasted.
18/04/2023	10:36:29	2023-0418-103629-682-CH1	KP2.794- Field Joint - Bitumen Missing.
18/04/2023	10:38:03	2023-0418-103803-980-CH1	KP2.821- Field Joint - Bitumen Missing.
18/04/2023	10:38:52	2023-0418-103852-653-CH1	KP2.833- Field Joint - Bitumen Missing.
18/04/2023	10:39:44	2023-0418-103944-364-CH1	KP2.846- Field Joint - Bitumen Missing.
18/04/2023	10:40:14	2023-0418-104014-784-CH1	KP2.848- Debris - Fishing Gear.
18/04/2023	10:41:13	2023-0418-104113-594-CH1	KP2.858- Field Joint - Bitumen Missing.
18/04/2023	10:44:07	2023-0418-104407-897-CH1	KP2.903- Anode Assessment - 25-50% Wasted.
18/04/2023	10:44:39	2023-0418-104439-432-CH1	KP2.908- Field Joint - Bitumen Missing.
18/04/2023	10:45:38	2023-0418-104538-243-CH1	KP2.921- Field Joint - Bitumen Missing.
18/04/2023	10:46:23	2023-0418-104623-871-CH1	KP2.934- Field Joint - Bitumen Missing.
18/04/2023	10:47:13	2023-0418-104713-558-CH1	KP2.947- Field Joint - Bitumen Missing.
18/04/2023	10:48:00	2023-0418-104800-198-CH1	KP2.959- Field Joint - Bitumen Missing.
18/04/2023	10:48:48	2023-0418-104848-874-CH1	KP2.971- Field Joint - Bitumen Missing.
18/04/2023	10:50:17	2023-0418-105017-089-CH1	KP2.997- Field Joint - Bitumen Missing.
18/04/2023	10:51:04	2023-0418-105104-743-CH1	KP3.010- Field Joint - Bitumen Missing.
18/04/2023	10:51:53	2023-0418-105153-414-CH1	KP3.023- Field Joint - Bitumen Missing.
18/04/2023	10:52:32	2023-0418-105232-958-CH1	KP3.030- Anode Assessment - 25-50% Wasted.
18/04/2023	10:57:35	2023-0418-105735-125-CH1	KP3.035- Field Joint - Bitumen Missing.
18/04/2023	10:58:29	2023-0418-105829-879-CH1	KP3.047- Field Joint - Bitumen Missing.
18/04/2023	10:59:14	2023-0418-105914-487-CH1	KP3.060- Field Joint - Bitumen Missing.
18/04/2023	11:01:34	2023-0418-110134-424-CH1	KP3.100- Field Joint - Bitumen Missing.
18/04/2023	11:02:23	2023-0418-110223-092-CH1	KP3.112- Field Joint - Bitumen Missing.
18/04/2023	11:03:41	2023-0418-110341-167-CH1	KP3.131- Debris - Fishing Gear.
18/04/2023	11:04:29	2023-0418-110429-838-CH1	KP3.138- Field Joint - Bitumen Missing.
18/04/2023	11:05:28	2023-0418-110528-650-CH1	KP3.150- Field Joint - Bitumen Missing.
18/04/2023	11:06:07	2023-0418-110607-187-CH1	KP3.157- Anode Assessment - 25-50% Wasted.
18/04/2023	11:06:41	2023-0418-110641-655-CH1	KP3.163- Field Joint - Bitumen Missing.
18/04/2023	11:07:39	2023-0418-110739-452-CH1	KP3.176- Field Joint - Bitumen Missing.
18/04/2023	11:08:25	2023-0418-110825-081-CH1	KP3.188- Field Joint - Bitumen Missing.
18/04/2023	11:09:28	2023-0418-110928-961-CH1	KP3.200- Field Joint - Bitumen Missing.
18/04/2023	11:10:21	2023-0418-111021-689-CH1	KP3.212- Field Joint - Bitumen Missing.
18/04/2023	11:11:53	2023-0418-111153-961-CH1	KP3.239- Field Joint - Bitumen Missing.
18/04/2023	11:12:46	2023-0418-111246-689-CH1	KP3.252- Field Joint - Bitumen Missing.
18/04/2023	11:13:44	2023-0418-111344-484-CH1	KP3.264- Field Joint - Bitumen Missing.
18/04/2023	11:14:34	2023-0418-111434-168-CH1	KP3.276- Field Joint - Bitumen Missing.
18/04/2023	11:15:13	2023-0418-111513-713-CH1	KP3.282- Anode Assessment - 25-50% Wasted. CP1-987mV
18/04/2023	11:16:27	2023-0418-111627-733-CH1	KP3.282- Anode Assessment - 25-50% Wasted. CP1-987mV
18/04/2023	11:16:31	2023-0418-111631-789-CH1	KP3.282- Anode Assessment - 25-50% Wasted. CP1-987mV
18/04/2023	11:16:34	2023-0418-111634-830-CH1	KP3.288- Field Joint - Bitumen Missing.
18/04/2023	11:30:20	2023-0418-113020-207-CH1	KP3.288- Field Joint - Bitumen Missing.
18/04/2023	11:31:40	2023-0418-113140-311-CH1	KP3.312- Field Joint - Bitumen Missing.

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18/04/2023	11:32:34	2023-0418-113234-051-CH1	KP3.325- Field Joint - Bitumen Missing.
18/04/2023	11:33:26	2023-0418-113326-783-CH1	KP3.337- Field Joint - Bitumen Missing.
18/04/2023	11:34:21	2023-0418-113421-534-CH1	KP3.350- Field Joint - Bitumen Missing.
18/04/2023	11:35:00	2023-0418-113500-064-CH1	KP3.363- Field Joint - Bitumen Missing.
18/04/2023	11:35:44	2023-0418-113544-679-CH1	KP3.376- Field Joint - Bitumen Missing.
18/04/2023	11:36:32	2023-0418-113632-337-CH1	KP3.387- Debris - Fishing Gear.
18/04/2023	11:37:34	2023-0418-113734-189-CH1	KP3.401- Field Joint - Bitumen Missing.
18/04/2023	11:38:07	2023-0418-113807-652-CH1	KP3.410- Anode Assessment - 25-50% Wasted.
18/04/2023	11:40:01	2023-0418-114001-214-CH1	KP3.414- Field Joint - Bitumen Missing.
18/04/2023	11:40:44	2023-0418-114044-816-CH1	KP3.426- Field Joint - Bitumen Missing.
18/04/2023	11:41:42	2023-0418-114142-813-CH1	KP3.442- Debris - Fishing Gear.
18/04/2023	11:42:34	2023-0418-114234-325-CH1	KP3.452- Field Joint - Bitumen Missing.
18/04/2023	11:45:26	2023-0418-114526-702-CH1	KP3.502- Field Joint - Bitumen Missing.
18/04/2023	11:46:11	2023-0418-114611-316-CH1	KP3.516- Field Joint - Bitumen Missing.
18/04/2023	11:46:54	2023-0418-114654-919-CH1	KP3.527- Field Joint - Bitumen Missing.
18/04/2023	11:47:31	2023-0418-114731-423-CH1	KP3.533- Anode Assessment - 25-50% Wasted.
18/04/2023	11:50:51	2023-0418-115051-172-CH1	KP3.541- Field Joint - Bitumen Missing.
18/04/2023	11:52:25	2023-0418-115225-473-CH1	KP3.566- Field Joint - Bitumen Missing.
18/04/2023	11:53:12	2023-0418-115312-115-CH1	KP3.578- Field Joint - Bitumen Missing.
18/04/2023	11:53:55	2023-0418-115355-721-CH1	KP3.591- Field Joint - Bitumen Missing.
18/04/2023	11:55:03	2023-0418-115503-653-CH1	KP3.604- Field Joint - Bitumen Missing.
18/04/2023	11:55:51	2023-0418-115551-310-CH1	KP3.617- Field Joint - Bitumen Missing.
18/04/2023	11:56:35	2023-0418-115635-925-CH1	KP3.630- Field Joint - Bitumen Missing.
18/04/2023	11:57:12	2023-0418-115712-429-CH1	KP3.655- Field Joint - Bitumen Missing.
18/04/2023	11:57:54	2023-0418-115754-006-CH1	KP3.655- Field Joint - Bitumen Missing.
18/04/2023	11:58:27	2023-0418-115827-464-CH1	KP3.660- Anode Assessment - 25-50% Wasted.
18/04/2023	11:59:08	2023-0418-115908-021-CH1	KP3.667- Field Joint - Bitumen Missing.
18/04/2023	12:00:02	2023-0418-120002-774-CH1	KP3.680- Field Joint - Bitumen Missing.
18/04/2023	13:27:03	2023-0418-132703-786-CH1	KP3.690- Field Joint - Bitumen Missing.
18/04/2023	13:28:01	2023-0418-132801-583-CH1	KP3.703- Field Joint - Bitumen Missing.
18/04/2023	13:29:03	2023-0418-132903-434-CH1	KP3.716- Field Joint - Bitumen Missing.
18/04/2023	13:29:58	2023-0418-132958-193-CH1	KP3.729- Field Joint - Bitumen Missing.
18/04/2023	13:30:50	2023-0418-133050-917-CH1	KP3.742- Field Joint - Bitumen Missing.
18/04/2023	13:31:47	2023-0418-133147-709-CH1	KP3.754- Field Joint - Bitumen Missing.
18/04/2023	13:32:39	2023-0418-133239-414-CH1	KP3.766- Field Joint - Bitumen Missing.
18/04/2023	13:33:48	2023-0418-133348-368-CH1	KP3.785- Anode Assessment - 25-50% Wasted.
18/04/2023	13:35:42	2023-0418-133542-944-CH1	KP3.805- Field Joint - Bitumen Missing.
18/04/2023	13:36:24	2023-0418-133624-516-CH1	KP3.815- Debris - Fishing Gear.
18/04/2023	13:37:37	2023-0418-133737-521-CH1	KP3.831- Field Joint - Bitumen Missing.
18/04/2023	13:39:30	2023-0418-133930-073-CH1	KP3.869- Field Joint - Bitumen Missing.
18/04/2023	13:40:20	2023-0418-134020-771-CH1	KP3.882- Field Joint - Bitumen Missing.
18/04/2023	13:41:55	2023-0418-134155-072-CH1	KP3.907- Field Joint - Bitumen Missing.
18/04/2023	13:42:50	2023-0418-134250-843-CH1	KP3.913- Anode Assessment - 25-50% Wasted.
18/04/2023	13:43:35	2023-0418-134335-454-CH1	KP3.920- Field Joint - Bitumen Missing.
18/04/2023	13:45:09	2023-0418-134509-754-CH1	KP3.945- Field Joint - Bitumen Missing.
18/04/2023	13:46:49	2023-0418-134649-124-CH1	KP3.971- Field Joint - Bitumen Missing.



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18/04/2023	13:47:40	2023-0418-134740-836-CH1	KP3.983- Field Joint - Bitumen Missing.
18/04/2023	13:48:35	2023-0418-134835-595-CH1	KP3.996- Field Joint - Bitumen Missing.
18/04/2023	13:49:33	2023-0418-134933-388-CH1	KP4.008- Field Joint - Bitumen Missing.
18/04/2023	13:50:38	2023-0418-135038-284-CH1	KP4.020- Field Joint - Bitumen Missing.
18/04/2023	13:51:54	2023-0418-135154-331-CH1	KP4.039- Anode Assessment - 25-50% Wasted.
18/04/2023	13:53:47	2023-0418-135347-896-CH1	KP4.045- Field Joint - Bitumen Missing.
18/04/2023	13:54:44	2023-0418-135444-679-CH1	KP4.058- Field Joint - Bitumen Missing.
18/04/2023	13:55:28	2023-0418-135528-282-CH1	KP4.071- Field Joint - Bitumen Missing.
18/04/2023	13:56:12	2023-0418-135612-893-CH1	KP4.085- Field Joint - Bitumen Missing.
18/04/2023	13:57:02	2023-0418-135702-579-CH1	KP4.097- Field Joint - Bitumen Missing.
18/04/2023	13:58:37	2023-0418-135837-893-CH1	KP4.123- Field Joint - Bitumen Missing.
18/04/2023	13:59:25	2023-0418-135925-551-CH1	KP4.135- Field Joint - Bitumen Missing.
18/04/2023	14:00:16	2023-0418-140016-249-CH1	KP4.148- Field Joint - Bitumen Missing.
18/04/2023	14:01:05	2023-0418-140105-937-CH1	KP4.161- Field Joint - Bitumen Missing.
18/04/2023	14:01:49	2023-0418-140149-535-CH1	KP4.166- Anode Assessment - 25-50% Wasted.
18/04/2023	14:04:13	2023-0418-140413-520-CH1	KP4.173- Field Joint - Bitumen Missing.
18/04/2023	14:04:36	2023-0418-140436-841-CH1	KP4.173- Field Joint - Bitumen Missing.
18/04/2023	14:05:21	2023-0418-140521-456-CH1	KP4.185- Marine Life
18/04/2023	14:06:12	2023-0418-140612-157-CH1	KP4.198- Field Joint - Bitumen Missing.
18/04/2023	14:07:00	2023-0418-140700-827-CH1	KP4.211- Field Joint - Bitumen Missing.
18/04/2023	14:08:22	2023-0418-140822-960-CH1	KP4.235- Field Joint - Bitumen Missing.
18/04/2023	14:09:23	2023-0418-140923-798-CH1	KP4.248- Field Joint - Bitumen Missing.
18/04/2023	14:10:11	2023-0418-141011-453-CH1	KP4.261- Field Joint - Bitumen Missing.
18/04/2023	14:11:38	2023-0418-141138-656-CH1	KP4.287- Field Joint - Bitumen Missing.
18/04/2023	14:12:18	2023-0418-141218-200-CH1	KP4.293- Anode Assessment - 25-50% Wasted.
18/04/2023	14:20:08	2023-0418-142008-685-CH1	KP4.299- Field Joint - Bitumen Missing.
18/04/2023	14:20:58	2023-0418-142058-371-CH1	KP4.314- Field Joint - Bitumen Missing.
18/04/2023	14:21:51	2023-0418-142151-098-CH1	KP4.328- Field Joint - Bitumen Missing.
18/04/2023	14:22:42	2023-0418-142242-808-CH1	KP4.337- Field Joint - Bitumen Missing.
18/04/2023	14:23:31	2023-0418-142331-480-CH1	KP4.350- Field Joint - Bitumen Missing.
18/04/2023	14:24:23	2023-0418-142423-194-CH1	KP4.363- Field Joint - Bitumen Missing.
18/04/2023	14:25:47	2023-0418-142547-352-CH1	KP4.389- Field Joint - Bitumen Missing.
18/04/2023	14:26:39	2023-0418-142639-069-CH1	KP4.401- Field Joint - Bitumen Missing.
18/04/2023	14:27:27	2023-0418-142727-735-CH1	KP4.414- Field Joint - Bitumen Missing.
18/04/2023	14:28:06	2023-0418-142806-266-CH1	KP4.420- Anode Assessment - 25-50% Wasted.
18/04/2023	14:29:58	2023-0418-142958-818-CH1	KP4.439- Field Joint - Bitumen Missing.
18/04/2023	14:30:45	2023-0418-143045-460-CH1	KP4.445- Debris - Fishing Gear.
18/04/2023	14:31:42	2023-0418-143142-243-CH1	KP4.451- Field Joint - Bitumen Missing.
18/04/2023	14:33:20	2023-0418-143320-599-CH1	KP4.474- Debris - Fishing Gear.
18/04/2023	14:34:29	2023-0418-143429-549-CH1	KP4.489- Field Joint - Bitumen Missing.
18/04/2023	14:35:20	2023-0418-143520-249-CH1	KP4.501- Field Joint - Bitumen Missing.
18/04/2023	14:36:06	2023-0418-143606-897-CH1	KP4.514- Field Joint - Bitumen Missing.
18/04/2023	14:36:55	2023-0418-143655-561-CH1	KP4.527- Field Joint - Bitumen Missing.
18/04/2023	14:38:01	2023-0418-143801-471-CH1	KP4.538- Field Joint - Bitumen Missing.
18/04/2023	14:56:54	2023-0418-145654-080-CH1	KP4.545- Anode Assessment - 25-50% Wasted.
18/04/2023	14:57:33	2023-0418-145733-627-CH1	KP4.551- Field Joint - Bitumen Missing.

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18/04/2023	14:58:13	2023-0418-145813-172-CH1	KP4.559- Debris - Fishing Gear.
18/04/2023	14:58:48	2023-0418-145848-662-CH1	KP4.564- Field Joint - Bitumen Missing.
18/04/2023	14:59:37	2023-0418-145937-330-CH1	KP4.576- Field Joint - Bitumen Missing.
18/04/2023	15:00:19	2023-0418-150019-918-CH1	KP4.588- Field Joint - Bitumen Missing.
18/04/2023	15:00:59	2023-0418-150059-464-CH1	KP4.600- Field Joint - Bitumen Missing.
18/04/2023	15:01:52	2023-0418-150152-189-CH1	KP4.612- Field Joint - Bitumen Missing.
18/04/2023	15:02:53	2023-0418-150253-029-CH1	KP4.624- Field Joint - Bitumen Missing.
18/04/2023	15:03:38	2023-0418-150338-658-CH1	KP4.637- Field Joint - Bitumen Missing.
18/04/2023	15:04:24	2023-0418-150424-286-CH1	KP4.649- Field Joint - Bitumen Missing.
18/04/2023	15:05:26	2023-0418-150526-140-CH1	KP4.662- Field Joint - Bitumen Missing.
18/04/2023	15:06:17	2023-0418-150617-852-CH1	KP4.669- Anode Assessment - 25-50% Wasted.
18/04/2023	15:06:57	2023-0418-150657-397-CH1	KP4.674- Field Joint - Bitumen Missing.
18/04/2023	15:07:49	2023-0418-150749-109-CH1	KP4.686- Field Joint - Bitumen Missing.
18/04/2023	15:08:36	2023-0418-150836-766-CH1	KP4.697- Field Joint - Bitumen Missing.
18/04/2023	15:09:25	2023-0418-150925-437-CH1	KP4.710- Field Joint - Bitumen Missing.
18/04/2023	15:10:42	2023-0418-151042-501-CH1	KP4.722- Field Joint - Bitumen Missing.
18/04/2023	15:11:24	2023-0418-151124-072-CH1	KP4.733- Debris - Soft Rope.
18/04/2023	15:11:57	2023-0418-151157-533-CH1	KP4.735- Field Joint - Bitumen Missing.
18/04/2023	15:12:44	2023-0418-151244-177-CH1	KP4.748- Field Joint - Bitumen Missing.
18/04/2023	15:13:30	2023-0418-151330-819-CH1	KP4.760- Field Joint - Bitumen Missing.
18/04/2023	15:14:23	2023-0418-151423-546-CH1	KP4.773- Field Joint - Bitumen Missing.
18/04/2023	15:15:10	2023-0418-151510-189-CH1	KP4.785- Field Joint - Bitumen Missing.
18/04/2023	15:15:41	2023-0418-151541-623-CH1	KP4.793- Anode Assessment - 25-50% Wasted.
18/04/2023	15:16:46	2023-0418-151646-519-CH1	KP4.797- Field Joint - Bitumen Missing.
18/04/2023	15:17:41	2023-0418-151741-279-CH1	KP4.810- Field Joint - Bitumen Missing.
18/04/2023	15:18:15	2023-0418-151815-748-CH1	KP4.817- Debris - Fishing Gear.
18/04/2023	15:18:45	2023-0418-151845-157-CH1	KP4.822- Field Joint - Bitumen Missing.
18/04/2023	15:19:39	2023-0418-151939-907-CH1	KP4.835- Field Joint - Bitumen Missing.
18/04/2023	15:20:31	2023-0418-152031-621-CH1	KP4.848- Field Joint - Bitumen Missing.
18/04/2023	15:21:23	2023-0418-152123-331-CH1	KP4.860- Field Joint - Bitumen Missing.
18/04/2023	15:22:21	2023-0418-152221-129-CH1	KP4.873- Field Joint - Bitumen Missing.
18/04/2023	15:23:05	2023-0418-152305-746-CH1	KP4.885- Field Joint - Bitumen Missing.
18/04/2023	15:23:48	2023-0418-152348-331-CH1	KP4.897- Field Joint - Bitumen Missing.
18/04/2023	15:24:33	2023-0418-152433-959-CH1	KP4.909- Field Joint - Bitumen Missing.
18/04/2023	15:25:03	2023-0418-152503-366-CH1	KP4.914- Debris - Fish Trap. Sitting on pipeline
18/04/2023	15:25:30	2023-0418-152530-744-CH1	KP4.914- Debris - Fish Trap. Sitting on pipeline
18/04/2023	15:25:48	2023-0418-152548-995-CH1	KP4.914- Debris - Fish Trap. Sitting on pipeline
18/04/2023	15:25:58	2023-0418-152558-120-CH1	KP4.914- Debris - Fish Trap. Sitting on pipeline
18/04/2023	15:28:36	2023-0418-152836-300-CH1	KP4.935- Field Joint - Bitumen Missing.
18/04/2023	15:29:24	2023-0418-152924-970-CH1	KP4.949- Field Joint - Bitumen Missing.
18/04/2023	15:30:17	2023-0418-153017-697-CH1	KP4.959- Field Joint - Bitumen Missing.
18/04/2023	15:31:02	2023-0418-153102-311-CH1	KP4.971- Field Joint - Bitumen Missing.
18/04/2023	15:32:34	2023-0418-153234-584-CH1	KP4.997- Field Joint - Bitumen Missing.
18/04/2023	15:34:29	2023-0418-153429-163-CH1	KP5.020- Field Joint - Bitumen Missing.
18/04/2023	15:35:30	2023-0418-153530-006-CH1	KP5.032- Field Joint - Bitumen Missing.
18/04/2023	15:36:27	2023-0418-153627-798-CH1	KP5.045- Field Joint - Bitumen Missing.

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18/04/2023	15:37:19	2023-0418-153719-512-CH1	KP5.057- Field Joint - Bitumen Missing.
18/04/2023	15:39:39	2023-0418-153939-440-CH1	KP5.094- Debris - Soft Rope.
18/04/2023	15:41:21	2023-0418-154121-852-CH1	KP5.119- Field Joint - Bitumen Missing.
18/04/2023	15:43:19	2023-0418-154319-474-CH1	KP5.152- Debris - Fishing Gear.
18/04/2023	15:44:44	2023-0418-154444-647-CH1	KP5.169- Field Joint - Bitumen Missing.
18/04/2023	15:45:32	2023-0418-154532-305-CH1	KP5.181- Field Joint - Bitumen Missing.
19/04/2023	08:09:33	2023-0419-080933-872-CH1	KP5.206- Field Joint - Bitumen Missing.
19/04/2023	08:11:54	2023-0419-081154-816-CH1	KP5.243- Field Joint - Bitumen Missing.
19/04/2023	08:12:37	2023-0419-081237-400-CH1	KP5.255- Field Joint - Bitumen Missing.
19/04/2023	08:13:22	2023-0419-081322-018-CH1	KP5.268- Field Joint - Bitumen Missing.
19/04/2023	08:14:12	2023-0419-081412-716-CH1	KP5.280- Field Joint - Bitumen Missing.
19/04/2023	08:14:45	2023-0419-081445-163-CH1	KP5.287- Anode Assessment - 25-50% Wasted.
19/04/2023	08:15:04	2023-0419-081504-432-CH1	KP5.292- Field Joint - Bitumen Missing.
19/04/2023	08:15:20	2023-0419-081520-654-CH1	KP5.292- Field Joint - Bitumen Missing.
19/04/2023	08:16:26	2023-0419-081626-561-CH1	KP5.304- Debris - Fishing Gear.
19/04/2023	08:18:24	2023-0419-081824-185-CH1	KP5.330- Field Joint - Bitumen Missing.
19/04/2023	08:19:25	2023-0419-081925-020-CH1	KP5.344- Field Joint - Bitumen Missing.
19/04/2023	08:22:35	2023-0419-082235-650-CH1	KP5.380- Field Joint - Bitumen Missing.
19/04/2023	08:23:32	2023-0419-082332-431-CH1	KP5.380- Field Joint - Bitumen Missing.
19/04/2023	08:39:24	2023-0419-083924-557-CH1	KP5.392- Field Joint - Bitumen Missing.
19/04/2023	08:40:07	2023-0419-084007-149-CH1	KP5.405- Field Joint - Bitumen Missing.
19/04/2023	08:40:37	2023-0419-084037-558-CH1	KP5.413- Anode Assessment - 25-50% Wasted
19/04/2023	08:46:11	2023-0419-084611-156-CH1	KP5.417- Field Joint - Bitumen Missing.
19/04/2023	08:46:47	2023-0419-084647-659-CH1	KP5.430- Field Joint - Bitumen Missing.
19/04/2023	08:47:27	2023-0419-084727-204-CH1	KP5.442- Field Joint - Bitumen Missing.
19/04/2023	08:48:42	2023-0419-084842-242-CH1	KP5.466- Field Joint - Bitumen Missing.
19/04/2023	08:50:21	2023-0419-085021-608-CH1	KP5.480- Field Joint - Bitumen Missing.
19/04/2023	08:51:12	2023-0419-085112-306-CH1	KP5.491- Field Joint - Bitumen Missing.
19/04/2023	08:52:05	2023-0419-085205-035-CH1	KP5.503- Field Joint - Bitumen Missing.
19/04/2023	08:52:45	2023-0419-085245-598-CH1	KP5.516- Field Joint - Bitumen Missing.
19/04/2023	08:54:14	2023-0419-085414-825-CH1	KP5.534- Anode Assessment - 25-50% Wasted.
19/04/2023	08:56:14	2023-0419-085614-471-CH1	KP5.552- Field Joint - Bitumen Missing.
19/04/2023	08:56:49	2023-0419-085649-963-CH1	KP5.559- Debris - Soft Rope.
19/04/2023	08:57:44	2023-0419-085744-719-CH1	KP5.565- Field Joint - Bitumen Missing.
19/04/2023	08:58:41	2023-0419-085841-500-CH1	KP5.578- Field Joint - Bitumen Missing.
19/04/2023	08:59:23	2023-0419-085923-070-CH1	KP5.589- Field Joint - Bitumen Missing.
19/04/2023	09:00:01	2023-0419-090001-603-CH1	KP5.603- Field Joint - Bitumen Missing.
19/04/2023	09:00:35	2023-0419-090035-063-CH1	KP5.615- Field Joint - Bitumen Missing.
19/04/2023	09:01:10	2023-0419-090110-553-CH1	KP5.627- Field Joint - Bitumen Missing.
19/04/2023	09:01:46	2023-0419-090146-047-CH1	KP5.639- Field Joint - Bitumen Missing.
19/04/2023	09:01:49	2023-0419-090149-084-CH1	KP5.639- Field Joint - Bitumen Missing.
19/04/2023	09:02:26	2023-0419-090226-606-CH1	KP5.652- Field Joint - Bitumen Missing.
19/04/2023	09:14:05	2023-0419-091415-369-CH1	KP5.664- Field Joint - Bitumen Missing.
19/04/2023	09:15:07	2023-0419-091507-082-CH1	KP5.677- Field Joint - Bitumen Missing.
19/04/2023	09:15:49	2023-0419-091549-668-CH1	KP5.689- Field Joint - Bitumen Missing.
19/04/2023	09:16:28	2023-0419-091628-200-CH1	KP5.702- Field Joint - Bitumen Missing.

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19/04/2023	09:17:06	2023-0419-091706-738-CH1	KP5.714- Field Joint - Bitumen Missing.
19/04/2023	09:17:36	2023-0419-091736-142-CH1	KP5.726- Field Joint - Bitumen Missing.
19/04/2023	09:18:18	2023-0419-091818-727-CH1	KP5.738- Field Joint - Bitumen Missing.
19/04/2023	09:19:43	2023-0419-091943-897-CH1	KP5.750- Field Joint - Bitumen Missing.
19/04/2023	09:20:23	2023-0419-092023-441-CH1	KP5.762- Field Joint - Bitumen Missing.
19/04/2023	09:21:01	2023-0419-092101-974-CH1	KP5.775- Field Joint - Bitumen Missing.
19/04/2023	09:21:32	2023-0419-092132-393-CH1	KP5.781- Anode Assessment - 25-50% Wasted.
19/04/2023	09:22:25	2023-0419-092225-120-CH1	KP5.786- Field Joint - Bitumen Missing.
19/04/2023	09:23:02	2023-0419-092302-638-CH1	KP5.799- Field Joint



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19/04/2023	09:52:27	2023-0419-095227-969-CH1	KP6.269- Field Joint - Bitumen Missing.
19/04/2023	09:52:54	2023-0419-095254-334-CH1	KP6.276- Anode Assessment - 25-50% Wasted.
19/04/2023	09:53:49	2023-0419-095349-089-CH1	KP6.282- Field Joint - Bitumen Missing.
19/04/2023	09:54:32	2023-0419-095432-686-CH1	KP6.294- Field Joint - Bitumen Missing.
19/04/2023	09:55:16	2023-0419-095516-289-CH1	KP6.306- Field Joint - Bitumen Missing.
19/04/2023	09:55:56	2023-0419-095556-848-CH1	KP6.319- Field Joint - Bitumen Missing.
19/04/2023	09:56:39	2023-0419-095639-435-CH1	KP6.331- Field Joint - Bitumen Missing.
19/04/2023	09:57:16	2023-0419-095716-951-CH1	KP6.344- Field Joint - Bitumen Missing.
19/04/2023	09:57:55	2023-0419-095755-485-CH1	KP6.356- Field Joint - Bitumen Missing.
19/04/2023	09:58:29	2023-0419-095829-959-CH1	KP6.369- Field Joint - Bitumen Missing.
19/04/2023	10:00:35	2023-0419-100035-694-CH1	KP6.400- Anode Assessment - 25-50% Wasted.
19/04/2023	10:01:14	2023-0419-100114-222-CH1	KP6.405- Field Joint - Bitumen Missing.
19/04/2023	10:01:53	2023-0419-100153-766-CH1	KP6.418- Field Joint - Bitumen Missing.
19/04/2023	10:02:57	2023-0419-100257-646-CH1	KP6.442- Field Joint - Bitumen Missing.
19/04/2023	10:03:35	2023-0419-100335-165-CH1	KP6.455- Field Joint - Bitumen Missing.
19/04/2023	10:04:06	2023-0419-100406-598-CH1	KP6.467- Field Joint - Bitumen Missing.
19/04/2023	10:05:13	2023-0419-100513-523-CH1	KP6.492- Field Joint - Bitumen Missing.
19/04/2023	10:07:07	2023-0419-100707-084-CH1	KP6.526- Field Joint - Bitumen Missing.
19/04/2023	10:08:03	2023-0419-100803-868-CH1	KP6.533- Debris - Other. Canvas Sheet
19/04/2023	10:09:38	2023-0419-100938-172-CH1	KP6.554- Field Joint - Bitumen Missing.
19/04/2023	10:10:16	2023-0419-101016-700-CH1	KP6.568- Field Joint - Bitumen Missing.
19/04/2023	10:26:08	2023-0419-102608-821-CH1	KP6.578- Field Joint - Bitumen Missing.
19/04/2023	10:26:46	2023-0419-102646-340-CH1	KP6.590- Field Joint - Bitumen Missing.
19/04/2023	10:27:23	2023-0419-102723-855-CH1	KP6.602- Field Joint - Bitumen Missing.
19/04/2023	10:28:01	2023-0419-102801-374-CH1	KP6.614- Field Joint - Bitumen Missing.
19/04/2023	10:28:38	2023-0419-102838-890-CH1	KP6.626- Field Joint - Bitumen Missing.
19/04/2023	10:29:17	2023-0419-102917-424-CH1	KP6.639- Field Joint - Bitumen Missing.
19/04/2023	10:29:45	2023-0419-102945-820-CH1	KP6.645- Anode Assessment - 25-50% Wasted.
19/04/2023	10:30:17	2023-0419-103017-245-CH1	KP6.651- Field Joint - Bitumen Missing.
19/04/2023	10:30:50	2023-0419-103050-708-CH1	KP6.663- Field Joint - Bitumen Missing.
19/04/2023	10:31:20	2023-0419-103120-113-CH1	KP6.675- Field Joint - Bitumen Missing.
19/04/2023	10:31:57	2023-0419-103157-631-CH1	KP6.688- Field Joint - Bitumen Missing.
19/04/2023	10:32:34	2023-0419-103234-132-CH1	KP6.700- Field Joint - Bitumen Missing.
19/04/2023	10:33:07	2023-0419-103307-596-CH1	KP6.713- Field Joint - Bitumen Missing.
19/04/2023	10:33:45	2023-0419-103345-110-CH1	KP6.725- Field Joint - Bitumen Missing.
19/04/2023	10:34:24	2023-0419-103424-656-CH1	KP6.737- Field Joint - Bitumen Missing.
19/04/2023	10:34:59	2023-0419-103459-132-CH1	KP6.750- Field Joint - Bitumen Missing.
19/04/2023	10:35:32	2023-0419-103532-591-CH1	KP6.762- Field Joint - Bitumen Missing.
19/04/2023	10:36:07	2023-0419-103607-069-CH1	KP6.769- Anode Assessment - 25-50% Wasted.
19/04/2023	10:36:40	2023-0419-103640-528-CH1	KP6.775- Field Joint - Bitumen Missing.
19/04/2023	10:37:18	2023-0419-103718-048-CH1	KP6.786- Field Joint - Bitumen Missing.
19/04/2023	10:37:53	2023-0419-103753-545-CH1	KP6.799- Field Joint - Bitumen Missing.
19/04/2023	10:38:31	2023-0419-103831-054-CH1	KP6.810- Field Joint - Bitumen Missing.
19/04/2023	10:39:12	2023-0419-103912-625-CH1	KP6.823- Field Joint - Bitumen Missing.
19/04/2023	10:39:44	2023-0419-103944-061-CH1	KP6.836- Field Joint - Bitumen Missing.
19/04/2023	10:58:26	2023-0419-105826-529-CH1	KP6.848- Field Joint - Bitumen Missing.

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19/04/2023	10:58:54	2023-0419-105854-923-CH1	KP6.849- Debris - Fishing Gear. Net
19/04/2023	11:00:38	2023-0419-110038-347-CH1	KP6.873- Field Joint - Bitumen Missing.
19/04/2023	11:01:14	2023-0419-110114-850-CH1	KP6.885- Field Joint - Bitumen Missing.
19/04/2023	11:01:42	2023-0419-110142-227-CH1	KP6.893- Anode Assessment - 25-50% Wasted.
19/04/2023	11:02:06	2023-0419-110206-564-CH1	KP6.897- Field Joint - Bitumen Missing.
19/04/2023	11:02:29	2023-0419-110229-883-CH1	KP6.902- Debris - Soft Rope.
19/04/2023	11:03:07	2023-0419-110307-400-CH1	KP6.910- Field Joint - Bitumen Missing.
19/04/2023	11:03:45	2023-0419-110345-931-CH1	KP6.922- Field Joint - Bitumen Missing.
19/04/2023	11:04:24	2023-0419-110424-464-CH1	KP6.947- Field Joint - Bitumen Missing.
19/04/2023	11:05:05	2023-0419-110505-025-CH1	KP6.946- Field Joint - Bitumen Missing.
19/04/2023	11:05:32	2023-0419-110532-401-CH1	KP6.953- Debris - Soft Rope.
19/04/2023	11:06:01	2023-0419-110601-806-CH1	KP6.959- Field Joint - Bitumen Missing.
19/04/2023	11:06:40	2023-0419-110640-336-CH1	KP6.970- Field Joint - Bitumen Missing.
19/04/2023	11:07:21	2023-0419-110721-909-CH1	KP6.984- Field Joint - Bitumen Missing.
19/04/2023	11:07:59	2023-0419-110759-426-CH1	KP6.996- Field Joint - Bitumen Missing.
19/04/2023	11:08:36	2023-0419-110836-951-CH1	KP7.017- Field Joint - Bitumen Missing.
19/04/2023	11:09:04	2023-0419-110904-326-CH1	KP7.016- Anode Assessment - 25-50% Wasted.
19/04/2023	11:10:09	2023-0419-111009-215-CH1	KP7.021- Field Joint - Bitumen Missing.
19/04/2023	11:10:53	2023-0419-111053-831-CH1	KP7.033- Field Joint - Bitumen Missing.
19/04/2023	11:11:41	2023-0419-111141-489-CH1	KP7.045- Field Joint - Bitumen Missing.
19/04/2023	11:12:24	2023-0419-111224-075-CH1	KP7.058- Field Joint - Bitumen Missing.
19/04/2023	11:13:04	2023-0419-111304-635-CH1	KP7.070- Field Joint - Bitumen Missing.
19/04/2023	11:13:43	2023-0419-111343-167-CH1	KP7.082- Field Joint - Bitumen Missing.
19/04/2023	11:14:17	2023-0419-111417-639-CH1	KP7.091- Field Joint - Bitumen Missing.
19/04/2023	11:14:39	2023-0419-111439-950-CH1	KP7.095- Field Joint - Bitumen Missing.
19/04/2023	11:15:26	2023-0419-111526-589-CH1	KP7.108- Field Joint - Bitumen Missing.
19/04/2023	11:16:35	2023-0419-111635-543-CH1	KP7.132- Field Joint - Bitumen Missing.
19/04/2023	11:22:30	2023-0419-112230-431-CH1	KP7.140- Anode Assessment - 25-50% Wasted.
19/04/2023	11:22:34	2023-0419-112234-490-CH1	KP7.144- Field Joint - Bitumen Missing.
19/04/2023	11:34:02	2023-0419-113402-978-CH1	KP7.144- Field Joint - Bitumen Missing.
19/04/2023	11:34:59	2023-0419-113459-760-CH1	KP7.157- Field Joint - Bitumen Missing.
19/04/2023	11:35:38	2023-0419-113538-290-CH1	KP7.177- Field Joint - Bitumen Missing.
19/04/2023	11:36:19	2023-0419-113619-864-CH1	KP7.181- Field Joint - Bitumen Missing.
19/04/2023	11:36:58	2023-0419-113658-398-CH1	KP7.196- Field Joint - Bitumen Missing.
19/04/2023	11:37:43	2023-0419-113743-010-CH1	KP7.207- Field Joint - Bitumen Missing.
19/04/2023	11:38:22	2023-0419-113822-554-CH1	KP7.219- Field Joint - Bitumen Missing.
19/04/2023	13:14:14	2023-0419-131414-840-CH1	KP7.241- Field Joint - Bitumen Missing.
19/04/2023	13:14:51	2023-0419-131451-344-CH1	KP7.244- Field Joint - Bitumen Missing.
19/04/2023	13:15:33	2023-0419-131533-932-CH1	KP7.257- Field Joint - Bitumen Missing.
19/04/2023	13:15:59	2023-0419-131559-281-CH1	KP7.264- Anode Assessment - 25-50% Wasted.
19/04/2023	13:16:24	2023-0419-131624-632-CH1	KP7.269- Field Joint - Bitumen Missing.
19/04/2023	13:17:01	2023-0419-131701-132-CH1	KP7.281- Field Joint - Bitumen Missing.
19/04/2023	13:17:39	2023-0419-131739-663-CH1	KP7.295- Field Joint - Bitumen Missing.
19/04/2023	13:18:17	2023-0419-131817-183-CH1	KP7.306- Field Joint - Bitumen Missing.
19/04/2023	13:18:48	2023-0419-131848-616-CH1	KP7.318- Field Joint - Bitumen Missing.
19/04/2023	13:19:23	2023-0419-131923-090-CH1	KP7.331- Field Joint - Bitumen Missing.

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19/04/2023	13:19:57	2023-0419-131957-564-CH1	KP7.343- Field Joint - Bitumen Missing.
19/04/2023	13:20:30	2023-0419-132030-012-CH1	KP7.356- Field Joint - Bitumen Missing.
19/04/2023	13:21:06	2023-0419-132106-516-CH1	KP7.368- Field Joint - Bitumen Missing.
19/04/2023	13:21:37	2023-0419-132137-949-CH1	KP7.381- Field Joint - Bitumen Missing.
19/04/2023	13:22:00	2023-0419-132200-256-CH1	KP7.387- Anode Assessment - 25-50% Wasted.
19/04/2023	13:22:27	2023-0419-132227-632-CH1	KP7.393- Field Joint - Bitumen Missing.
19/04/2023	13:23:03	2023-0419-132303-123-CH1	KP7.405- Field Joint - Bitumen Missing.
19/04/2023	13:24:15	2023-0419-132415-115-CH1	KP7.430- Field Joint - Bitumen Missing.
19/04/2023	13:24:53	2023-0419-132453-646-CH1	KP7.442- Field Joint - Bitumen Missing.
19/04/2023	13:25:33	2023-0419-132533-191-CH1	KP7.454- Field Joint - Bitumen Missing.
19/04/2023	13:26:20	2023-0419-132620-848-CH1	KP7.466- Field Joint - Bitumen Missing.
19/04/2023	13:27:04	2023-0419-132704-455-CH1	KP7.479- Field Joint - Bitumen Missing.
19/04/2023	13:27:42	2023-0419-132742-981-CH1	KP7.491- Field Joint - Bitumen Missing.
19/04/2023	13:28:21	2023-0419-132821-511-CH1	KP7.504- Field Joint - Bitumen Missing.
19/04/2023	13:28:48	2023-0419-132848-888-CH1	KP7.511- Anode Assessment - 25-50% Wasted.
19/04/2023	13:29:33	2023-0419-132933-520-CH1	KP7.516- Field Joint - Bitumen Missing.
19/04/2023	13:30:18	2023-0419-133018-119-CH1	KP7.529- Field Joint - Bitumen Missing.
19/04/2023	13:30:58	2023-0419-133058-679-CH1	KP7.541- Field Joint - Bitumen Missing.
19/04/2023	13:31:38	2023-0419-133138-224-CH1	KP7.554- Field Joint - Bitumen Missing.
19/04/2023	13:32:09	2023-0419-133209-658-CH1	KP7.562- Debris - Soft Rope.
19/04/2023	13:32:40	2023-0419-133240-076-CH1	KP7.567- Field Joint - Bitumen Missing.
19/04/2023	13:33:20	2023-0419-133320-634-CH1	KP7.578- Field Joint - Bitumen Missing.
19/04/2023	13:33:58	2023-0419-133358-150-CH1	KP7.591- Field Joint - Bitumen Missing.
19/04/2023	13:34:36	2023-0419-133436-662-CH1	KP7.604- Field Joint - Bitumen Missing.
19/04/2023	13:35:12	2023-0419-133512-171-CH1	KP7.616- Field Joint - Bitumen Missing.
19/04/2023	13:35:54	2023-0419-133554-757-CH1	KP7.629- Field Joint - Bitumen Missing.
19/04/2023	13:36:28	2023-0419-133628-225-CH1	KP7.636- Anode Assessment - 25-50% Wasted.
19/04/2023	13:37:04	2023-0419-133704-724-CH1	KP7.641- Field Joint - Bitumen Missing.
19/04/2023	13:37:39	2023-0419-133739-198-CH1	KP7.653- Field Joint - Bitumen Missing.
19/04/2023	13:39:09	2023-0419-133909-448-CH1	KP7.678- Field Joint - Bitumen Missing.
19/04/2023	13:39:59	2023-0419-133959-126-CH1	KP7.690- Field Joint - Bitumen Missing.
19/04/2023	13:40:37	2023-0419-134037-661-CH1	KP7.702- Field Joint - Bitumen Missing.
19/04/2023	13:41:18	2023-0419-134118-217-CH1	KP7.715- Field Joint - Bitumen Missing.
19/04/2023	13:41:57	2023-0419-134157-761-CH1	KP7.727- Field Joint - Bitumen Missing.
19/04/2023	13:42:41	2023-0419-134241-363-CH1	KP7.740- Field Joint - Bitumen Missing.
19/04/2023	13:43:13	2023-0419-134313-811-CH1	KP7.745- Debris - Soft Rope.
19/04/2023	13:43:58	2023-0419-134358-424-CH1	KP7.754- Field Joint - Bitumen Missing.
19/04/2023	13:44:32	2023-0419-134432-902-CH1	KP7.759- Anode Assessment - 25-50% Wasted.
19/04/2023	13:49:21	2023-0419-134921-885-CH1	KP7.764- Field Joint - Bitumen Missing.
19/04/2023	13:50:03	2023-0419-135003-455-CH1	KP7.777- Field Joint - Bitumen Missing.
19/04/2023	13:50:40	2023-0419-135040-974-CH1	KP7.788- Field Joint - Bitumen Missing.
19/04/2023	13:51:16	2023-0419-135116-466-CH1	KP7.801- Field Joint - Bitumen Missing.
19/04/2023	13:51:50	2023-0419-135150-937-CH1	KP7.813- Field Joint - Bitumen Missing.
19/04/2023	13:52:22	2023-0419-135222-371-CH1	KP7.826- Field Joint - Bitumen Missing.
19/04/2023	14:07:12	2023-0419-140712-643-CH1	KP7.835- Debris - Fishing Gear.
19/04/2023	14:08:25	2023-0419-140825-651-CH1	KP7.850- Field Joint - Bitumen Missing.

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19/04/2023	14:08:54	2023-0419-140854-039-CH1	KP7.857- Debris - Fishing Gear.
19/04/2023	14:09:54	2023-0419-140954-891-CH1	KP7.876- Field Joint - Bitumen Missing.
19/04/2023	14:10:23	2023-0419-141023-270-CH1	KP7.882- Anode Assessment - 25-50% Wasted.
19/04/2023	14:10:53	2023-0419-141053-693-CH1	KP7.888- Field Joint - Bitumen Missing.
19/04/2023	14:11:32	2023-0419-141132-221-CH1	KP7.900- Field Joint - Bitumen Missing.
19/04/2023	14:12:11	2023-0419-141211-767-CH1	KP7.913- Field Joint - Bitumen Missing.
19/04/2023	14:12:51	2023-0419-141251-310-CH1	KP7.926- Field Joint - Bitumen Missing.
19/04/2023	14:13:24	2023-0419-141324-773-CH1	KP7.938- Field Joint - Bitumen Missing.
19/04/2023	14:13:57	2023-0419-141357-219-CH1	KP7.950- Field Joint - Bitumen Missing.
19/04/2023	14:14:27	2023-0419-141427-639-CH1	KP7.962- Field Joint - Bitumen Missing.
19/04/2023	14:15:02	2023-0419-141502-111-CH1	KP7.975- Field Joint - Bitumen Missing.
19/04/2023	14:15:36	2023-0419-141536-590-CH1	KP7.987- Field Joint - Bitumen Missing.
19/04/2023	14:16:08	2023-0419-141608-027-CH1	KP8.000- Field Joint - Bitumen Missing.
19/04/2023	14:16:38	2023-0419-141638-442-CH1	KP8.008- Anode Assessment - 25-50% Wasted.
19/04/2023	14:23:46	2023-0419-142346-340-CH1	KP8.037- Field Joint - Bitumen Missing.
19/04/2023	14:24:28	2023-0419-142428-926-CH1	KP8.050- Field Joint - Bitumen Missing.
19/04/2023	14:25:06	2023-0419-142506-442-CH1	KP8.062- Field Joint - Bitumen Missing.
19/04/2023	14:25:50	2023-0419-142550-045-CH1	KP8.075- Field Joint - Bitumen Missing.
19/04/2023	14:38:22	2023-0419-143822-415-CH1	KP8.088- Field Joint - Bitumen Missing.
19/04/2023	14:38:59	2023-0419-143859-932-CH1	KP8.100- Field Joint - Bitumen Missing.
19/04/2023	14:39:49	2023-0419-143949-614-CH1	KP8.113- Field Joint - Bitumen Missing.
19/04/2023	14:40:26	2023-0419-144026-120-CH1	KP8.126- Field Joint - Bitumen Missing.
19/04/2023	14:40:55	2023-0419-144055-525-CH1	KP8.132- Anode Assessment - 25-50% Wasted.
19/04/2023	14:41:40	2023-0419-144140-140-CH1	KP8.137- Field Joint - Bitumen Missing.
19/04/2023	14:42:00	2023-0419-144200-419-CH1	KP8.137- Field Joint - Bitumen Missing.
19/04/2023	14:42:30	2023-0419-144230-838-CH1	KP8.150- Field Joint - Bitumen Missing.
19/04/2023	14:43:10	2023-0419-144310-392-CH1	KP8.162- Field Joint - Bitumen Missing.
19/04/2023	14:43:43	2023-0419-144343-843-CH1	KP8.174- Field Joint - Bitumen Missing.
19/04/2023	14:44:04	2023-0419-144404-126-CH1	KP8.175- Debris - Fishing Gear.
19/04/2023	14:45:02	2023-0419-144502-934-CH1	KP8.186- Field Joint - Bitumen Missing.
19/04/2023	14:45:54	2023-0419-144554-660-CH1	KP8.199- Field Joint - Bitumen Missing.
19/04/2023	14:46:39	2023-0419-144639-263-CH1	KP8.213- Field Joint - Bitumen Missing.
19/04/2023	14:47:29	2023-0419-144729-960-CH1	KP8.224- Field Joint - Bitumen Missing.
19/04/2023	14:48:07	2023-0419-144807-478-CH1	KP8.233- Debris - Soft Rope.
19/04/2023	14:48:34	2023-0419-144834-855-CH1	KP8.233- Debris - Soft Rope.
19/04/2023	14:49:19	2023-0419-144919-470-CH1	KP8.249- Field Joint - Bitumen Missing.
19/04/2023	14:49:46	2023-0419-144946-949-CH1	KP8.253- Debris - Fishing Gear.
19/04/2023	14:50:12	2023-0419-145012-198-CH1	KP8.258- Anode Assessment - 25-50% Wasted.
19/04/2023	14:50:51	2023-0419-145051-743-CH1	KP8.260- Field Joint - Bitumen Missing.
19/04/2023	14:51:47	2023-0419-145147-513-CH1	KP8.273- Field Joint - Bitumen Missing.
19/04/2023	14:52:52	2023-0419-145252-406-CH1	KP8.285- Field Joint - Bitumen Missing.
19/04/2023	14:53:39	2023-0419-145339-049-CH1	KP8.298- Field Joint - Bitumen Missing.
19/04/2023	14:54:16	2023-0419-145416-566-CH1	KP8.311- Field Joint - Bitumen Missing.
19/04/2023	14:55:07	2023-0419-145507-269-CH1	KP8.323- Field Joint - Bitumen Missing.
19/04/2023	14:55:56	2023-0419-145556-952-CH1	KP8.335- Field Joint - Bitumen Missing.
19/04/2023	14:56:32	2023-0419-145632-440-CH1	KP8.348- Field Joint - Bitumen Missing.



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DATE	TIME	PHOTO FILE NAME	DESCRIPTION
19/04/2023	14:57:18	2023-0419-145718-068-CH1	KP8.354- Debris - Fishing Gear.
19/04/2023	14:57:33	2023-0419-145733-277-CH1	KP8.354- Debris - Fishing Gear.
19/04/2023	15:04:17	2023-0419-150417-853-CH1	KP8.373- Field Joint - Bitumen Missing.
19/04/2023	15:04:59	2023-0419-150459-428-CH1	KP8.380- Anode Assessment - 25-50% Wasted.
19/04/2023	15:05:34	2023-0419-150534-916-CH1	KP8.385- Field Joint - Bitumen Missing.
19/04/2023	15:05:42	2023-0419-150542-030-CH1	KP8.385- Field Joint - Bitumen Missing.
19/04/2023	15:06:21	2023-0419-150621-558-CH1	KP8.397- Field Joint - Bitumen Missing.
19/04/2023	15:07:01	2023-0419-150701-108-CH1	KP8.410- Field Joint - Bitumen Missing.
19/04/2023	15:07:48	2023-0419-150748-762-CH1	KP8.422- Field Joint - Bitumen Missing.
19/04/2023	15:08:34	2023-0419-150834-390-CH1	KP8.435- Field Joint - Bitumen Missing.
19/04/2023	15:09:13	2023-0419-150913-934-CH1	KP8.447- Field Joint - Bitumen Missing.
19/04/2023	15:10:13	2023-0419-151013-758-CH1	KP8.461- Field Joint - Bitumen Missing.
19/04/2023	15:11:04	2023-0419-151104-456-CH1	KP8.472- Field Joint - Bitumen Missing.
19/04/2023	15:11:51	2023-0419-151151-101-CH1	KP8.484- Field Joint - Bitumen Missing.
19/04/2023	15:12:27	2023-0419-151227-605-CH1	KP8.497- Field Joint - Bitumen Missing.
19/04/2023	15:12:54	2023-0419-151254-983-CH1	KP8.501- Anode Assessment - 25-50% Wasted.
19/04/2023	15:16:43	2023-0419-151643-126-CH1	KP8.508- Field Joint - Bitumen Missing.
19/04/2023	15:17:24	2023-0419-151724-699-CH1	KP8.521- Field Joint - Bitumen Missing.
19/04/2023	15:18:19	2023-0419-151819-453-CH1	KP8.545- Field Joint - Bitumen Missing.
19/04/2023	15:19:18	2023-0419-151918-266-CH1	KP8.547- Field Joint - Bitumen Missing.
19/04/2023	15:20:01	2023-0419-152001-870-CH1	KP8.559- Field Joint - Bitumen Missing.
19/04/2023	15:20:58	2023-0419-152058-649-CH1	KP8.571- Field Joint - Bitumen Missing.
19/04/2023	15:21:47	2023-0419-152147-321-CH1	KP8.585- Field Joint - Bitumen Missing.
19/04/2023	15:22:29	2023-0419-152229-906-CH1	KP8.609- Field Joint - Bitumen Missing.
19/04/2023	15:23:12	2023-0419-152312-492-CH1	KP8.609- Field Joint - Bitumen Missing.
19/04/2023	15:23:33	2023-0419-152333-787-CH1	KP8.609- Debris - Fishing Gear.
19/04/2023	15:24:39	2023-0419-152439-694-CH1	KP8.621- Field Joint - Bitumen Missing.
19/04/2023	15:25:09	2023-0419-152509-100-CH1	KP8.627- Anode Assessment - 25-50% Wasted.
19/04/2023	15:25:46	2023-0419-152546-619-CH1	KP8.633- Field Joint - Bitumen Missing.
19/04/2023	15:26:26	2023-0419-152626-162-CH1	KP8.645- Field Joint - Bitumen Missing.
19/04/2023	15:29:18	2023-0419-152918-538-CH1	KP8.657- Field Joint - Bitumen Missing.
19/04/2023	15:30:14	2023-0419-153014-312-CH1	KP8.670- Field Joint - Bitumen Missing.
19/04/2023	15:30:55	2023-0419-153055-880-CH1	KP8.682- Field Joint - Bitumen Missing.
19/04/2023	15:31:39	2023-0419-153139-480-CH1	KP8.695- Field Joint - Bitumen Missing.
19/04/2023	15:32:22	2023-0419-153222-067-CH1	KP8.707- Field Joint - Bitumen Missing.
19/04/2023	15:32:59	2023-0419-153259-588-CH1	KP8.719- Field Joint - Bitumen Missing.
19/04/2023	15:33:51	2023-0419-153351-298-CH1	KP8.731- Field Joint - Bitumen Missing.
19/04/2023	15:34:34	2023-0419-153434-899-CH1	KP8.742- Field Joint - Bitumen Missing.
19/04/2023	15:35:12	2023-0419-153512-417-CH1	KP8.749- Anode Assessment - 25-50% Wasted.
19/04/2023	15:35:50	2023-0419-153550-947-CH1	KP8.754- Field Joint - Bitumen Missing.
19/04/2023	15:54:28	2023-0419-155428-350-CH1	KP8.779- Field Joint - Bitumen Missing.
19/04/2023	15:55:00	2023-0419-155500-795-CH1	KP8.791- Field Joint - Bitumen Missing.
19/04/2023	15:55:43	2023-0419-155543-384-CH1	KP8.803- Field Joint - Bitumen Missing.
19/04/2023	15:56:16	2023-0419-155616-852-CH1	KP8.817- Field Joint - Bitumen Missing.
19/04/2023	15:56:48	2023-0419-155648-278-CH1	KP8.830- Field Joint - Bitumen Missing.
19/04/2023	15:57:19	2023-0419-155719-714-CH1	KP8.840- Field Joint - Bitumen Missing.

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19/04/2023	15:57:59	2023-0419-155759-256-CH1	KP8.854- Field Joint - Bitumen Missing.
19/04/2023	16:07:44	2023-0419-160744-322-CH1	KP8.854- Field Joint - Bitumen Missing.
19/04/2023	16:08:31	2023-0419-160831-987-CH1	KP8.865- Field Joint - Bitumen Missing.
19/04/2023	16:08:52	2023-0419-160852-264-CH1	KP8.871- Anode Assessment - 25-50% Wasted.
19/04/2023	16:09:15	2023-0419-160915-585-CH1	KP8.877- Field Joint - Bitumen Missing.
19/04/2023	16:09:47	2023-0419-160947-010-CH1	KP8.889- Field Joint - Bitumen Missing.
19/04/2023	16:10:17	2023-0419-161017-430-CH1	KP8.902- Field Joint - Bitumen Missing.
19/04/2023	16:10:48	2023-0419-161048-866-CH1	KP8.914- Field Joint - Bitumen Missing.
19/04/2023	16:11:25	2023-0419-161125-368-CH1	KP8.931- Field Joint - Bitumen Missing.
19/04/2023	16:12:09	2023-0419-161209-982-CH1	KP8.940- Field Joint - Bitumen Missing.
19/04/2023	16:13:11	2023-0419-161311-836-CH1	KP8.951- Field Joint - Bitumen Missing.
19/04/2023	16:14:01	2023-0419-161401-519-CH1	KP8.964- Field Joint - Bitumen Missing.
19/04/2023	16:14:41	2023-0419-161441-067-CH1	KP8.976- Field Joint - Bitumen Missing.
19/04/2023	16:15:15	2023-0419-161515-540-CH1	KP8.988- Field Joint - Bitumen Missing.
19/04/2023	16:15:43	2023-0419-161543-930-CH1	KP8.995- Anode Assessment - 25-50% Wasted.
19/04/2023	16:16:03	2023-0419-161603-196-CH1	KP9.001- Field Joint - Bitumen Missing.
19/04/2023	16:16:48	2023-0419-161648-832-CH1	KP9.010- Debris - Hard Debris.
19/04/2023	16:17:09	2023-0419-161709-107-CH1	KP9.010- Debris - Hard Debris.
19/04/2023	16:19:16	2023-0419-161916-871-CH1	KP9.036- Debris - Wire Rope.
19/04/2023	16:19:33	2023-0419-161933-091-CH1	KP9.036- Debris - Wire Rope.
19/04/2023	16:20:48	2023-0419-162048-125-CH1	KP9.050- Field Joint - Bitumen Missing.
22/04/2023	09:12:40	2023-0422-091240-050-CH1	KP9.064- Field Joint - Bitumen Missing.
22/04/2023	09:13:41	2023-0422-091341-905-CH1	KP9.073- Debris - Fishing Gear.
22/04/2023	09:14:09	2023-0422-091409-287-CH1	KP9.076- Field Joint - Bitumen Missing.
22/04/2023	09:15:09	2023-0422-091509-105-CH1	KP9.088- Field Joint - Bitumen Missing.
22/04/2023	09:15:52	2023-0422-091552-706-CH1	KP9.101- Field Joint - Bitumen Missing.
22/04/2023	09:16:54	2023-0422-091654-561-CH1	KP9.114- Field Joint - Bitumen Missing.
22/04/2023	09:17:29	2023-0422-091729-034-CH1	KP9.121- Anode Assessment - 25-50% Wasted.
22/04/2023	09:18:13	2023-0422-091813-648-CH1	KP9.125- Field Joint - Bitumen Missing.
22/04/2023	09:19:05	2023-0422-091905-361-CH1	KP9.138- Field Joint - Bitumen Missing.
22/04/2023	09:20:02	2023-0422-092002-145-CH1	KP9.150- Field Joint - Bitumen Missing.
22/04/2023	09:20:55	2023-0422-092055-885-CH1	KP9.162- Field Joint - Bitumen Missing.
22/04/2023	09:21:41	2023-0422-092141-511-CH1	KP9.175- Field Joint - Bitumen Missing.
22/04/2023	09:22:26	2023-0422-092226-127-CH1	KP9.187- Field Joint - Bitumen Missing.
22/04/2023	09:23:13	2023-0422-092313-797-CH1	KP9.199- Field Joint - Bitumen Missing.
22/04/2023	09:23:36	2023-0422-092336-095-CH1	KP9.204- Debris - Fishing Gear.
22/04/2023	09:24:05	2023-0422-092405-498-CH1	KP9.211- Field Joint - Bitumen Missing.
22/04/2023	09:25:07	2023-0422-092507-349-CH1	KP9.225- Field Joint - Bitumen Missing.
22/04/2023	09:25:58	2023-0422-092558-050-CH1	KP9.237- Field Joint - Bitumen Missing.
22/04/2023	09:26:34	2023-0422-092634-550-CH1	KP9.244- Anode Assessment - 25-50% Wasted.
22/04/2023	09:27:12	2023-0422-092712-069-CH1	KP9.247- Debris - Wire Rope.
22/04/2023	09:27:37	2023-0422-092737-418-CH1	KP9.250- Field Joint - Bitumen Missing.
22/04/2023	09:28:14	2023-0422-092814-934-CH1	KP9.255- Debris - Fishing Gear.
22/04/2023	09:28:50	2023-0422-092850-422-CH1	KP9.261- Field Joint - Bitumen Missing.
22/04/2023	09:29:40	2023-0422-092940-108-CH1	KP9.274- Field Joint - Bitumen Missing.
22/04/2023	09:30:24	2023-0422-093024-723-CH1	KP9.286- Field Joint - Bitumen Missing.

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22/04/2023	09:31:06	2023-0422-093106-297-CH1	KP9.298- Field Joint - Bitumen Missing.
22/04/2023	09:32:01	2023-0422-093201-301-CH1	KP9.311- Field Joint - Bitumen Missing.
22/04/2023	09:32:52	2023-0422-093252-000-CH1	KP9.324- Field Joint - Bitumen Missing.
22/04/2023	09:33:43	2023-0422-093343-715-CH1	KP9.336- Field Joint - Bitumen Missing.
22/04/2023	09:34:29	2023-0422-093429-340-CH1	KP9.349- Field Joint - Bitumen Missing.
22/04/2023	09:35:09	2023-0422-093509-897-CH1	KP9.361- Field Joint - Bitumen Missing.
22/04/2023	09:35:38	2023-0422-093538-295-CH1	KP9.369- Anode Assessment - 25-50% Wasted.
22/04/2023	09:36:04	2023-0422-093604-654-CH1	KP9.374- Field Joint - Bitumen Missing.
22/04/2023	09:36:44	2023-0422-093644-198-CH1	KP9.386- Field Joint - Bitumen Missing.
22/04/2023	09:37:27	2023-0422-093727-800-CH1	KP9.398- Field Joint - Bitumen Missing.
22/04/2023	09:38:12	2023-0422-093812-414-CH1	KP9.410- Field Joint - Bitumen Missing.
22/04/2023	09:38:46	2023-0422-093846-890-CH1	KP9.417- Debris - Soft Rope.
22/04/2023	09:39:09	2023-0422-093909-198-CH1	KP9.423- Field Joint - Bitumen Missing.
22/04/2023	09:39:49	2023-0422-093949-755-CH1	KP9.435- Field Joint - Bitumen Missing.
22/04/2023	09:40:38	2023-0422-094038-427-CH1	KP9.448- Field Joint - Bitumen Missing.
22/04/2023	09:41:21	2023-0422-094121-013-CH1	KP9.460- Field Joint - Bitumen Missing.
22/04/2023	09:42:04	2023-0422-094204-615-CH1	KP9.472- Field Joint - Bitumen Missing.
22/04/2023	09:42:49	2023-0422-094249-230-CH1	KP9.484- Field Joint - Bitumen Missing.
22/04/2023	09:43:14	2023-0422-094314-580-CH1	KP9.491- Anode Assessment - 25-50% Wasted.
22/04/2023	09:43:40	2023-0422-094340-943-CH1	KP9.496- Field Joint - Bitumen Missing.
22/04/2023	09:44:28	2023-0422-094428-598-CH1	KP9.509- Field Joint - Bitumen Missing.
22/04/2023	09:45:12	2023-0422-094512-199-CH1	KP9.521- Field Joint - Bitumen Missing.
22/04/2023	09:45:45	2023-0422-094545-667-CH1	KP9.533- Field Joint - Bitumen Missing.
22/04/2023	09:46:19	2023-0422-094619-122-CH1	KP9.546- Field Joint - Bitumen Missing.
22/04/2023	09:46:50	2023-0422-094650-555-CH1	KP9.559- Field Joint - Bitumen Missing.
22/04/2023	09:47:20	2023-0422-094720-974-CH1	KP9.571- Field Joint - Bitumen Missing.
22/04/2023	09:47:34	2023-0422-094734-155-CH1	KP9.571- Field Joint - Bitumen Missing.
22/04/2023	09:48:18	2023-0422-094818-770-CH1	KP9.583- Field Joint - Bitumen Missing.
22/04/2023	09:48:52	2023-0422-094852-231-CH1	KP9.596- Field Joint - Bitumen Missing.
22/04/2023	09:49:32	2023-0422-094932-791-CH1	KP9.609- Field Joint - Bitumen Missing.
22/04/2023	09:50:37	2023-0422-095037-684-CH1	KP9.633- Field Joint - Bitumen Missing.
22/04/2023	09:51:13	2023-0422-095113-175-CH1	KP9.646- Field Joint - Bitumen Missing.
22/04/2023	09:51:45	2023-0422-095145-622-CH1	KP9.658- Field Joint - Bitumen Missing.
22/04/2023	09:52:33	2023-0422-095233-277-CH1	KP9.674- Debris - Fishing Gear.
22/04/2023	09:53:12	2023-0422-095312-824-CH1	KP9.682- Debris - Fishing Gear.
22/04/2023	09:53:55	2023-0422-095355-411-CH1	KP9.695- Field Joint - Bitumen Missing.
22/04/2023	09:54:35	2023-0422-095435-969-CH1	KP9.708- Field Joint - Bitumen Missing.
22/04/2023	09:55:14	2023-0422-095514-500-CH1	KP9.720- Field Joint - Bitumen Missing.
22/04/2023	09:55:56	2023-0422-095556-073-CH1	KP9.732- Debris - Fishing Gear.
22/04/2023	09:56:15	2023-0422-095615-339-CH1	KP9.736- Debris - Fishing Gear.
22/04/2023	09:56:51	2023-0422-095651-842-CH1	KP9.744- Field Joint - Bitumen Missing.
22/04/2023	09:57:09	2023-0422-095709-078-CH1	KP9.749- Debris - Fishing Gear.
22/04/2023	09:57:34	2023-0422-095734-428-CH1	KP9.757- Field Joint - Bitumen Missing.
22/04/2023	09:58:49	2023-0422-095849-465-CH1	KP9.782- Field Joint - Bitumen Missing.
22/04/2023	09:59:27	2023-0422-095927-994-CH1	KP9.794- Field Joint - Bitumen Missing.
22/04/2023	10:00:05	2023-0422-100005-510-CH1	KP9.806- Field Joint - Bitumen Missing.

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22/04/2023	10:00:45	2023-0422-100045-056-CH1	KP9.818- Field Joint - Bitumen Missing.
22/04/2023	10:01:23	2023-0422-100123-588-CH1	KP9.831- Field Joint - Bitumen Missing.
22/04/2023	10:02:00	2023-0422-100200-090-CH1	KP9.844- Field Joint - Bitumen Missing.
22/04/2023	10:02:34	2023-0422-100234-565-CH1	KP9.856- Field Joint - Bitumen Missing.
22/04/2023	10:03:10	2023-0422-100310-054-CH1	KP9.863- Anode Assessment - 25-50% Wasted.
22/04/2023	10:04:03	2023-0422-100403-794-CH1	KP9.881- Field Joint - Bitumen Missing.
22/04/2023	10:04:36	2023-0422-100436-244-CH1	KP9.893- Field Joint - Bitumen Missing.
22/04/2023	10:05:05	2023-0422-100505-647-CH1	KP9.902- Debris - Fishing Gear.
22/04/2023	10:05:21	2023-0422-100521-871-CH1	KP9.902- Debris - Fishing Gear.
22/04/2023	10:05:53	2023-0422-100553-304-CH1	KP9.917- Field Joint - Bitumen Missing.
22/04/2023	10:06:25	2023-0422-100625-750-CH1	KP9.930- Field Joint - Bitumen Missing.
22/04/2023	10:06:57	2023-0422-100657-185-CH1	KP9.942- Field Joint - Bitumen Missing.
22/04/2023	10:07:36	2023-0422-100736-729-CH1	KP9.955- Field Joint - Bitumen Missing.
22/04/2023	10:08:15	2023-0422-100815-260-CH1	KP9.966- Debris - Soft Rope.
22/04/2023	10:08:28	2023-0422-100828-442-CH1	KP9.966- Debris - Soft Rope.
22/04/2023	10:09:04	2023-0422-100904-944-CH1	KP9.980- Field Joint - Bitumen Missing.
22/04/2023	10:09:26	2023-0422-100926-238-CH1	KP9.987- Anode Assessment - 25-50% Wasted.
22/04/2023	10:09:46	2023-0422-100946-519-CH1	KP9.987- Anode Assessment - 25-50% Wasted.
22/04/2023	10:10:34	2023-0422-101034-175-CH1	KP9.1004- Field Joint - Bitumen Missing.
22/04/2023	10:11:21	2023-0422-101121-832-CH1	KP9.1017- Field Joint - Bitumen Missing.
22/04/2023	10:12:03	2023-0422-101203-407-CH1	KP9.1029- Field Joint - Bitumen Missing.
22/04/2023	10:12:44	2023-0422-101244-977-CH1	KP10.041- Field Joint - Bitumen Missing.
22/04/2023	10:13:21	2023-0422-101321-482-CH1	KP10.054- Field Joint - Bitumen Missing.
22/04/2023	10:13:54	2023-0422-101354-943-CH1	KP10.066- Field Joint - Bitumen Missing.
22/04/2023	10:14:27	2023-0422-101427-389-CH1	KP10.079- Field Joint - Bitumen Missing.
22/04/2023	10:15:06	2023-0422-101506-936-CH1	KP10.091- Field Joint - Bitumen Missing.
22/04/2023	10:15:43	2023-0422-101543-438-CH1	KP10.104- Field Joint - Bitumen Missing.
22/04/2023	10:16:12	2023-0422-101612-843-CH1	KP10.111- Anode Assessment - 25-50% Wasted.
22/04/2023	10:16:58	2023-0422-101658-471-CH1	KP10.116- Field Joint - Bitumen Missing.
22/04/2023	10:17:34	2023-0422-101734-975-CH1	KP10.129- Field Joint - Bitumen Missing.
22/04/2023	10:18:23	2023-0422-101823-846-CH1	KP10.142- Field Joint - Bitumen Missing.
22/04/2023	10:19:05	2023-0422-101905-220-CH1	KP10.154- Field Joint - Bitumen Missing.
22/04/2023	10:19:43	2023-0422-101943-751-CH1	KP10.166- Field Joint - Bitumen Missing.
22/04/2023	10:20:31	2023-0422-102031-406-CH1	KP10.179- Field Joint - Bitumen Missing.
22/04/2023	10:21:13	2023-0422-102113-995-CH1	KP10.192- Field Joint - Bitumen Missing.
22/04/2023	10:21:56	2023-0422-102156-579-CH1	KP10.204- Field Joint - Bitumen Missing.
22/04/2023	10:22:38	2023-0422-102238-154-CH1	KP10.217- Field Joint - Bitumen Missing.
22/04/2023	10:23:19	2023-0422-102319-726-CH1	KP10.229- Field Joint - Bitumen Missing.
22/04/2023	10:23:46	2023-0422-102346-090-CH1	KP10.236- Anode Assessment - 25-50% Wasted.
22/04/2023	10:24:36	2023-0422-102436-787-CH1	KP10.241- Field Joint - Bitumen Missing.
22/04/2023	10:25:20	2023-0422-102520-389-CH1	KP10.254- Field Joint - Bitumen Missing.
22/04/2023	10:26:01	2023-0422-102601-961-CH1	KP10.270- Field Joint - Bitumen Missing.
22/04/2023	10:26:42	2023-0422-102642-522-CH1	KP10.273- Debris - Fishing Gear.
22/04/2023	10:28:19	2023-0422-102819-863-CH1	KP10.279- Field Joint - Bitumen Missing.
22/04/2023	10:29:09	2023-0422-102909-551-CH1	KP10.291- Field Joint - Bitumen Missing.
22/04/2023	10:29:54	2023-0422-102954-162-CH1	KP10.303- Field Joint - Bitumen Missing.



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22/04/2023	10:30:39	2023-0422-103039-791-CH1	KP10.316- Field Joint - Bitumen Missing.
22/04/2023	10:31:01	2023-0422-103101-084-CH1	KP10.319- Debris - Fishing Gear.
22/04/2023	10:31:35	2023-0422-103135-561-CH1	KP10.329- Field Joint - Bitumen Missing.
22/04/2023	10:32:24	2023-0422-103224-230-CH1	KP10.340- Field Joint - Bitumen Missing.
22/04/2023	10:33:10	2023-0422-103310-874-CH1	KP10.353- Field Joint - Bitumen Missing.
22/04/2023	10:33:40	2023-0422-103340-278-CH1	KP10.360- Anode Assessment - 25-50% Wasted.
22/04/2023	10:34:06	2023-0422-103406-647-CH1	KP10.365- Field Joint - Bitumen Missing.
22/04/2023	10:34:45	2023-0422-103445-177-CH1	KP10.378- Field Joint - Bitumen Missing.
22/04/2023	10:35:27	2023-0422-103527-760-CH1	KP10.390- Field Joint - Bitumen Missing.
22/04/2023	10:36:06	2023-0422-103606-291-CH1	KP10.403- Field Joint - Bitumen Missing.
22/04/2023	10:37:12	2023-0422-103712-199-CH1	KP10.427- Field Joint - Bitumen Missing.
22/04/2023	10:37:42	2023-0422-103742-618-CH1	KP10.439- Field Joint - Bitumen Missing.
22/04/2023	10:38:14	2023-0422-103814-053-CH1	KP10.452- Field Joint - Bitumen Missing.
22/04/2023	10:38:45	2023-0422-103845-486-CH1	KP10.465- Field Joint - Bitumen Missing.
22/04/2023	10:39:17	2023-0422-103917-932-CH1	KP10.476- Field Joint - Bitumen Missing.
22/04/2023	10:39:42	2023-0422-103942-268-CH1	KP10.484- Anode Assessment - 25-50% Wasted.
22/04/2023	10:40:00	2023-0422-104000-520-CH1	KP10.489- Field Joint - Bitumen Missing.
22/04/2023	10:40:32	2023-0422-104032-966-CH1	KP10.502- Field Joint - Bitumen Missing.
22/04/2023	10:41:08	2023-0422-104108-455-CH1	KP10.514- Field Joint - Bitumen Missing.
22/04/2023	10:41:45	2023-0422-104145-972-CH1	KP10.526- Field Joint - Bitumen Missing.
22/04/2023	10:42:21	2023-0422-104221-463-CH1	KP10.538- Field Joint - Bitumen Missing.
22/04/2023	10:42:56	2023-0422-104256-951-CH1	KP10.551- Field Joint - Bitumen Missing.
22/04/2023	10:43:58	2023-0422-104358-804-CH1	KP10.563- Field Joint - Bitumen Missing.
22/04/2023	10:44:42	2023-0422-104442-403-CH1	KP10.575- Field Joint - Bitumen Missing.
22/04/2023	10:45:20	2023-0422-104520-933-CH1	KP10.588- Field Joint - Bitumen Missing.
22/04/2023	10:45:53	2023-0422-104553-383-CH1	KP10.597- Debris - Wire Rope.
22/04/2023	10:46:15	2023-0422-104615-688-CH1	KP10.600- Field Joint - Bitumen Missing.
22/04/2023	10:46:49	2023-0422-104649-149-CH1	KP10.607- Anode Assessment - 25-50% Wasted.
22/04/2023	10:47:13	2023-0422-104713-485-CH1	KP10.612- Field Joint - Bitumen Missing.
22/04/2023	10:48:20	2023-0422-104820-409-CH1	KP10.638- Field Joint - Bitumen Missing.
22/04/2023	10:48:56	2023-0422-104856-913-CH1	KP10.650- Field Joint - Bitumen Missing.
22/04/2023	10:49:38	2023-0422-104938-482-CH1	KP10.663- Field Joint - Bitumen Missing.
22/04/2023	10:50:19	2023-0422-105019-043-CH1	KP10.675- Field Joint - Bitumen Missing.
22/04/2023	10:51:04	2023-0422-105104-672-CH1	KP10.687- Field Joint - Bitumen Missing.
22/04/2023	10:51:43	2023-0422-105143-203-CH1	KP10.700- Field Joint - Bitumen Missing.
22/04/2023	10:52:29	2023-0422-105229-845-CH1	KP10.713- Field Joint - Bitumen Missing.
22/04/2023	10:52:32	2023-0422-105232-888-CH1	KP10.713- Field Joint - Bitumen Missing.
22/04/2023	10:53:18	2023-0422-105318-516-CH1	KP10.726- Field Joint - Bitumen Missing.
22/04/2023	10:53:46	2023-0422-105346-908-CH1	KP10.733- Anode Assessment - 25-50% Wasted.
22/04/2023	10:54:19	2023-0422-105419-355-CH1	KP10.738- Field Joint - Bitumen Missing.
22/04/2023	10:54:53	2023-0422-105453-830-CH1	KP10.750- Field Joint - Bitumen Missing.
22/04/2023	10:55:32	2023-0422-105532-367-CH1	KP10.762- Field Joint - Bitumen Missing.
22/04/2023	10:56:10	2023-0422-105610-893-CH1	KP10.777- Field Joint - Bitumen Missing.
22/04/2023	10:57:01	2023-0422-105701-591-CH1	KP10.788- Field Joint - Bitumen Missing.
22/04/2023	10:57:35	2023-0422-105735-053-CH1	KP10.801- Field Joint - Bitumen Missing.
22/04/2023	10:58:08	2023-0422-105808-513-CH1	KP10.813- Field Joint - Bitumen Missing.

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22/04/2023	12:52:31	2023-0422-125231-095-CH1	KP11.517- Field Joint - Bitumen Missing.
22/04/2023	12:53:14	2023-0422-125314-699-CH1	KP11.529- Field Joint - Bitumen Missing.
22/04/2023	12:54:36	2023-0422-125436-828-CH1	KP11.534- Debris - Fish Trap.
22/04/2023	12:54:46	2023-0422-125446-969-CH1	KP11.534- Debris - Fish Trap.
22/04/2023	12:55:19	2023-0422-125519-417-CH1	KP11.541- Field Joint - Bitumen Missing.
22/04/2023	12:57:46	2023-0422-125746-445-CH1	KP11.554- Field Joint - Bitumen Missing.
22/04/2023	12:58:35	2023-0422-125835-114-CH1	KP11.566- Field Joint - Bitumen Missing.
22/04/2023	12:59:24	2023-0422-125924-799-CH1	KP11.579- Field Joint - Bitumen Missing.
22/04/2023	13:00:09	2023-0422-130009-414-CH1	KP11.591- Field Joint - Bitumen Missing.
22/04/2023	13:00:36	2023-0422-130036-793-CH1	KP11.598- Anode Assessment - 25-50% Wasted.
22/04/2023	13:01:46	2023-0422-130146-755-CH1	KP11.616- Field Joint - Bitumen Missing.
22/04/2023	13:02:29	2023-0422-130229-342-CH1	KP11.628- Field Joint - Bitumen Missing.
22/04/2023	13:03:14	2023-0422-130314-971-CH1	KP11.641- Field Joint - Bitumen Missing.
22/04/2023	13:03:59	2023-0422-130359-587-CH1	KP11.652- Field Joint - Bitumen Missing.
22/04/2023	13:04:47	2023-0422-130447-242-CH1	KP11.664- Field Joint - Bitumen Missing.
22/04/2023	13:05:38	2023-0422-130538-957-CH1	KP11.677- Field Joint - Bitumen Missing.
22/04/2023	13:06:23	2023-0422-130623-570-CH1	KP11.689- Field Joint - Bitumen Missing.
22/04/2023	13:07:10	2023-0422-130710-213-CH1	KP11.702- Field Joint - Bitumen Missing.
22/04/2023	13:07:56	2023-0422-130756-856-CH1	KP11.714- Field Joint - Bitumen Missing.
22/04/2023	13:08:22	2023-0422-130822-205-CH1	KP11.722- Anode Assessment - 25-50% Wasted.
22/04/2023	13:08:43	2023-0422-130843-499-CH1	KP11.722- Anode Assessment - 25-50% Wasted.
22/04/2023	13:09:31	2023-0422-130931-157-CH1	KP11.739- Field Joint - Bitumen Missing.
22/04/2023	13:10:13	2023-0422-131013-744-CH1	KP11.752- Field Joint - Bitumen Missing.
22/04/2023	13:11:03	2023-0422-131103-426-CH1	KP11.765- Field Joint - Bitumen Missing.
22/04/2023	13:11:49	2023-0422-131149-058-CH1	KP11.778- Field Joint - Bitumen Missing.
22/04/2023	13:12:31	2023-0422-131231-643-CH1	KP11.789- Field Joint - Bitumen Missing.
22/04/2023	13:14:00	2023-0422-131400-874-CH1	KP11.814- Field Joint - Bitumen Missing.
22/04/2023	13:14:49	2023-0422-131449-544-CH1	KP11.825- Field Joint - Bitumen Missing.
22/04/2023	13:15:36	2023-0422-131536-186-CH1	KP11.837- Field Joint - Bitumen Missing.
22/04/2023	13:15:58	2023-0422-131558-495-CH1	KP11.844- Anode Assessment - 25-50% Wasted.
22/04/2023	13:16:22	2023-0422-131622-830-CH1	KP11.850- Field Joint - Bitumen Missing.
22/04/2023	13:17:00	2023-0422-131700-347-CH1	KP11.861- Field Joint - Bitumen Missing.
22/04/2023	13:18:22	2023-0422-131822-477-CH1	KP11.887- Field Joint - Bitumen Missing.
22/04/2023	13:19:04	2023-0422-131904-053-CH1	KP11.900- Field Joint - Bitumen Missing.
22/04/2023	13:19:45	2023-0422-131945-625-CH1	KP11.911- Field Joint - Bitumen Missing.
22/04/2023	13:20:30	2023-0422-132030-239-CH1	KP11.924- Field Joint - Bitumen Missing.
22/04/2023	13:21:15	2023-0422-132115-869-CH1	KP11.937- Field Joint - Bitumen Missing.
22/04/2023	13:21:58	2023-0422-132158-456-CH1	KP11.948- Field Joint - Bitumen Missing.
22/04/2023	13:22:46	2023-0422-132246-113-CH1	KP11.961- Field Joint - Bitumen Missing.
22/04/2023	13:23:36	2023-0422-132336-809-CH1	KP11.974- Field Joint - Bitumen Missing.
22/04/2023	13:24:20	2023-0422-132420-413-CH1	KP11.986- Field Joint - Bitumen Missing.
22/04/2023	13:24:27	2023-0422-132427-510-CH1	KP11.986- Field Joint - Bitumen Missing.
22/04/2023	13:25:24	2023-0422-132524-292-CH1	KP11.998- Field Joint - Bitumen Missing.
22/04/2023	13:26:21	2023-0422-132621-077-CH1	KP12.010- Field Joint - Bitumen Missing.
22/04/2023	13:27:45	2023-0422-132745-235-CH1	KP12.022- Field Joint - Bitumen Missing.
22/04/2023	13:27:52	2023-0422-132752-333-CH1	KP12.023- Debris - Soft Debris, Hose section

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22/04/2023	10:59:23	2023-0422-105923-549-CH1	KP10.838- Field Joint - Bitumen Missing.
22/04/2023	10:59:57	2023-0422-105957-008-CH1	KP10.850- Field Joint - Bitumen Missing.
22/04/2023	11:00:24	2023-0422-110024-386-CH1	KP10.857- Anode Assessment - 25-50% Wasted.
22/04/2023	11:03:38	2023-0422-110338-055-CH1	KP10.863- Field Joint - Bitumen Missing.
22/04/2023	11:04:09	2023-0422-110409-488-CH1	KP10.876- Field Joint - Bitumen Missing.
22/04/2023	11:04:47	2023-0422-110447-006-CH1	KP10.888- Field Joint - Bitumen Missing.
22/04/2023	11:05:25	2023-0422-110525-536-CH1	KP10.899- Field Joint - Bitumen Missing.
22/04/2023	11:05:55	2023-0422-110555-954-CH1	KP10.913- Field Joint - Bitumen Missing.
22/04/2023	11:06:29	2023-0422-110629-417-CH1	KP10.924- Field Joint - Bitumen Missing.
22/04/2023	11:07:01	2023-0422-110701-865-CH1	KP10.937- Field Joint - Bitumen Missing.
22/04/2023	11:07:33	2023-0422-110733-296-CH1	KP10.950- Field Joint - Bitumen Missing.
22/04/2023	11:08:13	2023-0422-110813-858-CH1	KP10.962- Field Joint - Bitumen Missing.
22/04/2023	11:08:47	2023-0422-110847-316-CH1	KP10.974- Field Joint - Bitumen Missing.
22/04/2023	11:09:07	2023-0422-110907-598-CH1	KP10.981- Anode Assessment - 25-50% Wasted.
22/04/2023	11:09:30	2023-0422-110930-920-CH1	KP10.986- Field Joint - Bitumen Missing.
22/04/2023	11:10:00	2023-0422-111000-323-CH1	KP10.999- Field Joint - Bitumen Missing.
22/04/2023	11:10:41	2023-0422-111041-896-CH1	KP11.011- Field Joint - Bitumen Missing.
22/04/2023	11:11:13	2023-0422-111113-329-CH1	KP11.024- Field Joint - Bitumen Missing.
22/04/2023	11:11:42	2023-0422-111142-734-CH1	KP11.033- Debris - Wire Rope.
22/04/2023	11:11:58	2023-0422-111158-958-CH1	KP11.033- Debris - Wire Rope.
22/04/2023	11:12:32	2023-0422-111232-419-CH1	KP11.048- Field Joint - Bitumen Missing.
22/04/2023	11:15:03	2023-0422-111503-503-CH1	KP11.105- Anode Assessment - 25-50% Wasted.
22/04/2023	11:15:20	2023-0422-111520-740-CH1	KP11.105- Anode Assessment - 25-50% Wasted.
22/04/2023	11:16:17	2023-0422-111617-536-CH1	KP11.135- Field Joint - Bitumen Missing.
22/04/2023	11:17:24	2023-0422-111724-444-CH1	KP11.160- Field Joint - Bitumen Missing.
22/04/2023	11:17:58	2023-0422-111758-920-CH1	KP11.173- Field Joint - Bitumen Missing.
22/04/2023	11:18:35	2023-0422-111835-424-CH1	KP11.185- Field Joint - Bitumen Missing.
22/04/2023	11:19:13	2023-0422-111913-954-CH1	KP11.198- Field Joint - Bitumen Missing.
22/04/2023	11:19:54	2023-0422-111954-513-CH1	KP11.210- Field Joint - Bitumen Missing.
22/04/2023	11:20:27	2023-0422-112027-973-CH1	KP11.219- Debris - Soft Rope.
22/04/2023	11:20:52	2023-0422-112052-309-CH1	KP11.219- Debris - Soft Rope.
22/04/2023	11:21:19	2023-0422-112119-686-CH1	KP11.229- Anode Assessment - 25-50% Wasted.
22/04/2023	11:21:51	2023-0422-112151-120-CH1	KP11.235- Field Joint - Bitumen Missing.
22/04/2023	11:22:23	2023-0422-112223-566-CH1	KP11.247- Field Joint - Bitumen Missing.
22/04/2023	11:23:03	2023-0422-112303-112-CH1	KP11.259- Field Joint - Bitumen Missing.
22/04/2023	11:24:18	2023-0422-112418-146-CH1	KP11.285- Field Joint - Bitumen Missing.
22/04/2023	11:24:51	2023-0422-112451-608-CH1	KP11.296- Field Joint - Bitumen Missing.
22/04/2023	12:40:27	2023-0422-124027-118-CH1	KP11.320- Field Joint - Bitumen Missing.
22/04/2023	12:42:21	2023-0422-124221-698-CH1	KP11.352- Anode Assessment - 25-50% Wasted.
22/04/2023	12:43:18	2023-0422-124318-480-CH1	KP11.370- Field Joint - Bitumen Missing.
22/04/2023	12:43:59	2023-0422-124359-039-CH1	KP11.382- Field Joint - Bitumen Missing.
22/04/2023	12:45:53	2023-0422-124553-619-CH1	KP11.418- Field Joint - Bitumen Missing.
22/04/2023	12:46:36	2023-0422-124636-205-CH1	KP11.430- Field Joint - Bitumen Missing.
22/04/2023	12:47:22	2023-0422-124722-847-CH1	KP11.296- Field Joint - Bitumen Missing.
22/04/2023	12:48:12	2023-0422-124812-535-CH1	KP11.454- Field Joint - Bitumen Missing.
22/04/2023	12:49:32	2023-0422-124932-636-CH1	KP11.474- Anode Assessment - 25-50% Wasted.

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DATE	TIME	PHOTO FILE NAME	DESCRIPTION
22/04/2023	13:28:26	2023-0422-132826-808-CH1	KP12.035- Field Joint - Bitumen Missing.
22/04/2023	13:29:05	2023-0422-132905-338-CH1	KP12.049- Field Joint - Bitumen Missing.
22/04/2023	13:29:55	2023-0422-132955-024-CH1	KP12.062- Debris - Fishing Gear.
22/04/2023	13:30:34	2023-0422-133034-574-CH1	KP12.074- Field Joint - Bitumen Missing.
22/04/2023	13:31:14	2023-0422-133114-113-CH1	KP12.085- Field Joint - Bitumen Missing.
22/04/2023	13:31:37	2023-0422-133137-434-CH1	KP12.092- Anode Assessment - 25-50% Wasted.
22/04/2023	13:31:54	2023-0422-133154-674-CH1	KP12.095- Debris - Fish Trap. Sitting on top of pipeline
22/04/2023	13:33:34	2023-0422-133334-043-CH1	KP12.110- Field Joint - Bitumen Missing.
22/04/2023	13:34:17	2023-0422-133417-644-CH1	KP12.123- Field Joint - Bitumen Missing.
22/04/2023	13:35:06	2023-0422-133506-315-CH1	KP12.134- Field Joint - Bitumen Missing.
22/04/2023	13:35:50	2023-0422-133550-930-CH1	KP12.147- Field Joint - Bitumen Missing.
22/04/2023	13:36:34	2023-0422-133634-531-CH1	KP12.159- Field Joint - Bitumen Missing.
22/04/2023	13:37:18	2023-0422-133718-132-CH1	KP12.172- Field Joint - Bitumen Missing.
22/04/2023	13:38:07	2023-0422-133807-817-CH1	KP12.185- Field Joint - Bitumen Missing.
22/04/2023	13:39:01	2023-0422-133901-566-CH1	KP12.197- Field Joint - Bitumen Missing.
22/04/2023	13:39:42	2023-0422-133942-115-CH1	KP12.206- Field Joint - Bitumen Missing.
22/04/2023	13:40:48	2023-0422-134048-024-CH1	KP12.215- Field Joint - Bitumen Missing.
22/04/2023	13:44:44	2023-0422-134444-281-CH1	KP12.234- Field Joint - Bitumen Missing.
22/04/2023	13:46:54	2023-0422-134654-070-CH1	KP12.270- Debris - Fishing Gear.
22/04/2023	13:47:51	2023-0422-134751-867-CH1	KP12.284- Field Joint - Bitumen Missing.
22/04/2023	13:49:20	2023-0422-134920-081-CH1	KP12.308- Field Joint - Bitumen Missing.
22/04/2023	13:50:07	2023-0422-135007-739-CH1	KP12.320- Field Joint - Bitumen Missing.
22/04/2023	13:51:19	2023-0422-135119-730-CH1	KP12.333- Field Joint - Bitumen Missing.
22/04/2023	13:52:08	2023-0422-135208-405-CH1	KP12.347- Field Joint - Bitumen Missing.
22/04/2023	13:52:27	2023-0422-135227-666-CH1	KP12.347- Field Joint - Bitumen Missing.
22/04/2023	13:53:24	2023-0422-135324-451-CH1	KP12.359- Field Joint - Bitumen Missing.
23/04/2023	11:45:34	2023-0423-114534-723-CH1	KP12.419- Field Joint - Bitumen Missing.
23/04/2023	11:46:36	2023-0423-114636-576-CH1	KP12.431- Field Joint - Bitumen Missing.
23/04/2023	11:47:12	2023-0423-114712-065-CH1	KP12.443- Field Joint - Bitumen Missing.
23/04/2023	11:47:46	2023-0423-114746-540-CH1	KP12.456- Field Joint - Bitumen Missing.



Visual Inspection

Date	13 th April 2023		OWA Group		Thailand		Report No	53-66001-27-VI-01	
Project No	53-66001		Dive/ROV Sys.		Falcon 12450		Dive No	Refer to dive log	
Client	Star Petroleum Refining and PTT Global Chemical						Vessel	Uniwise Rayong	
Project Name	PTTGC-SPRC SPM Diving Inspection and Maintenance - 48" Crude Import Pipeline Inspection								
Location	MAP TA PHUT SPM						Video Ref.	53-66001-27-VL-01	
NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT		
1	13	12:51:40	Feature	0.007	Feature - Flange	25.7	Start of Survey Section at PLEM to Pipeline flange connection		
2	13	12:54:29	Cathodic Protection	0.008	Cathodic Protection - CP Steel	26.9	PLEM side of flange connection CP(-)969mV		
3	13	12:56:08	Cathodic Protection	0.009	Cathodic Protection - CP Steel	26.9	Pipeline side of flange connection CP(-)966mV		
4	13	13:06:22	Debris	0.049	Debris - Netting	26.5			
5	13	13:08:23	Debris	0.049	Debris - Fish Trap	25.7			
6	13	13:10:41	Debris	0.059	Debris - Fish Trap	25.4	Net		
7	13	14:45:23	Debris	0.073	Debris - Netting	25.3			
8	13	14:47:02	Debris	0.078	Debris - Soft Debris	26.1			
9	13	15:00:02	Field Joint	0.112	Field Joint - Good Condition	26.1			
10	13	15:06:24	Debris	0.124	Debris - Netting	26.0			
11	13	15:09:49	Debris	0.137	Debris - Netting	25.5			
12	13	15:10:32	Debris	0.141	Debris - Other	25.9			
13	13	15:15:20	Debris	0.171	Debris - Netting	25.7			
14	13	15:16:43	Debris	0.180	Debris - Netting	25.9			
15	14	09:12:42	Debris	0.186	Debris - Fishing Gear	26.6			
16	15	12:22:18	Debris	0.188	Debris - Pipe	26.6			
17	15	12:24:17	Debris	0.191	Debris - Other	26.6	Basket		
18	15	12:26:52	Debris	0.206	Debris - Other	26.6			
19	15	12:28:01	Debris	0.210	Debris - Fishing Gear	26.6	Net		
20	15	12:32:25	Debris	0.246	Debris - Other	26.6			
21	15	12:34:21	Debris	0.256	Debris - Other	26.6			
22	15	12:36:58	Debris	0.271	Debris - Fishing Gear	26.6	Net		
23	15	12:37:53	Debris	0.274	Debris - Other	26.6			
24	15	12:39:04	Debris	0.277	Debris - Fishing Gear	26.6	Net		
25	15	13:42:28	Debris	0.279	Debris - Fish Trap	26.1			
26	15	13:49:10	Debris	0.280	Debris - Fish Trap	25.3			
27	15	13:50:10	Debris	0.283	Debris - Fish Trap	25.3			
28	15	13:51:15	Debris	0.287	Debris - Fish Trap	25.4			
29	15	13:52:43	Field Joint	0.296	Field Joint - Bitumen Missing	25.3			
30	15	13:54:48	Debris	0.305	Debris - Fishing Gear	25.4			
31	15	13:56:17	Damage	0.309	Field Joint - Bitumen Missing	25.4			
32	15	13:57:44	Damage	0.321	Field Joint - Bitumen Missing	25.4			
33	15	13:59:12	Damage	0.334	Field Joint - Bitumen Missing	25.4			



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
34	15	14:00:34	Debris	0.345	Debris - Fishing Gear	25.4	
35	15	14:03:11	Damage	0.346	Field Joint - Bitumen Missing	25.4	
36	15	14:03:49	Debris	0.348	Debris - Fishing Gear	25.4	
37	15	14:05:09	Debris	0.353	Debris - Fishing Gear	25.4	
38	15	14:09:06	Anode Assessment	0.365	Anode Assessment - 25-50% Wasted	25.3	
39	15	14:13:09	Debris	0.401	Debris - Soft Rope	25.3	
40	15	14:15:01	Damage	0.422	Field Joint - Bitumen Missing	25.2	
41	15	14:18:57	Debris	0.458	Debris - Fishing Gear	25.2	
42	15	14:20:01	Debris	0.461	Debris - Debris Field	25.2	
43	15	15:23:23	Debris	0.496	Debris - Fishing Gear	25.2	
44	15	15:23:54	Damage	0.498	Field Joint - Bitumen Missing	25.1	
45	15	15:26:52	Damage	0.523	Field Joint - Bitumen Missing	25.0	
46	15	15:28:06	Damage	0.536	Field Joint - Bitumen Missing	25.1	
47	15	15:29:31	Damage	0.549	Field Joint - Bitumen Missing	25.1	
48	15	15:30:53	Debris	0.559	Debris - Fishing Gear	25.0	
49	15	15:31:35	Damage	0.561	Field Joint - Bitumen Missing	25.1	
50	15	15:33:18	Damage	0.574	Field Joint - Bitumen Missing	25.1	
51	15	15:37:48	Field Joint	0.600	Field Joint - Bitumen Missing	25.2	
52	15	15:39:06	Damage	0.613	Field Joint - Bitumen Missing	25.0	
53	15	15:41:41	Damage	0.618	Field Joint - Bitumen Missing	25.3	
54	15	15:42:40	Damage	0.625	Field Joint - Bitumen Missing	25.0	
55	15	15:44:08	Damage	0.638	Field Joint - Bitumen Missing	25.0	
56	17	10:17:11	Damage	0.652	Field Joint - Bitumen Missing	26.1	
57	17	10:18:16	Debris	0.655	Debris - Fishing Gear	26.2	Net
58	17	10:19:09	Debris	0.663	Debris - Fishing Gear	26.1	Net
59	17	10:20:33	Debris	0.672	Debris - Fishing Gear	26.2	Net
60	17	10:21:28	Debris	0.676	Debris - Fishing Gear	26.2	Net
61	17	10:22:43	Damage	0.690	Field Joint - Bitumen Missing	26.2	
62	17	10:23:43	Debris	0.702	Debris - Fishing Gear	26.2	
63	17	10:24:32	Debris	0.709	Debris - Fishing Gear	26.2	
64	17	10:25:06	Debris	0.712	Debris - Fishing Gear	26.2	
65	17	10:25:44	Debris	0.718	Debris - Fishing Gear	26.2	
66	17	10:26:15	Debris	0.721	Debris - Fishing Gear	26.2	
67	17	10:27:40	Damage	0.728	Field Joint - Bitumen Missing	26.1	
68	17	10:28:24	Debris	0.731	Debris - Fishing Gear	26.1	
69	17	10:30:30	Damage	0.766	Field Joint - Bitumen Missing	26.1	
70	17	10:31:17	Debris	0.775	Debris - Fishing Gear	26.1	
71	17	10:31:44	Damage	0.779	Field Joint - Bitumen Missing	26.1	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
72	17	10:35:05	Damage	0.817	Field Joint - Bitumen Missing	26.1	
73	17	10:36:29	Field Joint	0.830	Field Joint - Bitumen Missing	26.1	
74	17	10:37:21	Debris	0.837	Debris - Fishing Gear	26.1	
75	17	10:38:11	Damage	0.842	Field Joint - Bitumen Missing	26.2	
76	17	10:39:42	Damage	0.856	Field Joint - Bitumen Missing	26.2	
77	17	10:58:41	Field Joint	0.869	Field Joint - Bitumen Missing	26.1	
78	17	10:58:41	Debris	0.869	Debris - Netting	26.1	
79	17	11:00:08	Damage	0.881	Field Joint - Bitumen Missing	26.2	
80	17	11:15:10	Damage	0.893	Field Joint - Bitumen Missing	26.2	
81	17	11:16:11	Damage	0.906	Field Joint - Bitumen Missing	26.2	
82	17	11:17:13	Damage	0.919	Field Joint - Bitumen Missing	26.2	
83	17	11:18:54	Damage	0.946	Field Joint - Bitumen Missing	26.1	
84	17	11:19:58	Damage	0.958	Field Joint - Bitumen Missing	26.2	
85	17	11:21:03	Damage	0.970	Field Joint - Bitumen Missing	26.0	
86	17	11:22:01	Field Joint	0.983	Field Joint - Bitumen Missing	26.1	
87	17	11:23:05	Damage	0.995	Field Joint - Bitumen Missing	26.0	
88	17	11:24:09	Damage	1.007	Field Joint - Bitumen Missing	26.0	
89	17	11:25:14	Damage	1.021	Field Joint - Bitumen Missing	25.9	
90	17	11:26:10	Damage	1.033	Field Joint - Bitumen Missing	25.9	
91	17	11:26:57	Damage	1.045	Field Joint - Bitumen Missing	25.9	
92	17	11:27:51	Damage	1.057	Field Joint - Bitumen Missing	25.9	
93	17	11:28:52	Damage	1.070	Field Joint - Bitumen Missing	25.9	
94	17	11:29:39	Damage	1.082	Field Joint - Bitumen Missing	25.8	
95	17	11:30:41	Damage	1.098	Field Joint - Bitumen Missing	25.9	
96	17	11:31:35	Damage	1.108	Field Joint - Bitumen Missing	25.9	
97	17	11:32:27	Damage	1.121	Field Joint - Bitumen Missing	25.9	
98	17	11:33:41	Damage	1.133	Field Joint - Bitumen Missing	25.9	
99	17	11:34:42	Damage	1.146	Field Joint - Bitumen Missing	25.8	
100	17	11:35:34	Damage	1.158	Field Joint - Bitumen Missing	25.8	
101	17	11:37:05	Damage	1.171	Field Joint - Bitumen Missing	25.8	
102	17	11:37:59	Damage	1.184	Field Joint - Bitumen Missing	25.7	
103	17	11:39:14	Damage	1.197	Field Joint - Bitumen Missing	25.7	
104	17	11:40:07	Damage	1.209	Field Joint - Bitumen Missing	25.7	
105	17	11:41:03	Damage	1.222	Field Joint - Bitumen Missing	25.7	
106	17	11:41:38	Debris	1.228	Debris - Fishing Gear	25.7	
107	17	11:42:24	Damage	1.234	Field Joint - Bitumen Missing	25.7	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
108	17	11:43:27	Damage	1.247	Field Joint - Bitumen Missing	25.6	
109	17	11:44:33	Debris	1.256	Debris - Soft Debris	25.6	
110	17	11:45:35	Damage	1.272	Field Joint - Bitumen Missing	25.7	
111	17	11:46:27	Debris	1.283	Debris - Fishing Gear	25.7	
112	17	11:47:26	Damage	1.298	Field Joint - Bitumen Missing	25.8	
113	17	11:48:51	Damage	1.311	Field Joint - Bitumen Missing	25.8	
114	17	11:49:35	Damage	1.323	Field Joint - Bitumen Missing	25.8	
115	17	11:50:20	Damage	1.334	Field Joint - Bitumen Missing	25.8	
116	17	11:51:15	Damage	1.348	Field Joint - Bitumen Missing	25.7	
117	17	11:51:45	Debris	1.351	Debris - Fishing Gear	25.7	
118	17	11:52:18	Damage	1.360	Field Joint - Bitumen Missing	25.7	
119	17	11:53:01	Debris	1.369	Debris - Fishing Gear	25.7	
120	17	11:54:55	Damage	1.374	Field Joint - Bitumen Missing	25.8	
121	17	11:56:23	Damage	1.385	Field Joint - Bitumen Missing	25.8	
122	17	11:57:30	Damage	1.399	Field Joint - Bitumen Missing	25.8	
123	17	11:58:24	Damage	1.411	Field Joint - Bitumen Missing	25.8	
124	17	11:59:15	Damage	1.424	Field Joint - Bitumen Missing	25.8	
125	17	12:00:10	Damage	1.438	Field Joint - Bitumen Missing	25.8	
126	17	12:01:14	Debris	1.450	Debris - Fishing Gear	25.8	
127	17	12:02:01	Damage	1.462	Field Joint - Bitumen Missing	25.8	
128	17	12:02:34	Debris	1.469	Debris - Fishing Gear	25.8	
129	17	12:03:07	Damage	1.476	Field Joint - Bitumen Missing	25.9	
130	17	12:03:47	Damage	1.488	Field Joint - Bitumen Missing	25.9	
131	17	12:04:29	Damage	1.500	Field Joint - Bitumen Missing	25.9	
132	17	13:54:27	Damage	1.525	Field Joint - Bitumen Missing	25.6	
133	17	13:55:27	Damage	1.538	Field Joint - Bitumen Missing	25.6	
134	17	13:56:29	Damage	1.550	Field Joint - Bitumen Missing	25.7	
135	17	13:57:34	Damage	1.562	Field Joint - Bitumen Missing	25.6	
136	17	13:58:21	Debris	1.569	Debris - Fishing Gear	26.0	
137	17	14:15:40	Field Joint	1.601	Field Joint - Bitumen Missing	25.6	
138	17	14:16:46	Field Joint	1.614	Field Joint - Bitumen Missing	25.6	
139	17	14:20:42	Debris	1.636	Debris - Soft Debris	25.6	
140	17	14:22:34	Debris	1.649	Debris - Netting	25.5	
141	17	14:41:57	Debris	1.673	Debris - Fishing Gear	25.5	
142	17	14:43:19	Debris	1.692	Debris - Soft Rope	25.4	
143	17	14:44:35	Debris	1.704	Debris - Soft Rope	25.3	
144	17	14:45:45	Damage	1.715	Field Joint - Bitumen Missing	25.3	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
145	17	14:48:20	Damage	1.754	Field Joint - Bitumen Missing	25.0	
146	17	14:50:16	Damage	1.779	Field Joint - Bitumen Missing	24.6	
147	17	14:51:26	Damage	1.791	Field Joint - Bitumen Missing	24.3	
148	17	14:53:30	Damage	1.817	Field Joint - Bitumen Missing	24.0	
149	17	14:56:33	Damage	1.855	Field Joint - Bitumen Missing	23.7	
150	17	15:00:55	Damage	1.893	Field Joint - Bitumen Missing	23.8	
151	17	15:19:44	Damage	1.918	Field Joint - Bitumen Missing	23.8	
152	17	15:20:44	Damage	1.931	Field Joint - Bitumen Missing	23.7	
153	17	15:21:56	Damage	1.944	Field Joint - Bitumen Missing	23.9	
154	17	15:23:16	Damage	1.957	Field Joint - Bitumen Missing	23.8	
155	17	15:39:11	Damage	1.970	Field Joint - Bitumen Missing	23.9	
156	17	15:40:56	Damage	1.994	Field Joint - Bitumen Missing	23.7	
157	17	15:42:06	Damage	2.008	Field Joint - Bitumen Missing	23.7	
158	17	15:43:20	Damage	2.020	Field Joint - Bitumen Missing	23.8	
159	17	15:44:28	Damage	2.033	Field Joint - Bitumen Missing	23.7	
160	17	15:45:43	Damage	2.045	Field Joint - Bitumen Missing	23.8	
161	17	15:50:30	Damage	2.071	Field Joint - Bitumen Missing	23.8	
162	17	15:51:29	Damage	2.084	Field Joint - Bitumen Missing	23.8	
163	17	15:52:25	Damage	2.097	Field Joint - Bitumen Missing	23.8	
164	17	15:53:19	Damage	2.110	Field Joint - Bitumen Missing	23.9	
165	17	15:54:47	Damage	2.123	Field Joint - Bitumen Missing	23.8	
166	17	15:55:44	Damage	2.135	Field Joint - Bitumen Missing	23.8	
167	17	15:56:33	Anode Assessment	2.140	Anode Assessment - 25-50% Wasted	23.8	
168	17	15:57:29	Damage	2.148	Field Joint - Bitumen Missing	23.9	
169	17	15:58:22	Damage	2.160	Field Joint - Bitumen Missing	23.8	
170	17	15:59:07	Debris	2.173	Debris - Fishing Gear	23.7	
171	17	16:02:07	Damage	2.186	Field Joint - Bitumen Missing	24.1	
172	18	08:29:41	Damage	2.212	Field Joint - Bitumen Missing	23.9	
173	18	08:33:41	Damage	2.262	Field Joint - Bitumen Missing	24.0	
174	18	08:34:20	Anode Assessment	2.268	Anode Assessment - 25-50% Wasted	24.0	
175	18	08:35:25	Debris	2.272	Debris - Soft Rope	23.9	
176	18	08:38:57	Damage	2.326	Field Joint - Bitumen Missing	23.7	
177	18	08:41:26	Damage	2.351	Field Joint - Bitumen Missing	23.7	
178	18	08:42:40	Damage	2.364	Field Joint - Bitumen Missing	23.7	
179	18	08:44:14	Damage	2.376	Field Joint - Bitumen Missing	23.7	
180	18	08:45:22	Damage	2.388	Field Joint - Bitumen Missing	23.7	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
218	18	10:44:43	Damage	2.908	Field Joint - Bitumen Missing	23.4	
219	18	10:45:39	Damage	2.921	Field Joint - Bitumen Missing	23.5	
220	18	10:46:25	Damage	2.934	Field Joint - Bitumen Missing	23.5	
221	18	10:47:14	Damage	2.947	Field Joint - Bitumen Missing	23.5	
222	18	10:48:04	Damage	2.959	Field Joint - Bitumen Missing	23.4	
223	18	10:48:49	Damage	2.971	Field Joint - Bitumen Missing	23.3	
224	18	10:50:19	Damage	2.997	Field Joint - Bitumen Missing	23.2	
225	18	10:51:06	Damage	3.010	Field Joint - Bitumen Missing	23.2	
226	18	10:51:54	Damage	3.023	Field Joint - Bitumen Missing	23.3	
227	18	10:52:39	Anode Assessment	3.030	Anode Assessment - 25-50% Wasted	23.2	
228	18	10:57:41	Damage	3.035	Field Joint - Bitumen Missing	23.3	
229	18	10:58:31	Damage	3.047	Field Joint - Bitumen Missing	23.1	
230	18	10:59:16	Damage	3.060	Field Joint - Bitumen Missing	23.1	
231	18	11:01:37	Damage	3.100	Field Joint - Bitumen Missing	23.0	
232	18	11:02:25	Damage	3.112	Field Joint - Bitumen Missing	23.0	
233	18	11:03:45	Debris	3.131	Debris - Fishing Gear	22.9	
234	18	11:04:32	Damage	3.138	Field Joint - Bitumen Missing	22.9	
235	18	11:05:29	Damage	3.150	Field Joint - Bitumen Missing	22.8	
236	18	11:06:11	Anode Assessment	3.157	Anode Assessment - 25-50% Wasted	22.8	
237	18	11:06:43	Damage	3.163	Field Joint - Bitumen Missing	22.9	
238	18	11:07:42	Damage	3.176	Field Joint - Bitumen Missing	22.7	
239	18	11:08:26	Damage	3.188	Field Joint - Bitumen Missing	22.7	
240	18	11:09:29	Damage	3.200	Field Joint - Bitumen Missing	22.7	
241	18	11:10:22	Damage	3.212	Field Joint - Bitumen Missing	22.7	
242	18	11:11:57	Damage	3.239	Field Joint - Bitumen Missing	22.8	
243	18	11:12:48	Damage	3.252	Field Joint - Bitumen Missing	22.8	
244	18	11:13:45	Damage	3.264	Field Joint - Bitumen Missing	22.8	
245	18	11:14:35	Damage	3.276	Field Joint - Bitumen Missing	22.8	
246	18	11:15:19	Anode Assessment	3.282	Anode Assessment - 25-50% Wasted	22.7	CP(-)967mV
247	18	11:30:25	Damage	3.288	Field Joint - Bitumen Missing	22.3	
248	18	11:31:41	Damage	3.312	Field Joint - Bitumen Missing	22.1	
249	18	11:32:36	Damage	3.325	Field Joint - Bitumen Missing	22.0	
250	18	11:33:28	Damage	3.337	Field Joint - Bitumen Missing	21.9	
251	18	11:34:22	Damage	3.350	Field Joint - Bitumen Missing	21.9	
252	18	11:35:01	Damage	3.363	Field Joint - Bitumen Missing	21.7	
253	18	11:35:46	Damage	3.376	Field Joint - Bitumen Missing	21.7	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
181	18	08:46:35	Debris	2.393	Debris - Other	23.6	
182	18	09:02:45	Damage	2.402	Field Joint - Bitumen Missing	23.4	
183	18	09:03:42	Damage	2.414	Field Joint - Bitumen Missing	23.4	
184	18	09:05:00	Damage	2.427	Field Joint - Bitumen Missing	23.3	
185	18	09:06:03	Damage	2.439	Field Joint - Bitumen Missing	23.5	
186	18	09:07:04	Damage	2.452	Field Joint - Bitumen Missing	23.5	
187	18	09:07:55	Debris	2.463	Debris - Soft Rope	23.5	
188	18	09:08:57	Damage	2.478	Field Joint - Bitumen Missing	23.6	
189	18	09:09:49	Damage	2.490	Field Joint - Bitumen Missing	23.6	
190	18	09:10:34	Damage	2.502	Field Joint - Bitumen Missing	23.5	
191	18	09:11:23	Damage	2.515	Field Joint - Bitumen Missing	23.6	
192	18	09:35:47	Anode Assessment	2.521	Anode Assessment - 25-50% Wasted	23.5	
193	18	09:36:25	Damage	2.528	Field Joint - Bitumen Missing	23.5	
194	18	09:37:25	Debris	2.539	Debris - Fishing Gear	23.4	
195	18	09:38:36	Damage	2.553	Field Joint - Bitumen Missing	23.4	
196	18	09:40:15	Damage	2.579	Field Joint - Bitumen Missing	23.2	
197	18	09:41:51	Damage	2.605	Field Joint - Bitumen Missing	23.2	
198	18	09:42:50	Damage	2.618	Field Joint - Bitumen Missing	23.2	
199	18	09:44:21	Damage	2.643	Field Joint - Bitumen Missing	23.3	
200	18	09:45:05	Anode Assessment	2.649	Anode Assessment - 25-50% Wasted	23.2	
201	18	09:46:17	Damage	2.655	Field Joint - Bitumen Missing	23.3	
202	18	09:47:00	Damage	2.668	Field Joint - Bitumen Missing	23.2	
203	18	09:47:50	Damage	2.682	Field Joint - Bitumen Missing	23.3	
204	18	09:48:48	Damage	2.694	Field Joint - Bitumen Missing	23.4	
205	18	09:49:39	Damage	2.707	Field Joint - Bitumen Missing	23.4	
206	18	09:50:16	Damage	2.719	Field Joint - Bitumen Missing	23.3	
207	18	09:51:05	Damage	2.733	Field Joint - Bitumen Missing	23.1	
208	18	09:51:59	Damage	2.745	Field Joint - Bitumen Missing	23.2	
209	18	10:33:58	Damage	2.768	Field Joint - Bitumen Missing	23.2	
210	18	10:35:16	Anode Assessment	2.775	Anode Assessment - 25-50% Wasted	23.2	
211	18	10:36:34	Damage	2.794	Field Joint - Bitumen Missing	23.2	
212	18	10:38:04	Damage	2.821	Field Joint - Bitumen Missing	23.5	
213	18	10:38:53	Damage	2.833	Field Joint - Bitumen Missing	23.5	
214	18	10:39:45	Damage	2.846	Field Joint - Bitumen Missing	23.5	
215	18	10:40:20	Debris	2.848	Debris - Fishing Gear	23.5	
216	18	10:41:17	Damage	2.858	Field Joint - Bitumen Missing	23.5	
217	18	10:44:12	Anode Assessment	2.903	Anode Assessment - 25-50% Wasted	23.4	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
254	18	11:36:40	Debris	3.387	Debris - Fishing Gear	21.8	
255	18	11:37:36	Damage	3.401	Field Joint - Bitumen Missing	21.7	
256	18	11:39:39	Anode Assessment	3.410	Anode Assessment - 25-50% Wasted	21.6	
257	18	11:40:05	Damage	3.414	Field Joint - Bitumen Missing	21.7	
258	18	11:40:46	Damage	3.426	Field Joint - Bitumen Missing	21.6	
259	18	11:41:46	Debris	3.442	Debris - Fishing Gear	21.5	
260	18	11:42:37	Damage	3.452	Field Joint - Bitumen Missing	21.5	
261	18	11:45:27	Damage	3.502	Field Joint - Bitumen Missing	21.5	
262	18	11:46:13	Damage	3.516	Field Joint - Bitumen Missing	21.4	
263	18	11:46:55	Damage	3.527	Field Joint - Bitumen Missing	21.4	
264	18	11:50:18	Anode Assessment	3.533	Anode Assessment - 25-50% Wasted	21.3	
265	18	11:50:54	Damage	3.541	Field Joint - Bitumen Missing	21.4	
266	18	11:52:26	Damage	3.566	Field Joint - Bitumen Missing	21.3	
267	18	11:53:13	Damage	3.578	Field Joint - Bitumen Missing	21.3	
268	18	11:54:05	Damage	3.591	Field Joint - Bitumen Missing	21.3	
269	18	11:55:04	Damage	3.604	Field Joint - Bitumen Missing	21.4	
270	18	11:55:52	Damage	3.617	Field Joint - Bitumen Missing	21.3	
271	18	11:56:36	Damage	3.630	Field Joint - Bitumen Missing	21.2	
272	18	11:57:14	Damage	3.655	Field Joint - Bitumen Missing	21.4	
273	18	11:57:55	Damage	3.655	Field Joint - Bitumen Missing	21.3	
274	18	11:58:33	Anode Assessment	3.660	Anode Assessment - 25-50% Wasted	21.4	
275	18	11:59:12	Damage	3.667	Field Joint - Bitumen Missing	21.3	
276	18	12:00:05	Damage	3.680	Field Joint - Bitumen Missing	21.3	
277	18	13:27:05	Damage	3.690	Field Joint - Bitumen Missing	21.4	
278	18	13:28:06	Damage	3.703	Field Joint - Bitumen Missing	21.3	
279	18	13:29:05	Damage	3.716	Field Joint - Bitumen Missing	21.3	
280	18	13:30:00	Damage	3.729	Field Joint - Bitumen Missing	21.3	
281	18	13:30:52	Damage	3.742	Field Joint - Bitumen Missing	21.2	
282	18	13:31:48	Damage	3.754	Field Joint - Bitumen Missing	21.1	
283	18	13:32:41	Damage	3.766	Field Joint - Bitumen Missing	21.1	
284	18	13:34:31	Anode Assessment	3.785	Anode Assessment - 25-50% Wasted	21.2	
285	18	13:35:45	Damage	3.805	Field Joint - Bitumen Missing	21.2	
286	18	13:36:31	Debris	3.815	Debris - Fishing Gear	21.3	
287	18	13:37:41	Damage	3.831	Field Joint - Bitumen Missing	21.2	
288	18	13:39:32	Damage	3.869	Field Joint - Bitumen Missing	21.3	
289	18	13:40:21	Damage	3.882	Field Joint - Bitumen Missing	21.3	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
290	18	13:41:59	Damage	3.907	Field Joint - Bitumen Missing	21.3	
291	18	13:42:56	Anode Assessment	3.913	Anode Assessment - 25-50% Wasted	21.3	
292	18	13:43:39	Damage	3.920	Field Joint - Bitumen Missing	21.3	
293	18	13:45:11	Damage	3.945	Field Joint - Bitumen Missing	21.3	
294	18	13:46:51	Damage	3.971	Field Joint - Bitumen Missing	21.3	
295	18	13:47:41	Damage	3.983	Field Joint - Bitumen Missing	21.2	
296	18	13:48:36	Damage	3.996	Field Joint - Bitumen Missing	21.1	
297	18	13:49:36	Damage	4.008	Field Joint - Bitumen Missing	21.2	
298	18	13:50:39	Damage	4.020	Field Joint - Bitumen Missing	21.0	
299	18	13:52:48	Anode Assessment	4.039	Anode Assessment - 25-50% Wasted	21.4	
300	18	13:53:56	Damage	4.045	Field Joint - Bitumen Missing	21.0	
301	18	13:54:45	Damage	4.058	Field Joint - Bitumen Missing	21.0	
302	18	13:55:29	Damage	4.071	Field Joint - Bitumen Missing	20.8	
303	18	13:56:14	Damage	4.085	Field Joint - Bitumen Missing	20.9	
304	18	13:57:04	Damage	4.097	Field Joint - Bitumen Missing	20.9	
305	18	13:58:38	Damage	4.123	Field Joint - Bitumen Missing	20.8	
306	18	13:59:26	Damage	4.135	Field Joint - Bitumen Missing	20.8	
307	18	14:00:17	Damage	4.148	Field Joint - Bitumen Missing	20.7	
308	18	14:01:06	Damage	4.161	Field Joint - Bitumen Missing	20.8	
309	18	14:03:36	Anode Assessment	4.166	Anode Assessment - 25-50% Wasted	20.8	
310	18	14:04:21	Damage	4.173	Field Joint - Bitumen Missing	20.7	
311	18	14:06:13	Damage	4.198	Field Joint - Bitumen Missing	20.6	
312	18	14:07:02	Damage	4.211	Field Joint - Bitumen Missing	20.5	
313	18	14:08:23	Damage	4.235	Field Joint - Bitumen Missing	20.3	
314	18	14:09:25	Damage	4.248	Field Joint - Bitumen Missing	20.2	
315	18	14:10:12	Damage	4.261	Field Joint - Bitumen Missing	20.0	
316	18	14:11:39	Damage	4.287	Field Joint - Bitumen Missing	19.7	
317	18	14:19:40	Anode Assessment	4.293	Anode Assessment - 25-50% Wasted	19.6	
318	18	14:20:12	Damage	4.299	Field Joint - Bitumen Missing	19.6	
319	18	14:21:00	Damage	4.314	Field Joint - Bitumen Missing	19.6	
320	18	14:21:53	Damage	4.328	Field Joint - Bitumen Missing	19.7	
321	18	14:22:44	Damage	4.337	Field Joint - Bitumen Missing	19.7	
322	18	14:23:32	Damage	4.350	Field Joint - Bitumen Missing	19.7	
323	18	14:24:26	Damage	4.363	Field Joint - Bitumen Missing	19.8	
324	18	14:25:49	Damage	4.389	Field Joint - Bitumen Missing	19.7	
325	18	14:26:40	Damage	4.401	Field Joint - Bitumen Missing	19.6	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
363	18	15:16:50	Damage	4.797	Field Joint - Bitumen Missing	19.4	
364	18	15:17:43	Damage	4.810	Field Joint - Bitumen Missing	19.4	
365	18	15:18:20	Debris	4.817	Debris - Fishing Gear	19.4	
366	18	15:18:49	Damage	4.822	Field Joint - Bitumen Missing	19.3	
367	18	15:19:40	Damage	4.835	Field Joint - Bitumen Missing	19.4	
368	18	15:20:33	Damage	4.848	Field Joint - Bitumen Missing	19.3	
369	18	15:21:25	Damage	4.860	Field Joint - Bitumen Missing	19.4	
370	18	15:22:22	Damage	4.873	Field Joint - Bitumen Missing	19.3	
371	18	15:23:06	Damage	4.885	Field Joint - Bitumen Missing	19.3	
372	18	15:23:50	Damage	4.897	Field Joint - Bitumen Missing	19.3	
373	18	15:24:35	Damage	4.909	Field Joint - Bitumen Missing	19.3	
374	18	15:25:09	Debris	4.914	Debris - Fish Trap	19.3	Sitting on pipeline
375	18	15:28:39	Damage	4.935	Field Joint - Bitumen Missing	19.3	
376	18	15:29:25	Damage	4.949	Field Joint - Bitumen Missing	19.4	
377	18	15:30:18	Damage	4.959	Field Joint - Bitumen Missing	19.3	
378	18	15:31:03	Damage	4.971	Field Joint - Bitumen Missing	19.4	
379	18	15:32:35	Damage	4.997	Field Joint - Bitumen Missing	19.4	
380	18	15:34:30	Damage	5.020	Field Joint - Bitumen Missing	19.5	
381	18	15:35:31	Damage	5.032	Field Joint - Bitumen Missing	19.4	
382	18	15:36:28	Damage	5.045	Field Joint - Bitumen Missing	19.5	
383	18	15:37:20	Damage	5.057	Field Joint - Bitumen Missing	19.5	
384	18	15:39:50	Debris	5.094	Debris - Soft Rope	19.4	
385	18	15:41:24	Damage	5.119	Field Joint - Bitumen Missing	19.4	
386	18	15:43:27	Debris	5.152	Debris - Fishing Gear	19.5	
387	18	15:44:46	Damage	5.169	Field Joint - Bitumen Missing	19.5	
388	18	15:45:33	Damage	5.181	Field Joint - Bitumen Missing	19.6	
389	19	08:09:38	Damage	5.206	Field Joint - Bitumen Missing	19.5	
390	19	08:11:57	Damage	5.243	Field Joint - Bitumen Missing	19.4	
391	19	08:12:38	Damage	5.255	Field Joint - Bitumen Missing	19.4	
392	19	08:13:23	Damage	5.268	Field Joint - Bitumen Missing	19.4	
393	19	08:14:13	Damage	5.280	Field Joint - Bitumen Missing	19.3	
394	19	08:14:54	Anode Assessment	5.287	Anode Assessment - 25-50% Wasted	19.3	
395	19	08:15:25	Damage	5.292	Field Joint - Bitumen Missing	19.2	
396	19	08:16:34	Debris	5.304	Debris - Fishing Gear	19.2	
397	19	08:16:39	Damage	5.305	Field Joint - Bitumen Missing	19.3	
398	19	08:18:25	Damage	5.330	Field Joint - Bitumen Missing	19.3	
399	19	08:19:26	Damage	5.344	Field Joint - Bitumen Missing	19.2	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
326	18	14:27:29	Damage	4.414	Field Joint - Bitumen Missing	19.6	
327	18	14:28:09	Anode Assessment	4.420	Anode Assessment - 25-50% Wasted	19.6	
328	18	14:30:01	Damage	4.439	Field Joint - Bitumen Missing	19.5	
329	18	14:31:01	Debris	4.445	Debris - Fishing Gear	19.4	
330	18	14:31:56	Damage	4.451	Field Joint - Bitumen Missing	19.4	
331	18	14:33:26	Debris	4.474	Debris - Fishing Gear	19.5	
332	18	14:34:33	Damage	4.489	Field Joint - Bitumen Missing	19.7	
333	18	14:35:22	Damage	4.501	Field Joint - Bitumen Missing	19.7	
334	18	14:36:09	Damage	4.514	Field Joint - Bitumen Missing	19.7	
335	18	14:36:57	Damage	4.527	Field Joint - Bitumen Missing	19.7	
336	18	14:38:03	Damage	4.538	Field Joint - Bitumen Missing	19.8	
337	18	14:38:05	Damage	4.538	Field Joint - Bitumen Missing	19.8	Net
338	18	14:57:01	Anode Assessment	4.545	Anode Assessment - 25-50% Wasted	19.8	
339	18	14:57:38	Damage	4.551	Field Joint - Bitumen Missing	19.7	
340	18	14:58:20	Debris	4.559	Debris - Fishing Gear	19.8	
341	18	14:58:52	Damage	4.564	Field Joint - Bitumen Missing	19.8	
342	18	14:59:38	Damage	4.576	Field Joint - Bitumen Missing	19.7	
343	18	15:00:20	Damage	4.588	Field Joint - Bitumen Missing	19.7	
344	18	15:01:01	Damage	4.600	Field Joint - Bitumen Missing	19.7	
345	18	15:01:54	Damage	4.612	Field Joint - Bitumen Missing	19.7	
346	18	15:02:54	Damage	4.624	Field Joint - Bitumen Missing	19.7	
347	18	15:03:39	Damage	4.637	Field Joint - Bitumen Missing	19.7	
348	18	15:04:26	Damage	4.649	Field Joint - Bitumen Missing	19.6	
349	18	15:05:28	Damage	4.662	Field Joint - Bitumen Missing	19.6	
350	18	15:06:21	Anode Assessment	4.669	Anode Assessment - 25-50% Wasted	19.5	
351	18	15:07:00	Damage	4.674	Field Joint - Bitumen Missing	19.6	
352	18	15:07:51	Damage	4.686	Field Joint - Bitumen Missing	19.5	
353	18	15:08:38	Damage	4.697	Field Joint - Bitumen Missing	19.5	
354	18	15:09:26	Damage	4.710	Field Joint - Bitumen Missing	19.4	
355	18	15:10:44	Damage	4.722	Field Joint - Bitumen Missing	19.4	
356	18	15:11:35	Debris	4.733	Debris - Soft Rope	19.3	
357	18	15:11:59	Damage	4.735	Field Joint - Bitumen Missing	19.3	
358	18	15:12:45	Damage	4.748	Field Joint - Bitumen Missing	19.3	
359	18	15:13:31	Damage	4.760	Field Joint - Bitumen Missing	19.4	
360	18	15:14:24	Damage	4.773	Field Joint - Bitumen Missing	19.3	
361	18	15:15:11	Damage	4.785	Field Joint - Bitumen Missing	19.4	
362	18	15:15:44	Anode Assessment	4.793	Anode Assessment - 25-50% Wasted	19.4	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
400	19	08:22:36	Damage	5.380	Field Joint - Bitumen Missing	19.1	
401	19	08:23:33	Damage	5.380	Field Joint - Bitumen Missing	19.2	
402	19	08:39:26	Damage	5.392	Field Joint - Bitumen Missing	19.0	
403	19	08:40:09	Damage	5.405	Field Joint - Bitumen Missing	19.0	
404	19	08:42:16	Anode Assessment	5.413	Anode Assessment - 25-50% Wasted	19.3	
405	19	08:46:15	Damage	5.417	Field Joint - Bitumen Missing	18.9	
406	19	08:46:49	Damage	5.430	Field Joint - Bitumen Missing	19.0	
407	19	08:47:28	Damage	5.442	Field Joint - Bitumen Missing	19.0	
408	19	08:48:43	Damage	5.466	Field Joint - Bitumen Missing	18.9	
409	19	08:50:22	Damage	5.480	Field Joint - Bitumen Missing	18.9	
410	19	08:51:13	Damage	5.491	Field Joint - Bitumen Missing	18.9	
411	19	08:52:06	Damage	5.503	Field Joint - Bitumen Missing	18.7	
412	19	08:52:48	Damage	5.516	Field Joint - Bitumen Missing	18.8	
413	19	08:55:18	Anode Assessment	5.534	Anode Assessment - 25-50% Wasted	18.8	
414	19	08:56:19	Damage	5.552	Field Joint - Bitumen Missing	18.8	
415	19	08:56:58	Debris	5.559	Debris - Soft Rope	18.8	
416	19	08:57:50	Damage	5.565	Field Joint - Bitumen Missing	18.8	
417	19	08:58:42	Damage	5.578	Field Joint - Bitumen Missing	18.7	
418	19	08:59:24	Damage	5.589	Field Joint - Bitumen Missing	18.7	
419	19	09:00:02	Damage	5.603	Field Joint - Bitumen Missing	18.6	
420	19	09:00:36	Damage	5.615	Field Joint - Bitumen Missing	18.7	
421	19	09:01:11	Damage	5.627	Field Joint - Bitumen Missing	18.6	
422	19	09:01:50	Damage	5.639	Field Joint - Bitumen Missing	18.5	
423	19	09:02:28	Damage	5.652	Field Joint - Bitumen Missing	18.5	
424	19	09:14:19	Damage	5.664	Field Joint - Bitumen Missing	18.5	
425	19	09:15:08	Damage	5.677	Field Joint - Bitumen Missing	18.5	
426	19	09:15:50	Damage	5.689	Field Joint - Bitumen Missing	18.4	
427	19	09:16:29	Damage	5.702	Field Joint - Bitumen Missing	18.4	
428	19	09:17:06	Damage	5.714	Field Joint - Bitumen Missing	18.4	
429	19	09:17:42	Damage	5.726	Field Joint - Bitumen Missing	18.4	
430	19	09:18:20	Damage	5.738	Field Joint - Bitumen Missing	18.5	
431	19	09:19:44	Damage	5.750	Field Joint - Bitumen Missing	18.4	
432	19	09:20:25	Damage	5.762	Field Joint - Bitumen Missing	18.3	
433	19	09:21:02	Damage	5.775	Field Joint - Bitumen Missing	18.4	
434	19	09:22:02	Anode Assessment	5.781	Anode Assessment - 25-50% Wasted	18.3	
435	19	09:22:30	Damage	5.786	Field Joint - Bitumen Missing	18.4	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
436	19	09:23:03	Damage	5.799	Field Joint - Bitumen Missing	18.3	
437	19	09:23:37	Damage	5.811	Field Joint - Bitumen Missing	18.3	
438	19	09:24:12	Damage	5.823	Field Joint - Bitumen Missing	18.3	
439	19	09:25:49	Damage	5.848	Field Joint - Bitumen Missing	18.3	
440	19	09:27:05	Damage	5.873	Field Joint - Bitumen Missing	18.2	
441	19	09:27:42	Damage	5.884	Field Joint - Bitumen Missing	18.2	
442	19	09:28:57	Damage	5.910	Field Joint - Bitumen Missing	18.2	
443	19	09:30:20	Damage	5.946	Field Joint - Bitumen Missing	18.2	
444	19	09:31:01	Damage	5.958	Field Joint - Bitumen Missing	18.2	
445	19	09:31:39	Damage	5.974	Field Joint - Bitumen Missing	18.2	
446	19	09:32:15	Damage	5.983	Field Joint - Bitumen Missing	18.2	
447	19	09:32:46	Damage	5.996	Field Joint - Bitumen Missing	18.3	
448	19	09:33:40	Damage	6.009	Field Joint - Bitumen Missing	18.2	
449	19	09:34:25	Damage	6.021	Field Joint - Bitumen Missing	18.2	
450	19	09:35:22	Anode Assessment	6.033	Anode Assessment - 25-50% Wasted	18.3	
451	19	09:35:59	Damage	6.059	Field Joint - Bitumen Missing	18.2	
452	19	09:36:31	Damage	6.058	Field Joint - Bitumen Missing	18.0	
453	19	09:37:27	Debris	6.067	Debris - Other	18.1	Metal Rod
454	19	09:37:56	Damage	6.071	Field Joint - Bitumen Missing	18.2	
455	19	09:38:39	Damage	6.083	Field Joint - Bitumen Missing	18.1	
456	19	09:39:22	Damage	6.097	Field Joint - Bitumen Missing	18.1	
457	19	09:40:02	Debris	6.108	Debris - Fishing Gear	18.1	
458	19	09:40:54	Damage	6.121	Field Joint - Bitumen Missing	18.0	
459	19	09:41:32	Damage	6.133	Field Joint - Bitumen Missing	18.1	
460	19	09:42:08	Damage	6.145	Field Joint - Bitumen Missing	18.0	
461	19	09:42:38	Anode Assessment	6.152	Anode Assessment - 25-50% Wasted	18.0	
462	19	09:45:17	Damage	6.157	Field Joint - Bitumen Missing	17.9	
463	19	09:46:01	Damage	6.170	Field Joint - Bitumen Missing	18.0	
464	19	09:46:43	Damage	6.183	Field Joint - Bitumen Missing	17.9	
465	19	09:47:20	Damage	6.194	Field Joint - Bitumen Missing	17.9	
466	19	09:48:04	Damage	6.207	Field Joint - Bitumen Missing	17.9	
467	19	09:48:51	Damage	6.219	Field Joint - Bitumen Missing	17.9	
468	19	09:49:22	Debris	6.221	Debris - Soft Rope	18.0	
469	19	09:50:31	Damage	6.231	Field Joint - Bitumen Missing	17.9	
470	19	09:51:14	Damage	6.244	Field Joint - Bitumen Missing	17.8	
471	19	09:51:50	Damage	6.256	Field Joint - Bitumen Missing	17.8	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
472	19	09:52:28	Damage	6.269	Field Joint - Bitumen Missing	17.8	
473	19	09:52:57	Anode Assessment	6.276	Anode Assessment - 25-50% Wasted	17.8	
474	19	09:53:53	Damage	6.282	Field Joint - Bitumen Missing	17.7	
475	19	09:54:33	Damage	6.294	Field Joint - Bitumen Missing	17.8	
476	19	09:55:17	Damage	6.306	Field Joint - Bitumen Missing	17.7	
477	19	09:55:57	Damage	6.319	Field Joint - Bitumen Missing	17.7	
478	19	09:56:39	Damage	6.331	Field Joint - Bitumen Missing	17.7	
479	19	09:57:18	Damage	6.344	Field Joint - Bitumen Missing	17.7	
480	19	09:57:56	Damage	6.356	Field Joint - Bitumen Missing	17.7	
481	19	09:58:31	Damage	6.369	Field Joint - Bitumen Missing	17.6	
482	19	10:00:51	Anode Assessment	6.400	Anode Assessment - 25-50% Wasted	17.5	
483	19	10:01:19	Damage	6.405	Field Joint - Bitumen Missing	17.5	
484	19	10:01:55	Damage	6.418	Field Joint - Bitumen Missing	17.5	
485	19	10:02:59	Damage	6.442	Field Joint - Bitumen Missing	17.5	
486	19	10:03:36	Damage	6.455	Field Joint - Bitumen Missing	17.5	
487	19	10:04:07	Damage	6.467	Field Joint - Bitumen Missing	17.4	
488	19	10:05:14	Damage	6.492	Field Joint - Bitumen Missing	17.3	
489	19	10:07:09	Damage	6.526	Field Joint - Bitumen Missing	17.3	
490	19	10:08:16	Debris	6.533	Debris - Other	17.3	Canvas Sheet
491	19	10:09:42	Damage	6.554	Field Joint - Bitumen Missing	17.4	
492	19	10:10:17	Damage	6.568	Field Joint - Bitumen Missing	17.3	
493	19	10:26:09	Damage	6.578	Field Joint - Bitumen Missing	17.3	
494	19	10:26:48	Damage	6.590	Field Joint - Bitumen Missing	17.3	
495	19	10:27:24	Damage	6.602	Field Joint - Bitumen Missing	17.3	
496	19	10:28:01	Damage	6.614	Field Joint - Bitumen Missing	17.2	
497	19	10:28:40	Damage	6.626	Field Joint - Bitumen Missing	17.2	
498	19	10:29:18	Damage	6.639	Field Joint - Bitumen Missing	17.2	
499	19	10:29:52	Anode Assessment	6.645	Anode Assessment - 25-50% Wasted	17.2	
500	19	10:30:21	Damage	6.651	Field Joint - Bitumen Missing	17.2	
501	19	10:30:51	Damage	6.663	Field Joint - Bitumen Missing	17.2	
502	19	10:31:21	Damage	6.675	Field Joint - Bitumen Missing	17.1	
503	19	10:31:59	Damage	6.688	Field Joint - Bitumen Missing	17.1	
504	19	10:32:36	Damage	6.700	Field Joint - Bitumen Missing	17.0	
505	19	10:33:09	Damage	6.713	Field Joint - Bitumen Missing	17.1	
506	19	10:33:46	Damage	6.725	Field Joint - Bitumen Missing	16.9	
507	19	10:34:26	Damage	6.737	Field Joint - Bitumen Missing	17.0	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
508	19	10:35:00	Damage	6.750	Field Joint - Bitumen Missing	17.0	
509	19	10:35:33	Damage	6.762	Field Joint - Bitumen Missing	17.0	
510	19	10:36:10	Anode Assessment	6.769	Anode Assessment - 25-50% Wasted	17.0	
511	19	10:36:44	Damage	6.775	Field Joint - Bitumen Missing	16.9	
512	19	10:37:19	Damage	6.786	Field Joint - Bitumen Missing	17.0	
513	19	10:37:54	Damage	6.799	Field Joint - Bitumen Missing	17.0	
514	19	10:38:32	Damage	6.810	Field Joint - Bitumen Missing	16.9	
515	19	10:39:14	Damage	6.823	Field Joint - Bitumen Missing	17.0	
516	19	10:39:46	Damage	6.836	Field Joint - Bitumen Missing	16.9	
517	19	10:58:28	Damage	6.848	Field Joint - Bitumen Missing	17.0	
518	19	10:59:04	Debris	6.849	Debris - Fishing Gear	17.0	Net
519	19	11:00:41	Damage	6.873	Field Joint - Bitumen Missing	16.9	
520	19	11:01:15	Damage	6.885	Field Joint - Bitumen Missing	16.9	
521	19	11:01:45	Anode Assessment	6.893	Anode Assessment - 25-50% Wasted	16.9	
522	19	11:02:09	Damage	6.897	Field Joint - Bitumen Missing	16.8	
523	19	11:02:35	Debris	6.902	Debris - Soft Rope	16.9	
524	19	11:03:08	Damage	6.910	Field Joint - Bitumen Missing	16.8	
525	19	11:03:46	Damage	6.922	Field Joint - Bitumen Missing	16.8	
526	19	11:04:25	Damage	6.947	Field Joint - Bitumen Missing	16.8	
527	19	11:05:07	Damage	6.946	Field Joint - Bitumen Missing	16.9	
528	19	11:05:40	Debris	6.953	Debris - Soft Rope	16.8	
529	19	11:06:02	Damage	6.959	Field Joint - Bitumen Missing	16.9	
530	19	11:06:42	Damage	6.970	Field Joint - Bitumen Missing	16.9	
531	19	11:07:22	Damage	6.984	Field Joint - Bitumen Missing	16.9	
532	19	11:08:00	Damage	6.996	Field Joint - Bitumen Missing	16.9	
533	19	11:08:37	Damage	7.017	Field Joint - Bitumen Missing	16.7	
534	19	11:09:50	Anode Assessment	7.016	Anode Assessment - 25-50% Wasted	16.7	
535	19	11:10:12	Damage	7.021	Field Joint - Bitumen Missing	16.6	
536	19	11:10:55	Damage	7.033	Field Joint - Bitumen Missing	16.6	
537	19	11:11:43	Damage	7.045	Field Joint - Bitumen Missing	16.6	
538	19	11:12:25	Damage	7.058	Field Joint - Bitumen Missing	16.5	
539	19	11:13:05	Damage	7.070	Field Joint - Bitumen Missing	16.5	
540	19	11:13:44	Damage	7.082	Field Joint - Bitumen Missing	16.4	
541	19	11:14:18	Damage	7.091	Field Joint - Bitumen Missing	16.5	
542	19	11:14:40	Damage	7.095	Field Joint - Bitumen Missing	16.4	
543	19	11:15:27	Damage	7.108	Field Joint - Bitumen Missing	16.5	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
544	19	11:16:37	Damage	7.132	Field Joint - Bitumen Missing	16.5	
545	19	11:17:06	Anode Assessment	7.140	Anode Assessment - 25-50% Wasted	16.4	
546	19	11:34:07	Damage	7.144	Field Joint - Bitumen Missing	16.4	
547	19	11:35:07	Damage	7.157	Field Joint - Bitumen Missing	16.5	
548	19	11:35:39	Damage	7.177	Field Joint - Bitumen Missing	16.5	
549	19	11:36:20	Damage	7.181	Field Joint - Bitumen Missing	16.5	
550	19	11:37:00	Damage	7.196	Field Joint - Bitumen Missing	16.5	
551	19	11:37:44	Damage	7.207	Field Joint - Bitumen Missing	16.6	
552	19	11:38:23	Damage	7.219	Field Joint - Bitumen Missing	16.6	
553	19	13:14:15	Damage	7.241	Field Joint - Bitumen Missing	16.7	
554	19	13:14:53	Damage	7.244	Field Joint - Bitumen Missing	16.8	
555	19	13:15:35	Damage	7.257	Field Joint - Bitumen Missing	16.8	
556	19	13:16:03	Anode Assessment	7.264	Anode Assessment - 25-50% Wasted	16.8	
557	19	13:16:28	Damage	7.269	Field Joint - Bitumen Missing	16.8	
558	19	13:17:02	Damage	7.281	Field Joint - Bitumen Missing	16.8	
559	19	13:17:41	Damage	7.295	Field Joint - Bitumen Missing	16.8	
560	19	13:18:18	Damage	7.306	Field Joint - Bitumen Missing	16.8	
561	19	13:18:50	Damage	7.318	Field Joint - Bitumen Missing	16.8	
562	19	13:19:25	Damage	7.331	Field Joint - Bitumen Missing	16.8	
563	19	13:19:58	Damage	7.343	Field Joint - Bitumen Missing	16.7	
564	19	13:20:31	Damage	7.356	Field Joint - Bitumen Missing	16.8	
565	19	13:21:08	Damage	7.368	Field Joint - Bitumen Missing	16.7	
566	19	13:21:39	Damage	7.381	Field Joint - Bitumen Missing	16.7	
567	19	13:22:04	Anode Assessment	7.387	Anode Assessment - 25-50% Wasted	16.7	
568	19	13:22:30	Damage	7.393	Field Joint - Bitumen Missing	16.7	
569	19	13:23:05	Damage	7.405	Field Joint - Bitumen Missing	16.7	
570	19	13:24:16	Damage	7.430	Field Joint - Bitumen Missing	16.6	
571	19	13:24:54	Damage	7.442	Field Joint - Bitumen Missing	16.8	
572	19	13:25:34	Damage	7.454	Field Joint - Bitumen Missing	16.6	
573	19	13:26:22	Damage	7.466	Field Joint - Bitumen Missing	16.4	
574	19	13:27:07	Damage	7.479	Field Joint - Bitumen Missing	16.4	
575	19	13:27:45	Damage	7.491	Field Joint - Bitumen Missing	16.3	
576	19	13:28:23	Damage	7.504	Field Joint - Bitumen Missing	16.2	
577	19	13:28:52	Anode Assessment	7.511	Anode Assessment - 25-50% Wasted	16.2	
578	19	13:29:42	Damage	7.516	Field Joint - Bitumen Missing	16.2	
579	19	13:30:19	Damage	7.529	Field Joint - Bitumen Missing	16.1	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
580	19	13:31:00	Damage	7.541	Field Joint - Bitumen Missing	16.2	
581	19	13:31:39	Damage	7.554	Field Joint - Bitumen Missing	16.2	
582	19	13:32:18	Debris	7.562	Debris - Soft Rope	16.1	
583	19	13:32:41	Damage	7.567	Field Joint - Bitumen Missing	16.2	
584	19	13:33:21	Damage	7.578	Field Joint - Bitumen Missing	16.2	
585	19	13:34:00	Damage	7.591	Field Joint - Bitumen Missing	16.2	
586	19	13:34:37	Damage	7.604	Field Joint - Bitumen Missing	16.2	
587	19	13:35:14	Damage	7.616	Field Joint - Bitumen Missing	16.2	
588	19	13:35:56	Damage	7.629	Field Joint - Bitumen Missing	16.3	
589	19	13:36:32	Anode Assessment	7.636	Anode Assessment - 25-50% Wasted	16.2	
590	19	13:37:08	Damage	7.641	Field Joint - Bitumen Missing	16.2	
591	19	13:37:41	Damage	7.653	Field Joint - Bitumen Missing	16.2	
592	19	13:39:11	Damage	7.678	Field Joint - Bitumen Missing	16.4	
593	19	13:40:00	Damage	7.690	Field Joint - Bitumen Missing	16.4	
594	19	13:40:38	Damage	7.702	Field Joint - Bitumen Missing	16.4	
595	19	13:41:19	Damage	7.715	Field Joint - Bitumen Missing	16.4	
596	19	13:41:58	Damage	7.727	Field Joint - Bitumen Missing	16.4	
597	19	13:42:42	Damage	7.740	Field Joint - Bitumen Missing	16.4	
598	19	13:43:19	Debris	7.745	Debris - Soft Rope	16.4	
599	19	13:44:00	Damage	7.754	Field Joint - Bitumen Missing	16.5	
600	19	13:44:36	Anode Assessment	7.759	Anode Assessment - 25-50% Wasted	16.4	
601	19	13:49:23	Damage	7.764	Field Joint - Bitumen Missing	16.5	
602	19	13:50:04	Damage	7.777	Field Joint - Bitumen Missing	16.5	
603	19	13:50:41	Damage	7.788	Field Joint - Bitumen Missing	16.6	
604	19	13:51:17	Damage	7.801	Field Joint - Bitumen Missing	16.5	
605	19	13:51:53	Damage	7.813	Field Joint - Bitumen Missing	16.6	
606	19	13:52:24	Damage	7.826	Field Joint - Bitumen Missing	16.7	
607	19	14:07:16	Debris	7.835	Debris - Fishing Gear	16.7	
608	19	14:08:27	Damage	7.850	Field Joint - Bitumen Missing	16.8	
609	19	14:08:58	Debris	7.857	Debris - Fishing Gear	16.8	
610	19	14:09:57	Damage	7.876	Field Joint - Bitumen Missing	16.9	
611	19	14:10:26	Anode Assessment	7.882	Anode Assessment - 25-50% Wasted	16.9	
612	19	14:10:58	Damage	7.888	Field Joint - Bitumen Missing	16.9	
613	19	14:11:33	Damage	7.900	Field Joint - Bitumen Missing	17.0	
614	19	14:12:12	Damage	7.913	Field Joint - Bitumen Missing	17.0	
615	19	14:12:52	Damage	7.926	Field Joint - Bitumen Missing	17.0	
616	19	14:13:25	Damage	7.938	Field Joint - Bitumen Missing	17.0	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
617	19	14:13:58	Damage	7.950	Field Joint - Bitumen Missing	17.0	
618	19	14:14:29	Damage	7.962	Field Joint - Bitumen Missing	17.1	
619	19	14:15:03	Damage	7.975	Field Joint - Bitumen Missing	17.0	
620	19	14:15:37	Damage	7.987	Field Joint - Bitumen Missing	16.9	
621	19	14:16:10	Damage	8.000	Field Joint - Bitumen Missing	16.9	
622	19	14:17:42	Anode Assessment	8.008	Anode Assessment - 25-50% Wasted	16.8	
623	19	14:23:50	Damage	8.037	Field Joint - Bitumen Missing	16.8	
624	19	14:24:29	Damage	8.050	Field Joint - Bitumen Missing	16.8	
625	19	14:25:08	Damage	8.062	Field Joint - Bitumen Missing	16.9	
626	19	14:25:51	Damage	8.075	Field Joint - Bitumen Missing	17.0	
627	19	14:38:24	Damage	8.088	Field Joint - Bitumen Missing	16.9	
628	19	14:39:00	Damage	8.100	Field Joint - Bitumen Missing	16.9	
629	19	14:39:51	Damage	8.113	Field Joint - Bitumen Missing	17.0	
630	19	14:40:27	Damage	8.126	Field Joint - Bitumen Missing	17.0	
631	19	14:41:01	Anode Assessment	8.132	Anode Assessment - 25-50% Wasted	16.9	
632	19	14:41:48	Damage	8.137	Field Joint - Bitumen Missing	17.0	
633	19	14:42:31	Damage	8.150	Field Joint - Bitumen Missing	16.9	
634	19	14:43:12	Damage	8.162	Field Joint - Bitumen Missing	16.9	
635	19	14:43:47	Damage	8.174	Field Joint - Bitumen Missing	16.9	
636	19	14:44:12	Debris	8.175	Debris - Fishing Gear	17.0	
637	19	14:45:03	Damage	8.186	Field Joint - Bitumen Missing	16.9	
638	19	14:45:55	Damage	8.199	Field Joint - Bitumen Missing	16.9	
639	19	14:46:40	Damage	8.213	Field Joint - Bitumen Missing	17.1	
640	19	14:47:31	Damage	8.224	Field Joint - Bitumen Missing	17.1	
641	19	14:48:16	Debris	8.233	Debris - Soft Rope	17.1	
642	19	14:48:36	Damage	8.236	Field Joint - Bitumen Missing	17.0	
643	19	14:49:21	Damage	8.249	Field Joint - Bitumen Missing	17.0	
644	19	14:49:50	Debris	8.253	Debris - Fishing Gear	17.0	
645	19	14:50:15	Anode Assessment	8.258	Anode Assessment - 25-50% Wasted	17.0	
646	19	14:50:53	Damage	8.260	Field Joint - Bitumen Missing	17.0	
647	19	14:51:48	Damage	8.273	Field Joint - Bitumen Missing	17.0	
648	19	14:52:56	Damage	8.285	Field Joint - Bitumen Missing	17.1	
649	19	14:53:41	Damage	8.298	Field Joint - Bitumen Missing	17.0	
650	19	14:54:18	Damage	8.311	Field Joint - Bitumen Missing	17.0	
651	19	14:55:09	Damage	8.323	Field Joint - Bitumen Missing	17.0	
652	19	14:55:57	Damage	8.335	Field Joint - Bitumen Missing	17.3	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
653	19	14:56:33	Damage	8.348	Field Joint - Bitumen Missing	17.0	
654	19	14:57:23	Debris	8.354	Debris - Fishing Gear	17.0	
655	19	15:04:21	Damage	8.373	Field Joint - Bitumen Missing	16.9	
656	19	15:05:02	Anode Assessment	8.380	Anode Assessment - 25-50% Wasted	17.0	
657	19	15:05:37	Damage	8.385	Field Joint - Bitumen Missing	16.9	
658	19	15:06:22	Damage	8.397	Field Joint - Bitumen Missing	16.9	
659	19	15:07:03	Damage	8.410	Field Joint - Bitumen Missing	16.9	
660	19	15:07:51	Damage	8.422	Field Joint - Bitumen Missing	17.0	
661	19	15:08:36	Damage	8.435	Field Joint - Bitumen Missing	17.0	
662	19	15:09:14	Damage	8.447	Field Joint - Bitumen Missing	17.0	
663	19	15:10:14	Damage	8.461	Field Joint - Bitumen Missing	16.9	
664	19	15:11:07	Damage	8.472	Field Joint - Bitumen Missing	16.9	
665	19	15:11:52	Damage	8.484	Field Joint - Bitumen Missing	17.0	
666	19	15:12:29	Damage	8.497	Field Joint - Bitumen Missing	16.8	
667	19	15:16:44	Damage	8.508	Field Joint - Bitumen Missing	16.8	
668	19	15:17:25	Damage	8.521	Field Joint - Bitumen Missing	16.9	
669	19	15:18:20	Damage	8.545	Field Joint - Bitumen Missing	16.9	
670	19	15:19:20	Damage	8.547	Field Joint - Bitumen Missing	16.8	
671	19	15:20:02	Damage	8.559	Field Joint - Bitumen Missing	17.0	
672	19	15:20:58	Damage	8.571	Field Joint - Bitumen Missing	16.8	
673	19	15:21:48	Damage	8.585	Field Joint - Bitumen Missing	16.9	
674	19	15:22:31	Damage	8.609	Field Joint - Bitumen Missing	16.8	
675	19	15:23:13	Damage	8.609	Field Joint - Bitumen Missing	16.8	
676	19	15:23:40	Debris	8.609	Debris - Fishing Gear	16.9	
677	19	15:24:41	Damage	8.621	Field Joint - Bitumen Missing	16.8	
678	19	15:25:12	Anode Assessment	8.627	Anode Assessment - 25-50% Wasted	16.8	
679	19	15:25:49	Damage	8.633	Field Joint - Bitumen Missing	17.1	
680	19	15:26:28	Damage	8.645	Field Joint - Bitumen Missing	16.9	
681	19	15:29:19	Damage	8.657	Field Joint - Bitumen Missing	16.9	
682	19	15:30:15	Damage	8.670	Field Joint - Bitumen Missing	16.9	
683	19	15:30:56	Damage	8.682	Field Joint - Bitumen Missing	17.0	
684	19	15:31:40	Damage	8.695	Field Joint - Bitumen Missing	17.0	
685	19	15:32:24	Damage	8.707	Field Joint - Bitumen Missing	16.7	
686	19	15:33:00	Damage	8.719	Field Joint - Bitumen Missing	16.8	
687	19	15:33:52	Damage	8.731	Field Joint - Bitumen Missing	16.9	
688	19	15:34:36	Damage	8.742	Field Joint - Bitumen Missing	16.7	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
689	19	15:35:16	Anode Assessment	8.749	Anode Assessment - 25-50% Wasted	16.8	
690	19	15:35:55	Damage	8.754	Field Joint - Bitumen Missing	16.7	
691	19	16:07:46	Damage	8.854	Field Joint - Bitumen Missing	16.9	
692	19	16:08:32	Damage	8.865	Field Joint - Bitumen Missing	16.9	
693	19	16:08:55	Anode Assessment	8.871	Anode Assessment - 25-50% Wasted	16.9	
694	19	16:09:18	Damage	8.877	Field Joint - Bitumen Missing	16.9	
695	19	16:09:48	Damage	8.889	Field Joint - Bitumen Missing	17.0	
696	19	16:10:18	Damage	8.902	Field Joint - Bitumen Missing	17.0	
697	19	16:10:50	Damage	8.914	Field Joint - Bitumen Missing	17.0	
698	19	16:11:26	Damage	8.931	Field Joint - Bitumen Missing	17.2	
699	19	16:12:10	Damage	8.940	Field Joint - Bitumen Missing	17.2	
700	19	16:13:13	Damage	8.951	Field Joint - Bitumen Missing	17.3	
701	19	16:14:02	Damage	8.964	Field Joint - Bitumen Missing	17.2	
702	19	16:14:43	Damage	8.976	Field Joint - Bitumen Missing	17.2	
703	19	16:15:16	Damage	8.988	Field Joint - Bitumen Missing	17.2	
704	19	16:15:45	Anode Assessment	8.995	Anode Assessment - 25-50% Wasted	17.2	
705	19	16:16:06	Damage	9.001	Field Joint - Bitumen Missing	17.2	
706	19	16:16:57	Debris	9.010	Debris - Hard Debris	17.2	
707	19	16:19:27	Debris	9.036	Debris - Wire Rope	17.0	
708	22	09:12:43	Damage	9.064	Field Joint - Bitumen Missing	16.9	
709	22	09:13:49	Debris	9.073	Debris - Fishing Gear	16.9	
710	22	09:14:11	Damage	9.076	Field Joint - Bitumen Missing	16.9	
711	22	09:15:10	Damage	9.088	Field Joint - Bitumen Missing	16.9	
712	22	09:15:56	Damage	9.101	Field Joint - Bitumen Missing	16.9	
713	22	09:16:57	Damage	9.114	Field Joint - Bitumen Missing	16.9	
714	22	09:17:32	Anode Assessment	9.121	Anode Assessment - 25-50% Wasted	16.9	
715	22	09:18:16	Damage	9.125	Field Joint - Bitumen Missing	16.9	
716	22	09:19:06	Damage	9.138	Field Joint - Bitumen Missing	16.9	
717	22	09:20:03	Damage	9.150	Field Joint - Bitumen Missing	16.9	
718	22	09:20:57	Damage	9.162	Field Joint - Bitumen Missing	16.9	
719	22	09:21:42	Damage	9.175	Field Joint - Bitumen Missing	16.9	
720	22	09:22:27	Damage	9.187	Field Joint - Bitumen Missing	16.9	
721	22	09:23:14	Damage	9.199	Field Joint - Bitumen Missing	16.9	
722	22	09:23:40	Debris	9.204	Debris - Fishing Gear	16.9	
723	22	09:24:09	Damage	9.211	Field Joint - Bitumen Missing	16.9	
724	22	09:25:11	Damage	9.225	Field Joint - Bitumen Missing	16.9	
725	22	09:25:59	Damage	9.237	Field Joint - Bitumen Missing	16.9	



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NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
726	22	09:26:37	Anode Assessment	9.244	Anode Assessment - 25-50% Wasted	16.9	
727	22	09:27:17	Debris	9.247	Debris - Wire Rope	16.9	
728	22	09:27:40	Damage	9.250	Field Joint - Bitumen Missing	16.9	
729	22	09:28:20	Debris	9.255	Debris - Fishing Gear	16.9	
730	22	09:28:53	Damage	9.261	Field Joint - Bitumen Missing	16.9	
731	22	09:29:42	Damage	9.274	Field Joint - Bitumen Missing	16.9	
732	22	09:30:25	Damage	9.286	Field Joint - Bitumen Missing	16.9	
733	22	09:31:07	Damage	9.298	Field Joint - Bitumen Missing	16.9	
734	22	09:32:02	Damage	9.311	Field Joint - Bitumen Missing	16.9	
735	22	09:32:54	Damage	9.324	Field Joint - Bitumen Missing	16.9	
736	22	09:33:45	Damage	9.336	Field Joint - Bitumen Missing	16.9	
737	22	09:34:31	Damage	9.349	Field Joint - Bitumen Missing	16.9	
738	22	09:35:10	Damage	9.361	Field Joint - Bitumen Missing	16.9	
739	22	09:35:41	Anode Assessment	9.369	Anode Assessment - 25-50% Wasted	16.9	
740	22	09:36:07	Damage	9.374	Field Joint - Bitumen Missing	16.9	
741	22	09:36:46	Damage	9.386	Field Joint - Bitumen Missing	16.9	
742	22	09:37:28	Damage	9.398	Field Joint - Bitumen Missing	16.9	
743	22	09:38:13	Damage	9.410	Field Joint - Bitumen Missing	16.9	
744	22	09:38:50	Debris	9.417	Debris - Soft Rope	16.9	
745	22	09:39:10	Damage	9.423	Field Joint - Bitumen Missing	16.9	
746	22	09:39:50	Damage	9.435	Field Joint - Bitumen Missing	16.9	
747	22	09:40:40	Damage	9.448	Field Joint - Bitumen Missing	16.9	
748	22	09:41:22	Damage	9.460	Field Joint - Bitumen Missing	16.9	
749	22	09:42:05	Damage	9.472	Field Joint - Bitumen Missing	16.9	
750	22	09:42:50	Damage	9.484	Field Joint - Bitumen Missing	16.9	
751	22	09:43:17	Anode Assessment	9.491	Anode Assessment - 25-50% Wasted	16.9	
752	22	09:43:46	Damage	9.496	Field Joint - Bitumen Missing	16.9	
753	22	09:44:29	Damage	9.509	Field Joint - Bitumen Missing	16.9	
754	22	09:45:13	Damage	9.521	Field Joint - Bitumen Missing	16.9	
755	22	09:45:46	Damage	9.533	Field Joint - Bitumen Missing	16.9	
756	22	09:46:20	Damage	9.546	Field Joint - Bitumen Missing	16.9	
757	22	09:46:51	Damage	9.559	Field Joint - Bitumen Missing	16.9	
758	22	09:47:21	Damage	9.571	Field Joint - Bitumen Missing	16.9	
759	22	09:47:42	Debris	9.572	Debris - Soft Rope	16.9	
760	22	09:48:20	Damage	9.583	Field Joint - Bitumen Missing	16.9	
761	22	09:48:52	Damage	9.596	Field Joint - Bitumen Missing	16.9	
762	22	09:49:33	Damage	9.609	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
763	22	09:50:38	Damage	9.633	Field Joint - Bitumen Missing	16.9	
764	22	09:51:14	Damage	9.646	Field Joint - Bitumen Missing	16.9	
765	22	09:51:46	Damage	9.658	Field Joint - Bitumen Missing	16.9	
766	22	09:52:38	Debris	9.674	Debris - Fishing Gear	16.9	
767	22	09:53:17	Debris	9.682	Debris - Fishing Gear	16.9	
768	22	09:53:58	Damage	9.695	Field Joint - Bitumen Missing	16.9	
769	22	09:54:36	Damage	9.708	Field Joint - Bitumen Missing	16.9	
770	22	09:55:15	Damage	9.720	Field Joint - Bitumen Missing	16.9	
771	22	09:55:59	Debris	9.732	Debris - Fishing Gear	16.9	
772	22	09:56:18	Debris	9.736	Debris - Fishing Gear	16.9	
773	22	09:56:54	Damage	9.744	Field Joint - Bitumen Missing	16.9	
774	22	09:57:12	Debris	9.749	Debris - Fishing Gear	16.9	
775	22	09:57:37	Damage	9.757	Field Joint - Bitumen Missing	16.9	
776	22	09:58:51	Damage	9.782	Field Joint - Bitumen Missing	16.9	
777	22	09:59:29	Damage	9.794	Field Joint - Bitumen Missing	16.9	
778	22	10:00:07	Damage	9.806	Field Joint - Bitumen Missing	16.9	
779	22	10:00:47	Damage	9.818	Field Joint - Bitumen Missing	16.9	
780	22	10:01:25	Damage	9.831	Field Joint - Bitumen Missing	16.9	
781	22	10:02:01	Damage	9.844	Field Joint - Bitumen Missing	16.9	
782	22	10:02:36	Damage	9.856	Field Joint - Bitumen Missing	16.9	
783	22	10:03:13	Anode Assessment	9.863	Anode Assessment - 25-50% Wasted	16.9	
784	22	10:04:06	Damage	9.881	Field Joint - Bitumen Missing	16.9	
785	22	10:04:37	Damage	9.893	Field Joint - Bitumen Missing	16.9	
786	22	10:05:09	Debris	9.902	Debris - Fishing Gear	16.9	
787	22	10:05:23	Damage	9.906	Field Joint - Bitumen Missing	16.9	
788	22	10:05:54	Damage	9.917	Field Joint - Bitumen Missing	16.9	
789	22	10:06:26	Damage	9.930	Field Joint - Bitumen Missing	16.9	
790	22	10:06:58	Damage	9.942	Field Joint - Bitumen Missing	16.9	
791	22	10:07:37	Damage	9.955	Field Joint - Bitumen Missing	16.9	
792	22	10:08:22	Debris	9.966	Debris - Soft Rope	16.9	
793	22	10:08:30	Damage	9.968	Field Joint - Bitumen Missing	16.9	
794	22	10:09:05	Damage	9.980	Field Joint - Bitumen Missing	16.9	
795	22	10:09:28	Anode Assessment	9.987	Anode Assessment - 25-50% Wasted	16.9	
796	22	10:09:50	Damage	9.992	Field Joint - Bitumen Missing	16.9	
797	22	10:10:35	Damage	10.004	Field Joint - Bitumen Missing	16.9	
798	22	10:11:22	Damage	10.017	Field Joint - Bitumen Missing	16.9	
799	22	10:12:05	Damage	10.029	Field Joint - Bitumen Missing	16.9	



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NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
800	22	10:12:45	Damage	10.041	Field Joint - Bitumen Missing	16.9	
801	22	10:13:55	Damage	10.066	Field Joint - Bitumen Missing	16.9	
802	22	10:14:28	Damage	10.079	Field Joint - Bitumen Missing	16.9	
803	22	10:15:07	Damage	10.091	Field Joint - Bitumen Missing	16.9	
804	22	10:15:45	Damage	10.104	Field Joint - Bitumen Missing	16.9	
805	22	10:16:16	Anode Assessment	10.111	Anode Assessment - 25-50% Wasted	16.9	
806	22	10:17:00	Damage	10.116	Field Joint - Bitumen Missing	16.9	
807	22	10:17:35	Damage	10.129	Field Joint - Bitumen Missing	16.9	
808	22	10:18:24	Damage	10.142	Field Joint - Bitumen Missing	16.9	
809	22	10:19:44	Damage	10.166	Field Joint - Bitumen Missing	16.9	
810	22	10:20:32	Damage	10.179	Field Joint - Bitumen Missing	16.9	
811	22	10:21:17	Damage	10.192	Field Joint - Bitumen Missing	16.9	
812	22	10:21:57	Damage	10.204	Field Joint - Bitumen Missing	16.9	
813	22	10:22:39	Damage	10.217	Field Joint - Bitumen Missing	16.9	
814	22	10:23:20	Damage	10.229	Field Joint - Bitumen Missing	16.9	
815	22	10:23:49	Anode Assessment	10.236	Anode Assessment - 25-50% Wasted	16.9	
816	22	10:24:40	Damage	10.241	Field Joint - Bitumen Missing	16.9	
817	22	10:25:21	Damage	10.254	Field Joint - Bitumen Missing	16.9	
818	22	10:26:03	Damage	10.270	Field Joint - Bitumen Missing	16.9	
819	22	10:26:56	Debris	10.273	Debris - Fishing Gear	16.9	
820	22	10:28:21	Damage	10.279	Field Joint - Bitumen Missing	16.9	
821	22	10:29:11	Damage	10.291	Field Joint - Bitumen Missing	16.9	
822	22	10:29:55	Damage	10.303	Field Joint - Bitumen Missing	16.9	
823	22	10:30:40	Damage	10.316	Field Joint - Bitumen Missing	16.9	
824	22	10:31:05	Debris	10.319	Debris - Fishing Gear	16.9	
825	22	10:31:42	Damage	10.329	Field Joint - Bitumen Missing	16.9	
826	22	10:32:24	Damage	10.340	Field Joint - Bitumen Missing	16.9	
827	22	10:33:12	Damage	10.353	Field Joint - Bitumen Missing	16.9	
828	22	10:33:43	Anode Assessment	10.360	Anode Assessment - 25-50% Wasted	16.9	
829	22	10:34:08	Damage	10.365	Field Joint - Bitumen Missing	16.9	
830	22	10:34:46	Damage	10.378	Field Joint - Bitumen Missing	16.9	
831	22	10:35:28	Damage	10.390	Field Joint - Bitumen Missing	16.9	
832	22	10:36:07	Damage	10.403	Field Joint - Bitumen Missing	16.9	
833	22	10:37:13	Damage	10.427	Field Joint - Bitumen Missing	16.9	
834	22	10:37:43	Damage	10.439	Field Joint - Bitumen Missing	16.9	
835	22	10:38:15	Damage	10.452	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
836	22	10:38:46	Damage	10.465	Field Joint - Bitumen Missing	16.9	
837	22	10:39:17	Damage	10.476	Field Joint - Bitumen Missing	16.9	
838	22	10:39:45	Anode Assessment	10.484	Anode Assessment - 25-50% Wasted	16.9	
839	22	10:40:02	Damage	10.489	Field Joint - Bitumen Missing	16.9	
840	22	10:40:33	Damage	10.502	Field Joint - Bitumen Missing	16.9	
841	22	10:41:09	Damage	10.514	Field Joint - Bitumen Missing	16.9	
842	22	10:41:46	Damage	10.526	Field Joint - Bitumen Missing	16.9	
843	22	10:42:22	Damage	10.538	Field Joint - Bitumen Missing	16.9	
844	22	10:42:57	Damage	10.551	Field Joint - Bitumen Missing	16.9	
845	22	10:43:59	Damage	10.563	Field Joint - Bitumen Missing	16.9	
846	22	10:44:43	Damage	10.575	Field Joint - Bitumen Missing	16.9	
847	22	10:45:21	Damage	10.588	Field Joint - Bitumen Missing	16.9	
848	22	10:45:58	Debris	10.597	Debris - Wire Rope	16.9	
849	22	10:46:19	Damage	10.600	Field Joint - Bitumen Missing	16.9	
850	22	10:46:51	Anode Assessment	10.607	Anode Assessment - 25-50% Wasted	16.9	
851	22	10:47:16	Damage	10.612	Field Joint - Bitumen Missing	16.9	
852	22	10:48:22	Damage	10.638	Field Joint - Bitumen Missing	16.9	
853	22	10:48:57	Damage	10.650	Field Joint - Bitumen Missing	16.9	
854	22	10:49:40	Damage	10.663	Field Joint - Bitumen Missing	16.9	
855	22	10:50:20	Damage	10.675	Field Joint - Bitumen Missing	16.9	
856	22	10:51:05	Damage	10.687	Field Joint - Bitumen Missing	16.9	
857	22	10:51:44	Damage	10.700	Field Joint - Bitumen Missing	16.9	
858	22	10:52:33	Damage	10.713	Field Joint - Bitumen Missing	16.9	
859	22	10:53:20	Damage	10.726	Field Joint - Bitumen Missing	16.9	
860	22	10:53:48	Anode Assessment	10.733	Anode Assessment - 25-50% Wasted	16.9	
861	22	10:54:22	Damage	10.738	Field Joint - Bitumen Missing	16.9	
862	22	10:54:54	Damage	10.750	Field Joint - Bitumen Missing	16.9	
863	22	10:55:34	Damage	10.762	Field Joint - Bitumen Missing	16.9	
864	22	10:56:20	Damage	10.777	Field Joint - Bitumen Missing	16.9	
865	22	10:57:02	Damage	10.788	Field Joint - Bitumen Missing	16.9	
866	22	10:57:37	Damage	10.801	Field Joint - Bitumen Missing	16.9	
867	22	10:58:09	Damage	10.813	Field Joint - Bitumen Missing	16.9	
868	22	10:59:25	Damage	10.838	Field Joint - Bitumen Missing	16.9	
869	22	10:59:59	Damage	10.850	Field Joint - Bitumen Missing	16.9	
870	22	11:00:26	Anode Assessment	10.857	Anode Assessment - 25-50% Wasted	16.9	
871	22	11:03:41	Damage	10.863	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
872	22	11:04:12	Damage	10.876	Field Joint - Bitumen Missing	16.9	
873	22	11:04:48	Damage	10.888	Field Joint - Bitumen Missing	16.9	
874	22	11:05:26	Damage	10.899	Field Joint - Bitumen Missing	16.9	
875	22	11:05:56	Damage	10.913	Field Joint - Bitumen Missing	16.9	
876	22	11:06:30	Damage	10.924	Field Joint - Bitumen Missing	16.9	
877	22	11:07:02	Damage	10.937	Field Joint - Bitumen Missing	16.9	
878	22	11:07:34	Damage	10.950	Field Joint - Bitumen Missing	16.9	
879	22	11:08:14	Damage	10.962	Field Joint - Bitumen Missing	16.9	
880	22	11:08:48	Damage	10.974	Field Joint - Bitumen Missing	16.9	
881	22	11:09:09	Anode Assessment	10.981	Anode Assessment - 25-50% Wasted	16.9	
882	22	11:09:33	Damage	10.986	Field Joint - Bitumen Missing	16.9	
883	22	11:10:01	Damage	10.999	Field Joint - Bitumen Missing	16.9	
884	22	11:10:43	Damage	11.011	Field Joint - Bitumen Missing	16.9	
885	22	11:11:14	Damage	11.024	Field Joint - Bitumen Missing	16.9	
886	22	11:11:50	Debris	11.033	Debris - Wire Rope	16.9	
887	22	11:12:08	Debris	11.037	Debris - Fishing Gear	16.9	
888	22	11:12:35	Damage	11.048	Field Joint - Bitumen Missing	16.9	
889	22	11:15:06	Anode Assessment	11.105	Anode Assessment - 25-50% Wasted	16.9	
890	22	11:15:23	Damage	11.111	Field Joint - Bitumen Missing	16.9	
891	22	11:16:19	Damage	11.135	Field Joint - Bitumen Missing	16.9	
892	22	11:17:25	Damage	11.160	Field Joint - Bitumen Missing	16.9	
893	22	11:18:00	Damage	11.173	Field Joint - Bitumen Missing	16.9	
894	22	11:18:39	Damage	11.185	Field Joint - Bitumen Missing	16.9	
895	22	11:19:15	Damage	11.198	Field Joint - Bitumen Missing	16.9	
896	22	11:19:55	Damage	11.210	Field Joint - Bitumen Missing	16.9	
897	22	11:20:35	Debris	11.219	Debris - Soft Rope	16.9	
898	22	11:20:55	Damage	11.223	Field Joint - Bitumen Missing	16.9	
899	22	11:21:22	Anode Assessment	11.229	Anode Assessment - 25-50% Wasted	16.9	
900	22	11:21:54	Damage	11.235	Field Joint - Bitumen Missing	16.9	
901	22	11:23:04	Damage	11.259	Field Joint - Bitumen Missing	16.9	
902	22	11:24:19	Damage	11.285	Field Joint - Bitumen Missing	16.9	
903	22	11:24:53	Damage	11.296	Field Joint - Bitumen Missing	16.9	
904	22	12:40:29	Damage	11.320	Field Joint - Bitumen Missing	16.9	
905	22	12:42:24	Anode Assessment	11.352	Anode Assessment - 25-50% Wasted	16.9	
906	22	12:43:22	Damage	11.370	Field Joint - Bitumen Missing	16.9	
907	22	12:44:01	Damage	11.382	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
908	22	12:45:54	Damage	11.418	Field Joint - Bitumen Missing	16.9	
909	22	12:46:38	Damage	11.430	Field Joint - Bitumen Missing	16.9	
910	22	12:47:23	Damage	11.442	Field Joint - Bitumen Missing	16.9	
911	22	12:48:15	Damage	11.454	Field Joint - Bitumen Missing	16.9	
912	22	12:49:35	Anode Assessment	11.474	Anode Assessment - 25-50% Wasted	16.9	
913	22	12:52:34	Damage	11.517	Field Joint - Bitumen Missing	16.9	
914	22	12:53:15	Damage	11.529	Field Joint - Bitumen Missing	16.9	
915	22	12:54:41	Debris	11.534	Debris - Fish Trap	16.9	
916	22	12:55:32	Damage	11.541	Field Joint - Bitumen Missing	16.9	
917	22	12:57:47	Damage	11.554	Field Joint - Bitumen Missing	16.9	
918	22	12:58:36	Damage	11.566	Field Joint - Bitumen Missing	16.9	
919	22	12:59:25	Damage	11.579	Field Joint - Bitumen Missing	16.9	
920	22	13:00:10	Damage	11.591	Field Joint - Bitumen Missing	16.9	
921	22	13:00:39	Anode Assessment	11.598	Anode Assessment - 25-50% Wasted	16.9	
922	22	13:01:49	Damage	11.616	Field Joint - Bitumen Missing	16.9	
923	22	13:02:31	Damage	11.628	Field Joint - Bitumen Missing	16.9	
924	22	13:03:16	Damage	11.641	Field Joint - Bitumen Missing	16.9	
925	22	13:04:01	Damage	11.652	Field Joint - Bitumen Missing	16.9	
926	22	13:04:49	Damage	11.664	Field Joint - Bitumen Missing	16.9	
927	22	13:05:39	Damage	11.677	Field Joint - Bitumen Missing	16.9	
928	22	13:06:24	Damage	11.689	Field Joint - Bitumen Missing	16.9	
929	22	13:07:12	Damage	11.702	Field Joint - Bitumen Missing	16.9	
930	22	13:07:57	Damage	11.714	Field Joint - Bitumen Missing	16.9	
931	22	13:08:25	Anode Assessment	11.722	Anode Assessment - 25-50% Wasted	16.9	
932	22	13:08:46	Damage	11.727	Field Joint - Bitumen Missing	16.9	
933	22	13:09:32	Field Joint	11.739	Field Joint - Bitumen Missing	16.9	
934	22	13:10:13	Field Joint	11.752	Field Joint - Bitumen Missing	16.9	
935	22	13:11:04	Field Joint	11.765	Field Joint - Bitumen Missing	16.9	
936	22	13:11:46	Field Joint	11.778	Field Joint - Bitumen Missing	16.9	
937	22	13:12:28	Field Joint	11.789	Field Joint - Bitumen Missing	16.9	
938	22	13:14:01	Field Joint	11.814	Field Joint - Bitumen Missing	16.9	
939	22	13:14:50	Field Joint	11.825	Field Joint - Bitumen Missing	16.9	
940	22	13:15:35	Field Joint	11.837	Field Joint - Bitumen Missing	16.9	
941	22	13:15:56	Anode Assessment	11.844	Anode Assessment - 25-50% Wasted	16.9	
942	22	13:16:22	Field Joint	11.850	Field Joint - Bitumen Missing	16.9	
943	22	13:16:59	Field Joint	11.862	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
944	22	13:18:21	Field Joint	11.887	Field Joint - Bitumen Missing	16.9	
945	22	13:19:02	Field Joint	11.900	Field Joint - Bitumen Missing	16.9	
946	22	13:19:46	Field Joint	11.911	Field Joint - Bitumen Missing	16.9	
947	22	13:20:29	Field Joint	11.924	Field Joint - Bitumen Missing	16.9	
948	22	13:21:17	Field Joint	11.937	Field Joint - Bitumen Missing	16.9	
949	22	13:21:55	Field Joint	11.948	Field Joint - Bitumen Missing	16.9	
950	22	13:22:45	Field Joint	11.961	Field Joint - Bitumen Missing	16.9	
951	22	13:23:08	Field Joint	11.967	Field Joint - Bitumen Missing	16.9	
952	22	13:23:36	Field Joint	11.974	Field Joint - Bitumen Missing	16.9	
953	22	13:24:17	Field Joint	11.986	Field Joint - Bitumen Missing	16.9	
954	22	13:25:22	Field Joint	11.998	Field Joint - Bitumen Missing	16.9	
955	22	13:26:20	Field Joint	12.010	Field Joint - Bitumen Missing	16.9	
956	22	13:27:45	Field Joint	12.022	Field Joint - Bitumen Missing	16.9	
957	22	13:27:51	Debris	12.023	Debris - Soft Debris	16.9	Hose section
958	22	13:28:24	Field Joint	12.035	Field Joint - Bitumen Missing	16.9	
959	22	13:29:05	Field Joint	12.049	Field Joint - Bitumen Missing	16.9	
960	22	13:29:55	Debris	12.062	Debris - Fishing Gear	16.9	
961	22	13:30:37	Field Joint	12.074	Field Joint - Bitumen Missing	16.9	
962	22	13:31:12	Field Joint	12.085	Field Joint - Bitumen Missing	16.9	
963	22	13:31:37	Anode Assessment	12.092	Anode Assessment - 25-50% Wasted	16.9	
964	22	13:31:54	Debris	12.095	Debris - Fish Trap	16.9	Sitting on top of pipeline
965	22	13:33:32	Field Joint	12.110	Field Joint - Bitumen Missing	16.9	
966	22	13:34:15	Field Joint	12.123	Field Joint - Bitumen Missing	16.9	
967	22	13:35:06	Field Joint	12.134	Field Joint - Bitumen Missing	16.9	
968	22	13:35:52	Field Joint	12.147	Field Joint - Bitumen Missing	16.9	
969	22	13:36:34	Field Joint	12.159	Field Joint - Bitumen Missing	16.9	
970	22	13:37:16	Field Joint	12.172	Field Joint - Bitumen Missing	16.9	
971	22	13:38:06	Field Joint	12.185	Field Joint - Bitumen Missing	16.9	
972	22	13:38:46	Debris	12.194	Debris - Soft Rope	16.9	
973	22	13:39:03	Field Joint	12.197	Field Joint - Bitumen Missing	16.9	
974	22	13:40:50	Damage	12.215	Field Joint - Bitumen Missing	16.9	
975	22	13:44:46	Damage	12.234	Field Joint - Bitumen Missing	16.9	
976	22	13:46:58	Debris	12.270	Debris - Fishing Gear	16.9	
977	22	13:47:54	Damage	12.284	Field Joint - Bitumen Missing	16.9	
978	22	13:49:21	Damage	12.308	Field Joint - Bitumen Missing	16.9	
979	22	13:50:09	Damage	12.320	Field Joint - Bitumen Missing	16.9	
980	22	13:51:21	Damage	12.333	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
981	22	13:52:10	Damage	12.347	Field Joint - Bitumen Missing	16.9	
982	22	13:52:31	Debris	12.348	Debris - Wire Rope	16.9	
983	22	13:53:27	Damage	12.359	Field Joint - Bitumen Missing	16.9	
984	23	11:45:38	Damage	12.419	Field Joint - Bitumen Missing	16.9	
985	23	11:46:37	Damage	12.431	Field Joint - Bitumen Missing	16.9	
986	23	11:47:13	Damage	12.443	Field Joint - Bitumen Missing	16.9	
987	23	11:47:47	Damage	12.456	Field Joint - Bitumen Missing	16.9	
988	23	11:48:59	Damage	12.481	Field Joint - Bitumen Missing	16.9	
989	23	11:49:24	Debris	12.489	Debris - Fishing Gear	16.9	
990	23	11:50:17	Damage	12.506	Field Joint - Bitumen Missing	16.9	
991	23	11:50:48	Damage	12.518	Field Joint - Bitumen Missing	16.9	
992	23	11:51:23	Damage	12.530	Field Joint - Bitumen Missing	16.9	
993	23	11:51:40	Debris	12.535	Debris - Fishing Gear	16.9	
994	23	11:52:06	Damage	12.545	Field Joint - Bitumen Missing	16.9	
995	23	11:52:44	Damage	12.555	Field Joint - Bitumen Missing	16.9	
996	23	12:03:43	Damage	12.617	Field Joint - Bitumen Missing	16.9	
997	23	12:08:25	Damage	12.728	Field Joint - Bitumen Missing	16.9	
998	23	12:15:15	Damage	12.878	Field Joint - Bitumen Missing	16.9	
999	23	12:18:32	Damage	12.951	Field Joint - Bitumen Missing	16.9	
1000	23	12:19:04	Damage	12.963	Field Joint - Bitumen Missing	16.9	
1001	23	12:19:38	Damage	12.976	Field Joint - Bitumen Missing	16.9	
1002	23	12:20:08	Debris	12.978	Debris - Fish Trap	16.9	
1003	23	12:22:43	Damage	13.038	Field Joint - Bitumen Missing	16.9	
1004	23	12:24:47	Damage	13.088	Field Joint - Bitumen Missing	16.9	
1005	23	12:25:54	Damage	13.110	Field Joint - Bitumen Missing	16.9	
1006	23	12:27:47	Damage	13.146	Field Joint - Bitumen Missing	16.9	
1007	23	12:29:24	Damage	13.185	Field Joint - Bitumen Missing	16.9	
1008	23	12:32:16	Damage	13.222	Field Joint - Bitumen Missing	16.9	
1009	23	12:32:50	Damage	13.234	Field Joint - Bitumen Missing	16.9	
1010	23	12:33:22	Damage	13.247	Field Joint - Bitumen Missing	16.9	
1011	23	12:33:53	Damage	13.259	Field Joint - Bitumen Missing	16.9	
1012	23	12:34:29	Damage	13.271	Field Joint - Bitumen Missing	16.9	
1013	23	12:35:10	Damage	13.283	Field Joint - Bitumen Missing	16.9	
1014	23	12:35:51	Damage	13.296	Field Joint - Bitumen Missing	16.9	
1015	23	12:36:29	Damage	13.308	Field Joint - Bitumen Missing	16.9	
1016	23	12:38:47	Damage	13.357	Field Joint - Bitumen Missing	16.9	
1017	23	12:41:01	Damage	13.407	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
1018	23	12:41:39	Damage	13.420	Field Joint - Bitumen Missing	16.9	
1019	23	12:42:10	Damage	13.432	Field Joint - Bitumen Missing	16.9	
1020	23	12:43:14	Damage	13.458	Field Joint - Bitumen Missing	16.9	
1021	23	12:43:56	Damage	13.471	Field Joint - Bitumen Missing	16.9	
1022	23	12:44:29	Damage	13.482	Field Joint - Bitumen Missing	16.9	
1023	23	12:46:39	Damage	13.532	Field Joint - Bitumen Missing	16.9	
1024	23	12:47:13	Damage	13.544	Field Joint - Bitumen Missing	16.9	
1025	23	12:47:47	Damage	13.557	Field Joint - Bitumen Missing	16.9	
1026	23	12:48:54	Damage	13.581	Field Joint - Bitumen Missing	16.9	
1027	23	12:49:28	Damage	13.594	Field Joint - Bitumen Missing	16.9	
1028	23	12:55:31	Damage	13.667	Field Joint - Bitumen Missing	16.9	
1029	23	12:55:57	Damage	13.674	Field Joint - Bitumen Missing	16.9	
1030	23	12:57:31	Damage	13.704	Field Joint - Bitumen Missing	16.9	
1031	23	12:58:12	Damage	13.718	Field Joint - Bitumen Missing	16.9	
1032	23	13:19:14	Damage	13.755	Field Joint - Bitumen Missing	16.9	
1033	23	13:21:22	Damage	13.793	Field Joint - Bitumen Missing	16.9	
1034	23	13:22:44	Damage	13.818	Field Joint - Bitumen Missing	16.9	
1035	23	13:23:18	Damage	13.829	Field Joint - Bitumen Missing	16.9	
1036	23	13:24:38	Damage	13.855	Field Joint - Bitumen Missing	16.9	
1037	23	13:25:23	Damage	13.867	Field Joint - Bitumen Missing	16.9	
1038	23	13:26:08	Damage	13.880	Field Joint - Bitumen Missing	16.9	
1039	23	13:26:45	Damage	13.892	Field Joint - Bitumen Missing	16.9	
1040	23	13:29:14	Damage	13.941	Field Joint - Bitumen Missing	16.9	
1041	23	13:30:33	Damage	13.966	Field Joint - Bitumen Missing	16.9	
1042	23	13:38:21	Damage	14.116	Field Joint - Bitumen Missing	16.9	
1043	23	13:40:08	Damage	14.151	Field Joint - Bitumen Missing	16.9	
1044	23	13:40:49	Damage	14.164	Field Joint - Bitumen Missing	16.9	
1045	23	13:41:31	Damage	14.176	Field Joint - Bitumen Missing	16.9	
1046	23	13:42:15	Damage	14.188	Field Joint - Bitumen Missing	16.9	
1047	23	13:42:53	Damage	14.200	Field Joint - Bitumen Missing	16.9	
1048	23	13:43:42	Damage	14.213	Field Joint - Bitumen Missing	16.9	
1049	23	13:44:24	Damage	14.225	Field Joint - Bitumen Missing	16.9	
1050	23	13:46:18	Damage	14.263	Field Joint - Bitumen Missing	16.9	
1051	23	13:47:38	Damage	14.288	Field Joint - Bitumen Missing	16.9	
1052	23	13:58:53	Damage	14.350	Field Joint - Bitumen Missing	16.9	
1053	23	14:00:04	Damage	14.374	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
1054	23	14:02:27	Damage	14.425	Field Joint - Bitumen Missing	16.9	
1055	23	14:03:38	Damage	14.448	Field Joint - Bitumen Missing	16.9	
1056	23	14:04:17	Damage	14.461	Field Joint - Bitumen Missing	16.9	
1057	23	14:05:00	Damage	14.474	Field Joint - Bitumen Missing	16.9	
1058	23	14:05:43	Damage	14.485	Field Joint - Bitumen Missing	16.9	
1059	23	14:07:10	Damage	14.509	Field Joint - Bitumen Missing	16.9	
1060	23	14:07:47	Damage	14.522	Field Joint - Bitumen Missing	16.9	
1061	23	14:08:28	Damage	14.534	Field Joint - Bitumen Missing	16.9	
1062	23	14:09:08	Damage	14.546	Field Joint - Bitumen Missing	16.9	
1063	23	14:09:52	Damage	14.558	Field Joint - Bitumen Missing	16.9	
1064	23	14:12:00	Damage	14.595	Field Joint - Bitumen Missing	16.9	
1065	23	14:12:46	Damage	14.608	Field Joint - Bitumen Missing	16.9	
1066	23	14:13:22	Damage	14.620	Field Joint - Bitumen Missing	16.9	
1067	23	14:14:03	Damage	14.633	Field Joint - Bitumen Missing	16.9	
1068	23	14:15:10	Damage	14.657	Field Joint - Bitumen Missing	16.9	
1069	23	14:16:24	Damage	14.682	Field Joint - Bitumen Missing	16.9	
1070	23	14:18:54	Damage	14.733	Field Joint - Bitumen Missing	16.9	
1071	23	14:19:22	Damage	14.744	Field Joint - Bitumen Missing	16.9	
1072	23	14:19:59	Damage	14.757	Field Joint - Bitumen Missing	16.9	
1073	23	14:21:17	Damage	14.783	Field Joint - Bitumen Missing	16.9	
1074	23	14:22:19	Debris	14.794	Debris - Fish Trap	16.9	
1075	23	14:26:10	Damage	14.833	Field Joint - Bitumen Missing	16.9	
1076	23	14:26:39	Damage	14.847	Field Joint - Bitumen Missing	16.9	
1077	23	14:27:15	Damage	14.858	Field Joint - Bitumen Missing	16.9	
1078	23	14:28:52	Damage	14.897	Field Joint - Bitumen Missing	16.9	
1079	23	14:30:00	Damage	14.922	Field Joint - Bitumen Missing	16.9	
1080	23	14:38:42	Damage	15.101	Field Joint - Bitumen Missing	16.9	
1081	23	15:34:06	Damage	15.294	Field Joint - Bitumen Missing	16.9	
1082	23	15:36:31	Damage	15.331	Field Joint - Bitumen Missing	16.9	
1083	24	08:30:45	Damage	15.343	Field Joint - Bitumen Missing	16.9	
1084	24	08:31:33	Damage	15.355	Field Joint - Bitumen Missing	16.9	
1085	24	08:32:18	Damage	15.368	Field Joint - Bitumen Missing	16.9	
1086	24	08:33:05	Damage	15.381	Field Joint - Bitumen Missing	16.9	
1087	24	08:33:53	Damage	15.393	Field Joint - Bitumen Missing	16.9	
1088	24	08:34:39	Damage	15.407	Field Joint - Bitumen Missing	16.9	
1089	24	08:35:36	Damage	15.419	Field Joint - Bitumen Missing	16.9	



Visual Inspection

NO	DATE (April)	TIME	RECORDED EVENT	KP	Actual Event	Depth (m)	COMMENT
1090	24	08:36:27	Damage	15.431	Field Joint - Bitumen Missing	16.9	
1091	24	08:41:38	Damage	15.533	Field Joint - Bitumen Missing	16.9	
1092	24	08:44:54	Damage	15.598	Field Joint - Bitumen Missing	16.9	
1093	24	08:55:20	Damage	15.737	Field Joint - Bitumen Missing	16.9	
1094	24	08:57:09	Damage	15.762	Field Joint - Bitumen Missing	16.9	
1095	24	08:57:54	Damage	15.775	Field Joint - Bitumen Missing	16.9	
1096	24	08:58:49	Damage	15.788	Field Joint - Bitumen Missing	16.9	
1097	24	08:59:36	Damage	15.801	Field Joint - Bitumen Missing	16.9	
1098	24	09:02:25	Damage	15.839	Field Joint - Bitumen Missing	16.9	
1099	24	09:03:27	Damage	15.852	Field Joint - Bitumen Missing	16.9	
1100	24	09:04:46	Damage	15.870	Field Joint - Bitumen Missing	16.9	
1101	24	09:05:22	Damage	15.877	Field Joint - Bitumen Missing	16.9	
1102	24	09:07:24	Damage	15.903	Field Joint - Bitumen Missing	16.9	
1103	24	09:08:20	Damage	15.916	Field Joint - Bitumen Missing	16.9	
1104	24	09:09:11	Damage	15.929	Field Joint - Bitumen Missing	16.9	
1105	24	09:10:53	Damage	15.953	Field Joint - Bitumen Missing	16.9	

Representative	OWA Data Recorder		OWA Supervisor
Signature:	Electronic form no signature required		Electronic form no signature required
Name (Print):	Chanatip I.		Mark R.



Video Log

Date	13 th April 2023	OWA Group	Thailand	Report No	53-66001-27-VL-01
Project No	53-66001	Dive/ROV Sys.	Falcon 12450	Dive No	See Below
Client	Star Petroleum Refining and PTT Global Chemical			Vessel	Uniwise Rayong
Project Name	PTTGC-SPRC SPM Diving Inspection and Maintenance - 48" Crude Import Pipeline Inspection				
Location	Map Ta Phut Thailand				
Date & Time	Dive No	Description	Video File Name		
2023-04-13 12:51:13	06	Start Inspection Video at KP0.007 (Introduction at Flange)	2023-0413-125112-981-CHANNEL 1.asf		
2023-04-13 13:15:53	06	Stopped Inspection Video at KP0.066			
2023-04-13 14:39:30	07	Start Inspection Video at KP0.063	2023-0413-143929-689-CHANNEL 1.asf		
2023-04-13 14:54:23	07	Stopped Inspection Video at KP0.110			
2023-04-13 14:57:56	07	Start Inspection Video at KP0.109	2023-0413-145755-938-CHANNEL 1.asf		
2023-04-13 15:18:50	07	Stopped Inspection Video at KP0.188			
2023-04-14 08:12:02	09	Start Inspection Video at KP0.184	2023-0414-091202-048-CHANNEL 1.asf		
2023-04-14 08:17:13	09	Stopped Inspection Video at KP0.176			
2023-04-15 12:19:56	10	Start Inspection Video at KP0.182	2023-0415-121955-706-CHANNEL 1.asf		
2023-04-15 12:40:23	10	Stopped Inspection Video at KP0.271			
2023-04-15 13:41:00	11	Start Inspection Video at KP0.268	2023-0415-134059-751-CHANNEL 1.asf		
2023-04-15 13:45:21	11	Stopped Inspection Video at KP0.277			
2023-04-15 13:48:58	11	Start Inspection Video at KP0.280	2023-0415-134858-348-CHANNEL 1.asf		
2023-04-15 14:18:59	11	New Video File Started (Inspection Ongoing)			
2023-04-15 14:18:59	11	Start New File at KP0.458	2023-0415-141859-170-CHANNEL 1.asf		
2023-04-15 14:22:30	11	Stopped Inspection Video at KP0.460			
2023-04-15 14:23:29	11	Start Inspection Video at KP0.457	2023-0415-142328-883-CHANNEL 1.asf		
2023-04-15 14:29:23	11	Stopped Inspection Video at KP0.473			
2023-04-15 14:38:47	11	Start Inspection Video at KP0.473	2023-0415-143846-530-CHANNEL 1.asf		
2023-04-15 14:39:25	11	Stopped Inspection Video at KP0.479			
2023-04-15 15:20:33	12	Start Inspection Video at KP0.478	2023-0415-152033-096-CHANNEL 1.asf		
2023-04-15 15:46:02	12	Stopped Inspection Video at KP0.649			
2023-04-17 10:15:53	14	Start Inspection Video at KP0.644	2023-0417-101552-848-CHANNEL 1.asf		
2023-04-17 10:40:59	14	Stopped Inspection Video at KP0.859			
2023-04-17 10:56:56	15	Start Inspection Video at KP0.855	2023-0417-105655-796-CHANNEL 1.asf		
2023-04-17 11:03:50	15	Stopped Inspection Video at KP0.864			
2023-04-17 11:13:58	16	Start Inspection Video at KP0.882	2023-0417-111357-883-CHANNEL 1.asf		
2023-04-17 11:43:58	16	New Video File Started (Inspection Ongoing)			
2023-04-17 11:43:58	16	Start New File at KP1.251	2023-0417-114357-694-CHANNEL 1.asf		
2023-04-17 12:06:15	16	Stopped Inspection Video at KP1.500			
2023-04-17 13:53:01	18	Start Inspection Video at KP1.508	2023-0417-135301-425-CHANNEL 1.asf		
2023-04-17 14:02:40	18	Stopped Inspection Video at KP1.571			
2023-04-17 14:14:14	19	Start Inspection Video at KP0.346	2023-0417-141414-977-CHANNEL 1.asf		
2023-04-17 14:26:22	19	Stopped Inspection Video at KP-0.001			
2023-04-17 14:37:08	20	Start Inspection Video at KP1.655	2023-0417-143707-901-CHANNEL 1.asf		
2023-04-17 15:02:12	20	Stopped Inspection Video at KP1.890			
2023-04-17 15:16:22	21	Start Inspection Video at KP1.894	2023-0417-151622-351-CHANNEL 1.asf		
2023-04-17 15:24:48	21	Stopped Inspection Video at KP1.963			
2023-04-17 15:38:08	22	Start Inspection Video at KP1.962	2023-0417-153807-339-CHANNEL 1.asf		
2023-04-17 16:02:40	22	Stopped Inspection Video at KP2.188			
2023-04-18 08:26:26	23	Start Inspection Video at KP2.172	2023-0418-082626-103-CHANNEL 1.asf		



Video Log

Date & Time	Dive No	Description	Video File Name
2023-04-18 08:47:10	23	Stopped Inspection Video at KP2.394	
2023-04-18 09:01:43	24	Start Inspection Video at KP2.390	2023-0418-090142-289-CHANNEL 1.asf
2023-04-18 09:20:55	24	Stopped Inspection Video at KP2.514	
2023-04-18 09:35:46	25	Start Inspection Video at KP2.521	2023-0418-093546-465-CHANNEL 1.asf
2023-04-18 09:53:33	25	Stopped Inspection Video at KP2.756	
2023-04-18 10:32:46	26	Start Inspection Video at KP2.755	2023-0418-103245-590-CHANNEL 1.asf
2023-04-18 11:02:46	26	New Video File Started (Inspection Ongoing)	
2023-04-18 11:02:46	26	Start New File at KP3.117	2023-0418-110246-414-CHANNEL 1.asf
2023-04-18 11:18:12	26	Stopped Inspection Video at KP3.283	
2023-04-18 11:29:17	27	Start Inspection Video at KP3.275	2023-0418-112917-337-CHANNEL 1.asf
2023-04-18 11:59:17	27	New Video File Started (Inspection Ongoing)	
2023-04-18 11:59:17	27	Start New File at KP3.667	2023-0418-115917-147-CHANNEL 1.asf
2023-04-18 12:00:37	27	Stopped Inspection Video at KP3.680	
2023-04-18 13:25:58	28	Start Inspection Video at KP3.676	2023-0418-132557-877-CHANNEL 1.asf
2023-04-18 13:55:58	28	New Video File Started (Inspection Ongoing)	
2023-04-18 13:55:58	28	Start New File at KP4.078	2023-0418-135557-685-CHANNEL 1.asf
2023-04-18 14:25:59	28	New Video File Started (Inspection Ongoing)	
2023-04-18 14:25:59	28	Start New File at KP4.390	2023-0418-142558-506-CHANNEL 1.asf
2023-04-18 14:39:00	28	Stopped Inspection Video at KP4.545	
2023-04-18 14:56:15	29	Start Inspection Video at KP4.543	2023-0418-145615-549-CHANNEL 1.asf
2023-04-18 15:26:16	29	New Video File Started (Inspection Ongoing)	
2023-04-18 15:26:16	29	Start New File at KP4.914	2023-0418-152615-360-CHANNEL 1.asf
2023-04-18 15:48:26	29	Stopped Inspection Video at KP5.185	
2023-04-19 08:06:39	30	Start Inspection Video at KP5.200	2023-0419-080639-388-CHANNEL 1.asf
2023-04-19 08:24:35	30	Stopped Inspection Video at KP5.382	
2023-04-19 08:38:35	31	Start Inspection Video at KP5.378	2023-0419-083834-864-CHANNEL 1.asf
2023-04-19 09:03:59	31	Stopped Inspection Video at KP5.649	
2023-04-19 09:13:35	32	Start Inspection Video at KP5.651	2023-0419-091334-808-CHANNEL 1.asf
2023-04-19 09:43:35	32	New Video File Started (Inspection Ongoing)	
2023-04-19 09:43:35	32	Start New File at KP6.154	2023-0419-094335-631-CHANNEL 1.asf
2023-04-19 10:11:37	32	New Video File Started (Inspection Ongoing)	
2023-04-19 10:25:11	33	Start Inspection Video at KP6.563	2023-0419-102511-023-CHANNEL 1.asf
2023-04-19 10:40:31	33	Stopped Inspection Video at KP6.837	
2023-04-19 10:57:25	34	Start Inspection Video at KP6.836	2023-0419-105725-689-CHANNEL 1.asf
2023-04-19 11:25:22	34	New Video File Started (Inspection Ongoing)	
2023-04-19 11:32:48	35	Start Inspection Video at KP7.140	2023-0419-113247-940-CHANNEL 1.asf
2023-04-19 11:43:06	35	Stopped Inspection Video at KP7.220	
2023-04-19 13:12:59	36	Start Inspection Video at KP7.216	2023-0419-131259-806-CHANNEL 1.asf
2023-04-19 13:43:00	36	New Video File Started (Inspection Ongoing)	
2023-04-19 13:43:00	36	Start New File at KP7.741	2023-0419-134259-617-CHANNEL 1.asf
2023-04-19 13:53:17	36	Stopped Inspection Video at KP7.830	
2023-04-19 14:06:29	37	Start Inspection Video at KP7.829	2023-0419-140629-038-CHANNEL 1.asf
2023-04-19 14:27:05	37	Stopped Inspection Video at KP8.079	
2023-04-19 14:38:10	38	Start Inspection Video at KP8.088	2023-0419-143810-244-CHANNEL 1.asf
2023-04-19 15:08:11	38	New Video File Started (Inspection Ongoing)	
2023-04-19 15:08:11	38	Start New File at KP8.426	2023-0419-150811-070-CHANNEL 1.asf
2023-04-19 15:38:11	38	New Video File Started (Inspection Ongoing)	

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Appendix B: 3rd Party Survey Report



Video Log

Date & Time	Dive No	Description	Video File Name
2023-04-19 15:38:11	38	Start New File at KP8.749	2023-0419-153810-878-CHANNEL 1.asf
2023-04-19 15:44:26	38	Stopped Inspection Video at KP8.765	
2023-04-19 16:07:01	40	Start Inspection Video at KP8.848	2023-0419-160701-731-CHANNEL 1.asf
2023-04-19 16:21:04	40	Stopped Inspection Video at KP9.050	
2023-04-22 09:10:28	41	Start Inspection Video at KP9.043	2023-0422-091028-232-CHANNEL 1.asf
2023-04-22 09:40:28	41	New Video File Started (Inspection Ongoing)	
2023-04-22 09:40:28	41	Start New File at KP9.444	2023-0422-094028-289-CHANNEL 1.asf
2023-04-22 10:10:29	41	New Video File Started (Inspection Ongoing)	
2023-04-22 10:10:29	41	Start New File at KP10.003	2023-0422-101028-092-CHANNEL 1.asf
2023-04-22 10:40:29	41	New Video File Started (Inspection Ongoing)	
2023-04-22 10:40:29	41	Start New File at KP10.500	2023-0422-104028-910-CHANNEL 1.asf
2023-04-22 11:10:29	41	New Video File Started (Inspection Ongoing)	
2023-04-22 11:10:29	41	Start New File at KP11.008	2023-0422-111029-728-CHANNEL 1.asf
2023-04-22 11:25:41	41	Stopped Inspection Video at KP11.302	
2023-04-22 12:39:06	42	Start Inspection Video at KP11.307	2023-0422-123905-998-CHANNEL 1.asf
2023-04-22 13:09:06	42	New Video File Started (Inspection Ongoing)	
2023-04-22 13:09:06	42	Start New File at KP11.731	2023-0422-130905-906-CHANNEL 1.asf
2023-04-22 13:39:03	42	New Video File Started (Inspection Ongoing)	
2023-04-22 13:39:07	42	Start New File at KP12.197	2023-0422-133906-628-CHANNEL 1.asf
2023-04-22 13:57:00	42	Stopped Inspection Video at KP12.393	
2023-04-23 11:42:56	43	Start Inspection Video at KP12.384	2023-0423-114256-541-CHANNEL 1.asf
2023-04-23 11:53:43	43	Stopped Inspection Video at KP12.550	
2023-04-23 12:02:09	43	Start Inspection Video at KP12.589	2023-0423-120208-417-CHANNEL 1.asf
2023-04-23 12:30:34	43	New Video File Started (Inspection Ongoing)	
2023-04-23 12:31:15	43	Start New File at KP13.210	2023-0423-123114-481-CHANNEL 1.asf
2023-04-23 13:00:55	43	New Video File Started (Inspection Ongoing)	
2023-04-23 13:17:54	44	Start Inspection Video at KP13.746	2023-0423-131754-067-CHANNEL 1.asf
2023-04-23 13:47:55	44	New Video File Started (Inspection Ongoing)	
2023-04-23 13:47:55	44	Start New File at KP14.293	2023-0423-134754-891-CHANNEL 1.asf
2023-04-23 13:50:13	44	Stopped Inspection Video at KP14.320	
2023-04-23 13:58:34	44	Start Inspection Video at KP14.344	2023-0423-135833-693-CHANNEL 1.asf
2023-04-23 14:28:34	44	New Video File Started (Inspection Ongoing)	
2023-04-23 14:28:34	44	Start New File at KP14.889	2023-0423-142834-516-CHANNEL 1.asf
2023-04-23 14:39:48	44	Stopped Inspection Video at KP15.101	
2023-04-23 15:30:06	45	Start Inspection Video at KP15.228	2023-0423-153006-400-CHANNEL 1.asf
2023-04-23 15:41:05	45	Stopped Inspection Video at KP15.376	
2023-04-24 08:27:47	47	Start Inspection Video at KP15.305	2023-0424-082747-554-CHANNEL 1.asf
2023-04-24 08:57:48	47	New Video File Started (Inspection Ongoing)	
2023-04-24 08:57:48	47	Start New File at KP15.773	2023-0424-085747-359-CHANNEL 1.asf
2023-04-24 09:20:02	47	Stopped Inspection Video at KP15.999 (End of inspection)	

Representative	OWA Data Recorder		OWA Supervisor
Signature:	Electronic form no signature required		Electronic form no signature required
Name (Print):	Chanatip I.		Mark R.

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NAVIGATION REPORT

For

MAP TA PHUT 48" SUBSEA CRUDE IMPORT PIPELINE

Report No.2305O01_P

Date of Survey: 11 April – 25 April 2023

Date of Report: 23 May 2023

M.V.M. Surveys (Thailand) Co., Ltd.

120 Soi 4, Rangkratai Road, Ladysao, Chatuchak, Bangkok, Thailand 10900
Tel: 662 591 6288 Fax: 662 591 6285

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Map Ta Phut 48" Subsea Crude Import Pipeline Report

2.0 Survey Details

The following equipment were used for this survey. Equipment brochures and specifications are attached in Appendix A

Positioning System	Hemisphere Vega 28 GNSS Dual Antenna Receiver with Atlas L-band DGPS
Navigation System	Hypack 2013a
USBL System	Sonardyne Scout Plus USBL Sonardyne 8271 Wideband Sub-Mini 6 transponder

The survey data in this report are all referenced to below geodetic system

GEODETTIC PARAMETERS	
Local Datum	Indian 1975
Local Reference Spheroid	Everest 1830 (1937 adjustment)
Semi Major Axis (a)	6 377 276.345 metres
Inverse Flattening (1/f)	300.8017
Mapping Projection	Universal Transverse Mercator (UTM)
Grid Zone	47 (North of Equator)
Central Meridian (CM)	99° East
Scale Factor at CM	0.9996
Satellite Datum Satellite Reference Spheroid	WGS 84 GRS 1980
Semi Major Axis	6 378 137.000 m
Inverse Flattening	298.257 223 563
Datum Shift Parameters	From WGS 84 to Indian 1975
ΔX	-204.64 m
ΔY	-834.74 m
ΔZ	-293.80 m



1.0 Introduction

MVM Surveys (Thailand) Co. Ltd. was contracted by Ocean Works Asia (Thailand) Co. Ltd. to provide navigation and USBL (Ultra-Short Base Line) positioning for the ROV inspection survey of the Map Ta Phut 48" Subsea Crude Import Pipeline.

Mobilisation for the project commenced on April 11th on the Uniwise Rayong Vessel in Map Ta Phut.

Survey commenced on the April 12th to April 24th upon ROV reaching full burial of the pipeline at KP 16.

Final Demobilisation was on April 25th, 2023.



Map Ta Phut 48" Subsea Crude Import Pipeline Report

3.0 Daily Log Summary

Date	Time	Depth (Meters)
13 Apr 23	1100	Start at Flange
	1520	END KP 0.190
14 Apr 23		Troubleshooting ROV
15 Apr 23	1210	Start Survey 0.190
	1548	END KP 0.649
16 Apr 23		Standby bad weather
17 Apr 23	1015	Start survey KP 0.190
	1602	END survey KP 2.189
18 Apr 23	0815	Start survey KP 2.189
	1546	End survey KP 5.200
19 Apr 23	0800	Start survey KP 5.200
	1620	END survey KP 9.050
20 Apr 23		Troubleshooting ROV
21 Apr 23		Troubleshooting ROV(On shore)
22 Apr 23	0912	Start survey KP 9.050
	1445	End survey KP 12.400
23 Apr 23	1230	Start survey KP 12.400
	1530	END survey KP 15.370
24 Apr 23	0830	Start survey 15.370
	0915	END survey 16.000 Full Burial Pipeline



Map Ta Phut 48" Subsea Crude Import Pipeline Report

4.0 Summary of Targets

Table of Anodes

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.365	AND01	Anode Assessment - 25-50% Wasted	738902.06	1381621.99	15/04/2023	14:09:06	No Additional Comment
2.140	AND02	Anode Assessment - 25-50% Wasted	738447.84	1383338.28	17/04/2023	15:56:33	No Additional Comment
2.268	AND03	Anode Assessment - 25-50% Wasted	738417.07	1383462.51	18/04/2023	08:34:20	No Additional Comment
2.521	AND04	Anode Assessment - 25-50% Wasted	738351.11	1383706.42	18/04/2023	09:35:47	No Additional Comment
2.649	AND05	Anode Assessment - 25-50% Wasted	738318.78	1383829.88	18/04/2023	09:45:05	No Additional Comment
2.775	AND06	Anode Assessment - 25-50% Wasted	738286.68	1383951.81	18/04/2023	10:35:16	No Additional Comment
2.903	AND07	Anode Assessment - 25-50% Wasted	738254.88	1384075.99	18/04/2023	10:44:12	No Additional Comment
3.030	AND08	Anode Assessment - 25-50% Wasted	738222.19	1384198.63	18/04/2023	10:52:39	No Additional Comment
3.157	AND09	Anode Assessment - 25-50% Wasted	738188.87	1384321.45	18/04/2023	11:06:11	No Additional Comment
3.282	AND10	Anode Assessment - 25-50% Wasted	738156.95	1384442.45	18/04/2023	11:15:19	CP1/987mV
3.410	AND11	Anode Assessment - 25-50% Wasted	738124.28	1384565.93	18/04/2023	11:39:39	No Additional Comment
3.533	AND12	Anode Assessment - 25-50% Wasted	738093.60	1384685.15	18/04/2023	11:50:18	No Additional Comment
3.660	AND13	Anode Assessment - 25-50% Wasted	738062.31	1384808.42	18/04/2023	11:58:33	No Additional Comment
3.785	AND14	Anode Assessment - 25-50% Wasted	738031.28	1384929.58	18/04/2023	13:34:31	No Additional Comment
3.913	AND15	Anode Assessment - 25-50% Wasted	737998.22	1385053.17	18/04/2023	13:42:56	No Additional Comment
4.039	AND16	Anode Assessment - 25-50% Wasted	737965.15	1385174.72	18/04/2023	13:52:48	No Additional Comment
4.166	AND17	Anode Assessment - 25-50% Wasted	737935.39	1385298.04	18/04/2023	14:03:36	No Additional Comment
4.293	AND18	Anode Assessment - 25-50% Wasted	737902.43	1385420.17	18/04/2023	14:19:40	No Additional Comment
4.420	AND19	Anode Assessment - 25-50% Wasted	737870.38	1385543.42	18/04/2023	14:28:09	No Additional Comment
4.545	AND20	Anode Assessment - 25-50% Wasted	737837.66	1385664.01	18/04/2023	14:57:01	No Additional Comment
4.669	AND21	Anode Assessment - 25-50% Wasted	737805.71	1385783.47	18/04/2023	15:06:21	No Additional Comment
4.793	AND22	Anode Assessment - 25-50% Wasted	737774.56	1385903.56	18/04/2023	15:15:44	No Additional Comment
5.287	AND23	Anode Assessment - 25-50% Wasted	737649.33	1386381.95	19/04/2023	08:14:54	No Additional Comment
5.413	AND24	Anode Assessment - 25-50% Wasted	737615.31	1386503.31	19/04/2023	08:42:16	Enter Event Comment
5.534	AND25	Anode Assessment - 25-50% Wasted	737585.87	1386620.49	19/04/2023	08:55:18	No Additional Comment
5.781	AND26	Anode Assessment - 25-50% Wasted	737522.81	1386859.55	19/04/2023	09:22:02	No Additional Comment
6.033	AND27	Anode Assessment - 25-50% Wasted	737459.40	1387103.61	19/04/2023	09:35:22	No Additional Comment
6.152	AND28	Anode Assessment - 25-50% Wasted	737428.92	1387218.66	19/04/2023	09:42:38	No Additional Comment
6.276	AND29	Anode Assessment - 25-50% Wasted	737397.72	1387338.37	19/04/2023	09:52:57	No Additional Comment
6.400	AND30	Anode Assessment - 25-50% Wasted	737365.75	1387458.06	19/04/2023	10:00:51	No Additional Comment
6.645	AND31	Anode Assessment - 25-50% Wasted	737303.78	1387695.33	19/04/2023	10:29:52	No Additional Comment
6.769	AND32	Anode Assessment - 25-50% Wasted	737272.61	1387814.90	19/04/2023	10:36:10	No Additional Comment
6.893	AND33	Anode Assessment - 25-50% Wasted	737240.98	1387934.66	19/04/2023	11:01:45	No Additional Comment
7.016	AND34	Anode Assessment - 25-50% Wasted	737208.13	1388053.48	19/04/2023	11:09:50	No Additional Comment
7.140	AND35	Anode Assessment - 25-50% Wasted	737176.51	1388173.06	19/04/2023	11:17:06	No Additional Comment
7.264	AND36	Anode Assessment - 25-50% Wasted	737144.80	1388293.53	19/04/2023	13:16:03	No Additional Comment
7.387	AND37	Anode Assessment - 25-50% Wasted	737113.57	1388412.81	19/04/2023	13:22:04	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

Table of Cathodic Protection – CP Steel

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.008	CP - Steel	Cathodic Protection - CP Steel	738990.42	1381275.57	13/04/2023	12:54:29	PLEM side of flange connection CP1/969mV
0.009	CP - Steel	Cathodic Protection - CP Steel	738990.96	1381276.74	13/04/2023	12:56:08	Pipeline side of flange connection CP1/969mV

Table of Field Joints

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.112	FJ-GC	Field Joint - Good Condition	738968.13	1381377.95	13/04/2023	15:00:02	No Additional Comment
0.296	FJ-BM001	Field Joint - Bitumen Missing	738919.10	1381555.12	15/04/2023	13:52:43	No Additional Comment
0.309	FJ-BM002	Field Joint - Bitumen Missing	738916.16	1381567.60	15/04/2023	13:56:17	No Additional Comment
0.321	FJ-BM003	Field Joint - Bitumen Missing	738913.08	1381578.82	15/04/2023	13:57:44	No Additional Comment
0.334	FJ-BM004	Field Joint - Bitumen Missing	738909.59	1381591.36	15/04/2023	13:59:12	No Additional Comment
0.346	FJ-BM005	Field Joint - Bitumen Missing	738906.77	1381603.72	15/04/2023	14:03:11	No Additional Comment
0.422	FJ-BM006	Field Joint - Bitumen Missing	738896.96	1381676.66	15/04/2023	14:15:01	No Additional Comment
0.498	FJ-BM007	Field Joint - Bitumen Missing	738888.32	1381750.32	15/04/2023	15:23:54	No Additional Comment
0.523	FJ-BM008	Field Joint - Bitumen Missing	738861.71	1381774.96	15/04/2023	15:26:52	No Additional Comment
0.536	FJ-BM009	Field Joint - Bitumen Missing	738858.40	1381787.68	15/04/2023	15:28:06	No Additional Comment
0.549	FJ-BM010	Field Joint - Bitumen Missing	738855.56	1381799.66	15/04/2023	15:29:31	No Additional Comment
0.561	FJ-BM011	Field Joint - Bitumen Missing	738852.48	1381811.99	15/04/2023	15:31:35	No Additional Comment
0.574	FJ-BM012	Field Joint - Bitumen Missing	738849.71	1381824.34	15/04/2023	15:33:18	No Additional Comment
0.600	FJ-BM013	Field Joint - Bitumen Missing	738842.86	1381849.37	15/04/2023	15:37:48	No Additional Comment
0.613	FJ-BM014	Field Joint - Bitumen Missing	738839.53	1381861.59	15/04/2023	15:39:06	No Additional Comment
0.618	FJ-BM015	Field Joint - Bitumen Missing	738838.94	1381867.40	15/04/2023	15:41:41	No Additional Comment
0.625	FJ-BM016	Field Joint - Bitumen Missing	738836.75	1381873.99	15/04/2023	15:42:40	No Additional Comment
0.638	FJ-BM017	Field Joint - Bitumen Missing	738833.08	1381886.03	15/04/2023	15:44:08	No Additional Comment
0.652	FJ-BM018	Field Joint - Bitumen Missing	738827.49	1381899.08	17/04/2023	10:17:11	No Additional Comment
0.690	FJ-BM019	Field Joint - Bitumen Missing	738819.26	1381935.50	17/04/2023	10:22:43	No Additional Comment
0.728	FJ-BM020	Field Joint - Bitumen Missing	738808.49	1381972.89	17/04/2023	10:27:40	No Additional Comment
0.766	FJ-BM021	Field Joint - Bitumen Missing	738798.53	1382009.44	17/04/2023	10:30:30	No Additional Comment
0.779	FJ-BM022	Field Joint - Bitumen Missing	738795.63	1382021.79	17/04/2023	10:31:44	No Additional Comment
0.817	FJ-BM023	Field Joint - Bitumen Missing	738785.84	1382058.72	17/04/2023	10:35:05	No Additional Comment
0.830	FJ-BM024	Field Joint - Bitumen Missing	738782.22	1382071.18	17/04/2023	10:36:29	No Additional Comment
0.842	FJ-BM025	Field Joint - Bitumen Missing	738779.00	1382083.26	17/04/2023	10:38:11	No Additional Comment
0.856	FJ-BM026	Field Joint - Bitumen Missing	738776.06	1382096.06	17/04/2023	10:39:42	No Additional Comment
0.869	FJ-BM027	Field Joint - Bitumen Missing	738772.15	1382108.40	17/04/2023	10:58:41	No Additional Comment
0.881	FJ-BM028	Field Joint - Bitumen Missing	738768.15	1382120.40	17/04/2023	11:00:08	No Additional Comment
0.893	FJ-BM029	Field Joint - Bitumen Missing	738766.19	1382132.00	17/04/2023	11:15:10	No Additional Comment
0.906	FJ-BM030	Field Joint - Bitumen Missing	738762.43	1382144.44	17/04/2023	11:16:11	No Additional Comment
0.919	FJ-BM031	Field Joint - Bitumen Missing	738759.25	1382157.26	17/04/2023	11:17:13	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
7.511	AND38	Anode Assessment - 25-50% Wasted	737082.04	1388532.56	19/04/2023	13:28:52	No Additional Comment
7.636	AND39	Anode Assessment - 25-50% Wasted	737050.48	1388653.30	19/04/2023	13:36:32	No Additional Comment
7.759	AND40	Anode Assessment - 25-50% Wasted	737018.47	1388771.94	19/04/2023	13:44:36	No Additional Comment
7.882	AND41	Anode Assessment - 25-50% Wasted	736988.10	1388891.48	19/04/2023	14:10:26	No Additional Comment
8.008	AND42	Anode Assessment - 25-50% Wasted	736956.01	1389012.60	19/04/2023	14:17:42	No Additional Comment
8.132	AND43	Anode Assessment - 25-50% Wasted	736924.87	1389132.76	19/04/2023	14:41:01	No Additional Comment
8.258	AND44	Anode Assessment - 25-50% Wasted	736891.59	1389254.21	19/04/2023	14:50:15	No Additional Comment
8.380	AND45	Anode Assessment - 25-50% Wasted	736860.54	1389372.24	19/04/2023	15:05:02	No Additional Comment
8.627	AND46	Anode Assessment - 25-50% Wasted	736796.74	1389611.22	19/04/2023	15:25:12	No Additional Comment
8.749	AND47	Anode Assessment - 25-50% Wasted	736766.53	1389729.42	19/04/2023	15:35:16	No Additional Comment
8.871	AND48	Anode Assessment - 25-50% Wasted	736734.76	1389847.59	19/04/2023	16:08:55	No Additional Comment
8.995	AND49	Anode Assessment - 25-50% Wasted	736702.14	1389966.92	19/04/2023	16:15:45	No Additional Comment
9.121	AND50	Anode Assessment - 25-50% Wasted	736671.87	1390088.80	22/04/2023	09:17:32	No Additional Comment
9.244	AND51	Anode Assessment - 25-50% Wasted	736641.03	1390208.43	22/04/2023	09:26:37	No Additional Comment
9.369	AND52	Anode Assessment - 25-50% Wasted	736609.46	1390328.67	22/04/2023	09:35:41	No Additional Comment
9.491	AND53	Anode Assessment - 25-50% Wasted	736578.16	1390447.16	22/04/2023	09:43:17	No Additional Comment
9.863	AND54	Anode Assessment - 25-50% Wasted	736483.33	1390806.77	22/04/2023	10:03:13	No Additional Comment
9.987	AND55	Anode Assessment - 25-50% Wasted	736451.84	1390926.37	22/04/2023	10:09:28	No Additional Comment
10.111	AND56	Anode Assessment - 25-50% Wasted	736420.27	1391047.10	22/04/2023	10:16:16	No Additional Comment
10.236	AND57	Anode Assessment - 25-50% Wasted	736387.86	1391167.83	22/04/2023	10:23:49	No Additional Comment
10.360	AND58	Anode Assessment - 25-50% Wasted	736356.85	1391287.55	22/04/2023	10:33:43	No Additional Comment
10.484	AND59	Anode Assessment - 25-50% Wasted	736325.44	1391407.20	22/04/2023	10:39:45	No Additional Comment
10.607	AND60	Anode Assessment - 25-50% Wasted	736293.94	1391526.10	22/04/2023	10:46:51	No Additional Comment
10.733	AND61	Anode Assessment - 25-50% Wasted	736261.94	1391647.76	22/04/2023	10:53:48	No Additional Comment
10.857	AND62	Anode Assessment - 25-50% Wasted	736230.49	1391768.59	22/04/2023	11:00:26	No Additional Comment
10.981	AND63	Anode Assessment - 25-50% Wasted	736198.93	1391887.84	22/04/2023	11:09:09	No Additional Comment
11.105	AND64	Anode Assessment - 25-50% Wasted	736167.36	1392008.10	22/04/2023	11:15:06	No Additional Comment
11.229	AND65	Anode Assessment - 25-50% Wasted	736135.68	1392128.28	22/04/2023	11:21:22	No Additional Comment
11.352	AND66	Anode Assessment - 25-50% Wasted	736104.72	1392246.55	22/04/2023	12:42:24	No Additional Comment
11.474	AND67	Anode Assessment - 25-50% Wasted	736073.80	1392364.38	22/04/2023	12:49:35	No Additional Comment
11.598	AND68	Anode Assessment - 25-50% Wasted	736041.35	1392484.68	22/04/2023	13:00:39	No Additional Comment
11.722	AND69	Anode Assessment - 25-50% Wasted	736009.75	1392604.15	22/04/2023	13:08:25	No Additional Comment
11.844	AND70	Anode Assessment - 25-50% Wasted	735978.76	1392722.87	22/04/2023	13:15:56	No Additional Comment
12.092	AND71	Anode Assessment - 25-50% Wasted	735946.41	1392862.76	22/04/2023	13:31:37	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.946	FJ-BM032	Field Joint - Bitumen Missing	738752.04	1382182.75	17/04/2023	11:18:54	No Additional Comment
0.958	FJ-BM033	Field Joint - Bitumen Missing	738749.38	1382194.68	17/04/2023	11:19:58	No Additional Comment
0.970	FJ-BM034	Field Joint - Bitumen Missing	738746.19	1382206.29	17/04/2023	11:21:03	No Additional Comment
0.983	FJ-BM035	Field Joint - Bitumen Missing	738742.86	1382219.10	17/04/2023	11:22:01	No Additional Comment
0.995	FJ-BM036	Field Joint - Bitumen Missing	738739.54	1382230.46	17/04/2023	11:23:05	No Additional Comment
1.007	FJ-BM037	Field Joint - Bitumen Missing	738736.76	1382242.61	17/04/2023	11:24:09	No Additional Comment
1.021	FJ-BM038	Field Joint - Bitumen Missing	738732.99	1382255.30	17/04/2023	11:25:14	No Additional Comment
1.033	FJ-BM039	Field Joint - Bitumen Missing	738729.30	1382267.50	17/04/2023	11:26:10	No Additional Comment
1.045	FJ-BM040	Field Joint - Bitumen Missing	738725.71	1382279.03	17/04/2023	11:27:14	No Additional Comment
1.057	FJ-BM041	Field Joint - Bitumen Missing	738722.13	1382290.99	17/04/2023	11:27:51	No Additional Comment
1.070	FJ-BM042	Field Joint - Bitumen Missing	738720.72	1382302.97	17/04/2023	11:28:52	No Additional Comment
1.082	FJ-BM043	Field Joint - Bitumen Missing	738717.19	1382315.01	17/04/2023	11:29:39	No Additional Comment
1.098	FJ-BM044	Field Joint - Bitumen Missing	738712.83	1382329.70	17/04/2023	11:30:41	No Additional Comment
1.108	FJ-BM045	Field Joint - Bitumen Missing	738710.41	1382339.70	17/04/2023	11:31:35	No Additional Comment
1.121	FJ-BM046	Field Joint - Bitumen Missing	738707.15	1382351.91	17/04/2023	11:32:27	No Additional Comment
1.133	FJ-BM047	Field Joint - Bitumen Missing	738703.41	1382384.41	17/04/2023	11:33:42	No Additional Comment
1.146	FJ-BM048	Field Joint - Bitumen Missing	738700.51	1382376.62	17/04/2023	11:34:42	No Additional Comment
1.158	FJ-BM049	Field Joint - Bitumen Missing	738697.13	1382388.41	17/04/2023	11:35:34	No Additional Comment
1.171	FJ-BM050	Field Joint - Bitumen Missing	738694.11	1382400.58	17/04/2023	11:37:05	No Additional Comment
1.184	FJ-BM051	Field Joint - Bitumen Missing	738690.65	1382412.68	17/04/2023	11:37:59	No Additional Comment
1.197	FJ-BM052	Field Joint - Bitumen Missing	738687.43	1382425.40	17/04/2023	11:39:14	No Additional Comment
1.209	FJ-BM053	Field Joint - Bitumen Missing	738683.33	1382437.16	17/04/2023	11:40:01	No Additional Comment
1.222	FJ-BM054	Field Joint - Bitumen Missing	738680.99	1382450.29	17/04/2023	11:41:03	No Additional Comment
1.234	FJ-BM055	Field Joint - Bitumen Missing	738676.04	1382461.98	17/04/2023	11:42:24	No Additional Comment
1.247	FJ-BM056	Field Joint - Bitumen Missing	738674.68	1382473.63	17/04/2023	11:43:27	No Additional Comment
1.272	FJ-BM057	Field Joint - Bitumen Missing	738668.24	1382498.25	17/04/2023	11:45:35	No Additional Comment
1.298	FJ-BM058	Field Joint - Bitumen Missing	738661.53	1382523.18	17/04/2023	11:47:26	No Additional Comment
1.311	FJ-BM059	Field Joint - Bitumen Missing	738655.29	1382535.86	17/04/2023	11:48:56	No Additional Comment
1.323	FJ-BM060	Field Joint - Bitumen Missing	738655.95	1382547.63	17/04/2023	11:49:35	No Additional Comment
1.334	FJ-BM061	Field Joint - Bitumen Missing	738653.09	1382558.21	17/04/2023	11:50:20	No Additional Comment
1.348	FJ-BM062	Field Joint - Bitumen Missing	738649.30	1382571.39	17/04/2023	11:51:15	No Additional Comment
1.360	FJ-BM063	Field Joint - Bitumen Missing	738646.35	1382583.27	17/04/2023	11:52:18	No Additional Comment
1.374	FJ-BM064	Field Joint - Bitumen Missing	738643.47	1382596.77	17/04/2023	11:54:55	No Additional Comment
1.386	FJ-BM065	Field Joint - Bitumen Missing	738640.45	1382608.27	17/04/2023	11:56:27	No Additional Comment
1.399	FJ-BM066	Field Joint - Bitumen Missing	738636.69	1382621.07	17/04/2023	11:57:30	No Additional Comment
1.411	FJ-BM067	Field Joint - Bitumen Missing	738633.34	1382633.31	17/04/2023	11:58:24	No Additional Comment
1.424	FJ-BM068	Field Joint - Bitumen Missing	738630.21	1382645.74	17/04/2023	11:59:15	No Additional Comment
1.438	FJ-BM069	Field Joint - Bitumen Missing	738627.13	1382659.19	17/04/2023	12:00:10	No Additional Comment
1.462	FJ-BM070	Field Joint - Bitumen Missing	738620.97	1382682.76	17/04/2023	12:02:01	No Additional Comment
1.476	FJ-BM071	Field Joint - Bitumen Missing	738617.11	1382695.46	17/04/2023	12:03:55	No Additional Comment
1.488	FJ-BM072	Field Joint - Bitumen Missing	738614.62	1382707.69	17/04/2023	12:03:47	No Additional Comment
1.500	FJ-BM073	Field Joint - Bitumen Missing	738611.40	1382719.28	17/04/2023	12:04:29	No Additional Comment

Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
1.525	FJ-BM074	Field Joint - Bitumen Missing	738603.98	1382743.47	17/04/2023	13:54:27	No Additional Comment
1.538	FJ-BM075	Field Joint - Bitumen Missing	738601.13	1382755.20	17/04/2023	13:55:27	No Additional Comment
1.550	FJ-BM076	Field Joint - Bitumen Missing	738598.01	1382767.26	17/04/2023	13:56:29	No Additional Comment
1.562	FJ-BM077	Field Joint - Bitumen Missing	738595.30	1382779.23	17/04/2023	13:57:34	No Additional Comment
1.601	FJ-BM078	Field Joint - Bitumen Missing	738585.60	1382816.31	17/04/2023	14:15:40	No Additional Comment
1.614	FJ-BM079	Field Joint - Bitumen Missing	738582.37	1382828.90	17/04/2023	14:16:46	No Additional Comment
1.715	FJ-BM080	Field Joint - Bitumen Missing	738555.21	1382926.92	17/04/2023	14:45:45	No Additional Comment
1.754	FJ-BM081	Field Joint - Bitumen Missing	738545.84	1382964.93	17/04/2023	14:48:20	No Additional Comment
1.779	FJ-BM082	Field Joint - Bitumen Missing	738539.31	1382988.25	17/04/2023	14:50:16	No Additional Comment
1.791	FJ-BM083	Field Joint - Bitumen Missing	738536.29	1382999.72	17/04/2023	14:51:26	No Additional Comment
1.817	FJ-BM084	Field Joint - Bitumen Missing	738529.37	1383024.90	17/04/2023	14:53:30	No Additional Comment
1.855	FJ-BM085	Field Joint - Bitumen Missing	738520.21	1383062.41	17/04/2023	14:56:33	No Additional Comment
1.893	FJ-BM086	Field Joint - Bitumen Missing	738511.22	1383098.79	17/04/2023	15:00:55	No Additional Comment
1.918	FJ-BM087	Field Joint - Bitumen Missing	738505.11	1383123.45	17/04/2023	15:19:44	No Additional Comment
1.931	FJ-BM088	Field Joint - Bitumen Missing	738495.70	1383135.69	17/04/2023	15:20:44	No Additional Comment
1.944	FJ-BM089	Field Joint - Bitumen Missing	738498.24	1383148.18	17/04/2023	15:21:56	No Additional Comment
1.957	FJ-BM090	Field Joint - Bitumen Missing	738495.73	1383160.74	17/04/2023	15:23:16	No Additional Comment
1.970	FJ-BM091	Field Joint - Bitumen Missing	738492.59	1383173.29	17/04/2023	15:39:11	No Additional Comment
1.994	FJ-BM092	Field Joint - Bitumen Missing	738485.70	1383197.26	17/04/2023	15:40:56	No Additional Comment
2.008	FJ-BM093	Field Joint - Bitumen Missing	738482.49	1383210.31	17/04/2023	15:42:06	No Additional Comment
2.020	FJ-BM094	Field Joint - Bitumen Missing	738478.95	1383222.10	17/04/2023	15:43:20	No Additional Comment
2.033	FJ-BM095	Field Joint - Bitumen Missing	738475.97	1383234.44	17/04/2023	15:44:28	No Additional Comment
2.045	FJ-BM096	Field Joint - Bitumen Missing	738472.85	1383246.67	17/04/2023	15:45:43	No Additional Comment
2.071	FJ-BM097	Field Joint - Bitumen Missing	738466.31	1383271.44	17/04/2023	15:50:30	No Additional Comment
2.084	FJ-BM098	Field Joint - Bitumen Missing	738462.64	1383284.24	17/04/2023	15:51:29	No Additional Comment
2.097	FJ-BM099	Field Joint - Bitumen Missing	738459.42	1383296.52	17/04/2023	15:52:25	No Additional Comment
2.110	FJ-BM100	Field Joint - Bitumen Missing	738455.79	1383308.75	17/04/2023	15:53:19	No Additional Comment
2.123	FJ-BM101	Field Joint - Bitumen Missing	738452.94	1383321.12	17/04/2023	15:54:47	No Additional Comment
2.135	FJ-BM102	Field Joint - Bitumen Missing	738449.63	1383332.98	17/04/2023	15:55:44	No Additional Comment
2.148	FJ-BM103	Field Joint - Bitumen Missing	738446.48	1383345.29	17/04/2023	15:57:29	No Additional Comment
2.160	FJ-BM104	Field Joint - Bitumen Missing	738443.27	1383357.55	17/04/2023	15:58:22	No Additional Comment
2.186	FJ-BM105	Field Joint - Bitumen Missing	738436.74	1383382.73	17/04/2023	16:02:07	No Additional Comment
2.212	FJ-BM106	Field Joint - Bitumen Missing	738431.05	1383408.03	18/04/2023	08:29:41	No Additional Comment
2.262	FJ-BM107	Field Joint - Bitumen Missing	738417.98	1383456.06	18/04/2023	08:33:41	No Additional Comment
2.326	FJ-BM108	Field Joint - Bitumen Missing	738402.22	1383518.05	18/04/2023	08:38:57	No Additional Comment
2.351	FJ-BM109	Field Joint - Bitumen Missing	738395.65	1383542.50	18/04/2023	08:41:26	No Additional Comment
2.364	FJ-BM110	Field Joint - Bitumen Missing	738392.31	1383554.58	18/04/2023	08:42:40	No Additional Comment
2.376	FJ-BM111	Field Joint - Bitumen Missing	738389.45	1383566.18	18/04/2023	08:44:14	No Additional Comment
2.388	FJ-BM112	Field Joint - Bitumen Missing	738386.45	1383578.50	18/04/2023	08:45:22	No Additional Comment
2.402	FJ-BM113	Field Joint - Bitumen Missing	738382.17	1383591.26	18/04/2023	09:02:45	No Additional Comment
2.414	FJ-BM114	Field Joint - Bitumen Missing	738379.45	1383603.37	18/04/2023	09:03:42	No Additional Comment
2.427	FJ-BM115	Field Joint - Bitumen Missing	738375.91	1383615.42	18/04/2023	09:05:00	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
3.163	FJ-BM158	Field Joint - Bitumen Missing	738187.42	1384326.91	18/04/2023	11:06:43	No Additional Comment
3.176	FJ-BM159	Field Joint - Bitumen Missing	738184.41	1384339.27	18/04/2023	11:07:42	No Additional Comment
3.188	FJ-BM160	Field Joint - Bitumen Missing	738181.12	1384351.41	18/04/2023	11:08:26	No Additional Comment
3.200	FJ-BM161	Field Joint - Bitumen Missing	738177.45	1384362.99	18/04/2023	11:09:29	No Additional Comment
3.212	FJ-BM162	Field Joint - Bitumen Missing	738174.36	1384374.74	18/04/2023	11:10:22	No Additional Comment
3.239	FJ-BM163	Field Joint - Bitumen Missing	738167.54	1384400.50	18/04/2023	11:11:57	No Additional Comment
3.252	FJ-BM164	Field Joint - Bitumen Missing	738164.61	1384412.85	18/04/2023	11:12:48	No Additional Comment
3.264	FJ-BM165	Field Joint - Bitumen Missing	738161.34	1384424.41	18/04/2023	11:13:45	No Additional Comment
3.276	FJ-BM166	Field Joint - Bitumen Missing	738158.40	1384436.55	18/04/2023	11:14:35	No Additional Comment
3.288	FJ-BM167	Field Joint - Bitumen Missing	738155.38	1384447.95	18/04/2023	11:30:25	No Additional Comment
3.312	FJ-BM168	Field Joint - Bitumen Missing	738149.30	1384471.14	18/04/2023	11:31:41	No Additional Comment
3.325	FJ-BM169	Field Joint - Bitumen Missing	738145.68	1384483.12	18/04/2023	11:32:36	No Additional Comment
3.337	FJ-BM170	Field Joint - Bitumen Missing	738142.71	1384495.60	18/04/2023	11:33:28	No Additional Comment
3.350	FJ-BM171	Field Joint - Bitumen Missing	738139.09	1384507.47	18/04/2023	11:34:22	No Additional Comment
3.363	FJ-BM172	Field Joint - Bitumen Missing	738135.88	1384519.98	18/04/2023	11:35:01	No Additional Comment
3.376	FJ-BM173	Field Joint - Bitumen Missing	738132.61	1384532.52	18/04/2023	11:35:46	No Additional Comment
3.401	FJ-BM174	Field Joint - Bitumen Missing	738126.49	1384557.22	18/04/2023	11:37:36	No Additional Comment
3.414	FJ-BM175	Field Joint - Bitumen Missing	738122.86	1384569.95	18/04/2023	11:40:05	No Additional Comment
3.426	FJ-BM176	Field Joint - Bitumen Missing	738119.67	1384581.13	18/04/2023	11:40:46	No Additional Comment
3.452	FJ-BM177	Field Joint - Bitumen Missing	738114.12	1384606.31	18/04/2023	11:42:37	No Additional Comment
3.502	FJ-BM178	Field Joint - Bitumen Missing	738100.80	1384655.14	18/04/2023	11:45:27	No Additional Comment
3.516	FJ-BM179	Field Joint - Bitumen Missing	738097.33	1384668.53	18/04/2023	11:46:13	No Additional Comment
3.527	FJ-BM180	Field Joint - Bitumen Missing	738094.74	1384679.10	18/04/2023	11:46:55	No Additional Comment
3.541	FJ-BM181	Field Joint - Bitumen Missing	738091.06	1384692.95	18/04/2023	11:50:54	No Additional Comment
3.566	FJ-BM182	Field Joint - Bitumen Missing	738085.95	1384716.61	18/04/2023	11:52:26	No Additional Comment
3.578	FJ-BM183	Field Joint - Bitumen Missing	738082.55	1384728.67	18/04/2023	11:53:13	No Additional Comment
3.591	FJ-BM184	Field Joint - Bitumen Missing	738079.28	1384741.72	18/04/2023	11:54:05	No Additional Comment
3.604	FJ-BM185	Field Joint - Bitumen Missing	738076.00	1384753.81	18/04/2023	11:55:04	No Additional Comment
3.617	FJ-BM186	Field Joint - Bitumen Missing	738073.10	1384766.49	18/04/2023	11:55:52	No Additional Comment
3.630	FJ-BM187	Field Joint - Bitumen Missing	738069.64	1384778.81	18/04/2023	11:56:36	No Additional Comment
3.655	FJ-BM188	Field Joint - Bitumen Missing	738063.33	1384802.79	18/04/2023	11:57:14	No Additional Comment
3.655	FJ-BM189	Field Joint - Bitumen Missing	738063.78	1384802.94	18/04/2023	11:57:55	No Additional Comment
3.687	FJ-BM192	Field Joint - Bitumen Missing	738059.98	1384814.82	18/04/2023	11:59:12	No Additional Comment
3.680	FJ-BM191	Field Joint - Bitumen Missing	738057.47	1384827.38	18/04/2023	12:00:05	No Additional Comment
3.690	FJ-BM192	Field Joint - Bitumen Missing	738055.10	1384837.66	18/04/2023	12:07:05	No Additional Comment
3.703	FJ-BM193	Field Joint - Bitumen Missing	738051.75	1384850.27	18/04/2023	12:08:05	No Additional Comment
3.716	FJ-BM194	Field Joint - Bitumen Missing	738048.44	1384862.01	18/04/2023	12:39:05	No Additional Comment
3.729	FJ-BM195	Field Joint - Bitumen Missing	738044.69	1384874.92	18/04/2023	13:30:00	No Additional Comment
3.742	FJ-BM196	Field Joint - Bitumen Missing	738041.29	1384887.36	18/04/2023	13:30:52	No Additional Comment
3.754	FJ-BM197	Field Joint - Bitumen Missing	738038.73	1384899.42	18/04/2023	13:31:48	No Additional Comment
3.766	FJ-BM198	Field Joint - Bitumen Missing	738036.01	1384911.15	18/04/2023	13:32:41	No Additional Comment
3.805	FJ-BM199	Field Joint - Bitumen Missing	738025.67	1384948.77	18/04/2023	13:35:45	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
2.439	FJ-BM116	Field Joint - Bitumen Missing	738373.12	1383627.83	18/04/2023	09:06:03	No Additional Comment
2.452	FJ-BM117	Field Joint - Bitumen Missing	738370.34	1383639.80	18/04/2023	09:07:04	No Additional Comment
2.478	FJ-BM118	Field Joint - Bitumen Missing	738362.81	1383664.49	18/04/2023	09:08:57	No Additional Comment
2.490	FJ-BM119	Field Joint - Bitumen Missing	738359.61	1383676.60	18/04/2023	09:09:49	No Additional Comment
2.502	FJ-BM120	Field Joint - Bitumen Missing	738356.03	1383688.32	18/04/2023	09:10:34	No Additional Comment
2.515	FJ-BM121	Field Joint - Bitumen Missing	738353.14	1383700.89	18/04/2023	09:11:23	No Additional Comment
2.528	FJ-BM122	Field Joint - Bitumen Missing	738349.03	1383713.18	18/04/2023	09:36:25	No Additional Comment
2.553	FJ-BM123	Field Joint - Bitumen Missing	738342.64	1383737.43	18/04/2023	09:38:36	No Additional Comment
2.579	FJ-BM124	Field Joint - Bitumen Missing	738336.44	1383762.61	18/04/2023	09:40:15	No Additional Comment
2.605	FJ-BM125	Field Joint - Bitumen Missing	738329.48	1383787.24	18/04/2023	09:41:51	No Additional Comment
2.618	FJ-BM126	Field Joint - Bitumen Missing	738326.64	1383799.99	18/04/2023	09:42:50	No Additional Comment
2.643	FJ-BM127	Field Joint - Bitumen Missing	738320.19	1383823.98	18/04/2023	09:44:21	No Additional Comment
2.655	FJ-BM128	Field Joint - Bitumen Missing	738317.39	1383835.54	18/04/2023	09:46:17	No Additional Comment
2.668	FJ-BM129	Field Joint - Bitumen Missing	738313.77	1383848.43	18/04/2023	09:47:00	No Additional Comment
2.682	FJ-BM130	Field Joint - Bitumen Missing	738310.20	1383861.72	18/04/2023	09:47:50	No Additional Comment
2.694	FJ-BM131	Field Joint - Bitumen Missing	738307.32	1383873.99	18/04/2023	09:48:48	No Additional Comment
2.707	FJ-BM132	Field Joint - Bitumen Missing	738304.33	1383885.91	18/04/2023	09:49:39	No Additional Comment
2.719	FJ-BM133	Field Joint - Bitumen Missing	738300.95	1383897.93	18/04/2023	09:50:16	No Additional Comment
2.733	FJ-BM134	Field Joint - Bitumen Missing	738297.78	1383911.04	18/04/2023	09:51:05	No Additional Comment
2.745	FJ-BM135	Field Joint - Bitumen Missing	738294.29	1383922.87	18/04/2023	09:51:59	No Additional Comment
2.768	FJ-BM136	Field Joint - Bitumen Missing	738288.00	1383945.17	18/04/2023	10:33:58	No Additional Comment
2.794	FJ-BM137	Field Joint - Bitumen Missing	738281.69	1383970.84	18/04/2023	10:36:34	No Additional Comment
2.821	FJ-BM138	Field Joint - Bitumen Missing	738275.29	1383996.17	18/04/2023	10:38:04	No Additional Comment
2.833	FJ-BM139	Field Joint - Bitumen Missing	738272.01	1384007.84	18/04/2023	10:38:53	No Additional Comment
2.846	FJ-BM140	Field Joint - Bitumen Missing	738269.49	1384020.46	18/04/2023	10:39:45	No Additional Comment
2.858	FJ-BM141	Field Joint - Bitumen Missing	738265.86	1384032.53	18/04/2023	10:41:17	No Additional Comment
2.898	FJ-BM142	Field Joint - Bitumen Missing	738253.83	1384081.26	18/04/2023	10:44:43	No Additional Comment
2.921	FJ-BM143	Field Joint - Bitumen Missing	738250.36	1384093.20	18/04/2023	10:45:39	No Additional Comment
2.934	FJ-BM144	Field Joint - Bitumen Missing	738247.07	1384106.22	18/04/2023	10:46:25	No Additional Comment
2.947	FJ-BM145	Field Joint - Bitumen Missing	738244.09	1384118.38	18/04/2023	10:47:14	No Additional Comment
2.959	FJ-BM146	Field Joint - Bitumen Missing	738240.82	1384130.48	18/04/2023	10:48:04	No Additional Comment
2.971	FJ-BM147	Field Joint - Bitumen Missing	738237.64	1384142.29	18/04/2023	10:48:49	No Additional Comment
2.987	FJ-BM148	Field Joint - Bitumen Missing	738234.29	1384166.55	18/04/2023	10:50:19	No Additional Comment
3.010	FJ-BM149	Field Joint - Bitumen Missing	738227.46	1384179.65	18/04/2023	10:51:06	No Additional Comment

Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
4.538	FJ-BM242	Field Joint - Bitumen Missing	737839.15	1385657.49	18/04/2023	14:38:03	No Additional Comment
4.538	FJ-BM243	Field Joint - Bitumen Missing	737839.06	1385657.76	18/04/2023	14:38:05	net
4.551	FJ-BM244	Field Joint - Bitumen Missing	737835.52	1385669.84	18/04/2023	14:57:38	No Additional Comment
4.564	FJ-BM245	Field Joint - Bitumen Missing	737831.80	1385682.25	18/04/2023	14:58:52	No Additional Comment
4.576	FJ-BM246	Field Joint - Bitumen Missing	737829.14	1385693.81	18/04/2023	14:59:38	No Additional Comment
4.588	FJ-BM247	Field Joint - Bitumen Missing	737826.01	1385705.25	18/04/2023	15:00:20	No Additional Comment
4.600	FJ-BM248	Field Joint - Bitumen Missing	737823.20	1385717.15	18/04/2023	15:01:01	No Additional Comment
4.612	FJ-BM249	Field Joint - Bitumen Missing	737819.83	1385728.37	18/04/2023	15:01:54	No Additional Comment
4.624	FJ-BM250	Field Joint - Bitumen Missing	737817.33	1385740.36	18/04/2023	15:02:54	No Additional Comment
4.637	FJ-BM251	Field Joint - Bitumen Missing	737814.01	1385752.54	18/04/2023	15:03:39	No Additional Comment
4.649	FJ-BM252	Field Joint - Bitumen Missing	737810.73	1385764.65	18/04/2023	15:04:26	No Additional Comment
4.662	FJ-BM253	Field Joint - Bitumen Missing	737807.43	1385777.22	18/04/2023	15:05:28	No Additional Comment
4.674	FJ-BM254	Field Joint - Bitumen Missing	737804.68	1385788.47	18/04/2023	15:07:00	No Additional Comment
4.686	FJ-BM255	Field Joint - Bitumen Missing	737801.47	1385800.14	18/04/2023	15:07:51	No Additional Comment
4.697	FJ-BM256	Field Joint - Bitumen Missing	737798.65	1385811.53	18/04/2023	15:08:38	No Additional Comment
4.710	FJ-BM257	Field Joint - Bitumen Missing	737794.90	1385823.85	18/04/2023	15:09:26	No Additional Comment
4.722	FJ-BM258	Field Joint - Bitumen Missing	737791.78	1385835.23	18/04/2023	15:10:44	No Additional Comment
4.735	FJ-BM259	Field Joint - Bitumen Missing	737788.88	1385848.11	18/04/2023	15:11:59	No Additional Comment
4.748	FJ-BM260	Field Joint - Bitumen Missing	737785.70	1385860.49	18/04/2023	15:12:45	No Additional Comment
4.760	FJ-BM261	Field Joint - Bitumen Missing	737782.52	1385872.34	18/04/2023	15:13:31	No Additional Comment
4.773	FJ-BM262	Field Joint - Bitumen Missing	737779.78	1385884.59	18/04/2023	15:14:24	No Additional Comment
4.785	FJ-BM263	Field Joint - Bitumen Missing	737775.93	1385896.08	18/04/2023	15:15:11	No Additional Comment
4.797	FJ-BM264	Field Joint - Bitumen Missing	737772.97	1385907.99	18/04/2023	15:16:50	No Additional Comment
4.810	FJ-BM265	Field Joint - Bitumen Missing	737770.08	1385920.06	18/04/2023	15:17:43	No Additional Comment
4.822	FJ-BM266	Field Joint - Bitumen Missing	737766.64	1385931.77	18/04/2023	15:18:49	No Additional Comment
4.835	FJ-BM267	Field Joint - Bitumen Missing	737763.58	1385944.40	18/04/2023	15:19:40	No Additional Comment
4.848	FJ-BM268	Field Joint - Bitumen Missing	737760.50	1385956.71	18/04/2023	15:20:33	No Additional Comment
4.860	FJ-BM269	Field Joint - Bitumen Missing	737757.34	1385968.80	18/04/2023	15:21:25	No Additional Comment
4.873	FJ-BM270	Field Joint - Bitumen Missing	737754.25	1385981.37	18/04/2023	15:22:22	No Additional Comment
4.885	FJ-BM271	Field Joint - Bitumen Missing	737750.94	1385992.75	18/04/2023	15:23:06	No Additional Comment
4.897	FJ-BM272	Field Joint - Bitumen Missing	737748.22	1386004.30	18/04/2023	15:23:50	No Additional Comment
4.909	FJ-BM273	Field Joint - Bitumen Missing	737745.00	1386016.34	18/04/2023	15:24:35	No Additional Comment
4.935	FJ-BM274	Field Joint - Bitumen Missing	737738.73	1386040.98	18/04/2023	15:28:39	No Additional Comment
4.949	FJ-BM275	Field Joint - Bitumen Missing	737734.70	1386055.05	18/04/2023	15:29:25	No Additional Comment
4.959	FJ-BM276	Field Joint - Bitumen Missing	737732.45	1386064.61	18/04/2023	15:30:18	No Additional Comment
4.971	FJ-BM277	Field Joint - Bitumen Missing	737729.65	1386076.15	18/04/2023	15:31:03	No Additional Comment
4.997	FJ-BM278	Field Joint - Bitumen Missing	737722.71	1386100.93	18/04/2023	15:32:35	No Additional Comment
5.020	FJ-BM279	Field Joint - Bitumen Missing	737716.78	1386123.99	18/04/2023	15:34:30	No Additional Comment
5.032	FJ-BM280	Field Joint - Bitumen Missing	737713.79	1386135.40	18/04/2023	15:35:31	No Additional Comment
5.045	FJ-BM281	Field Joint - Bitumen Missing	737710.29	1386147.68	18/04/2023	15:36:28	No Additional Comment
5.067	FJ-BM282	Field Joint - Bitumen Missing	737707.21	1386159.57	18/04/2023	15:37:20	No Additional Comment
5.119	FJ-BM283	Field Joint - Bitumen Missing	737691.69	1386219.65	18/04/2023	15:41:24	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
5.786	FJ-BM326	Field Joint - Bitumen Missing	737522.07	1386864.69	19/04/2023	09:22:30	No Additional Comment
5.799	FJ-BM327	Field Joint - Bitumen Missing	737518.64	1386877.02	19/04/2023	09:23:03	No Additional Comment
5.811	FJ-BM328	Field Joint - Bitumen Missing	737515.28	1386888.64	19/04/2023	09:23:37	No Additional Comment
5.823	FJ-BM329	Field Joint - Bitumen Missing	737512.26	1386900.01	19/04/2023	09:24:12	No Additional Comment
5.848	FJ-BM330	Field Joint - Bitumen Missing	737506.32	1386924.32	19/04/2023	09:25:49	No Additional Comment
5.873	FJ-BM331	Field Joint - Bitumen Missing	737499.80	1386948.35	19/04/2023	09:27:05	No Additional Comment
5.884	FJ-BM332	Field Joint - Bitumen Missing	737496.37	1386959.37	19/04/2023	09:27:42	No Additional Comment
5.910	FJ-BM333	Field Joint - Bitumen Missing	737490.53	1386984.13	19/04/2023	09:28:57	No Additional Comment
5.946	FJ-BM334	Field Joint - Bitumen Missing	737480.62	1387019.09	19/04/2023	09:30:20	No Additional Comment
5.958	FJ-BM335	Field Joint - Bitumen Missing	737478.43	1387031.20	19/04/2023	09:31:01	No Additional Comment
5.974	FJ-BM336	Field Joint - Bitumen Missing	737474.26	1387045.70	19/04/2023	09:31:39	No Additional Comment
5.983	FJ-BM337	Field Joint - Bitumen Missing	737471.83	1387055.21	19/04/2023	09:32:15	No Additional Comment
5.996	FJ-BM338	Field Joint - Bitumen Missing	737468.66	1387067.43	19/04/2023	09:32:46	No Additional Comment
6.009	FJ-BM339	Field Joint - Bitumen Missing	737465.07	1387079.77	19/04/2023	09:33:40	No Additional Comment
6.021	FJ-BM340	Field Joint - Bitumen Missing	737462.40	1387092.06	19/04/2023	09:34:25	No Additional Comment
6.059	FJ-BM341	Field Joint - Bitumen Missing	737452.13	1387127.92	19/04/2023	09:35:59	No Additional Comment
6.058	FJ-BM342	Field Joint - Bitumen Missing	737453.28	1387127.60	19/04/2023	09:36:31	No Additional Comment
6.071	FJ-BM343	Field Joint - Bitumen Missing	737450.12	1387139.59	19/04/2023	09:37:56	No Additional Comment
6.083	FJ-BM344	Field Joint - Bitumen Missing	737446.80	1387152.02	19/04/2023	09:38:39	No Additional Comment
6.097	FJ-BM345	Field Joint - Bitumen Missing	737443.58	1387165.17	19/04/2023	09:39:22	No Additional Comment
6.121	FJ-BM346	Field Joint - Bitumen Missing	737437.37	1387188.22	19/04/2023	09:40:54	No Additional Comment
6.133	FJ-BM347	Field Joint - Bitumen Missing	737433.81	1387200.40	19/04/2023	09:41:32	No Additional Comment
6.145	FJ-BM348	Field Joint - Bitumen Missing	737430.92	1387211.81	19/04/2023	09:42:08	No Additional Comment
6.157	FJ-BM349	Field Joint - Bitumen Missing	737428.13	1387223.58	19/04/2023	09:45:17	No Additional Comment
6.170	FJ-BM350	Field Joint - Bitumen Missing	737425.67	1387236.29	19/04/2023	09:46:01	No Additional Comment
6.183	FJ-BM351	Field Joint - Bitumen Missing	737421.35	1387248.09	19/04/2023	09:46:43	No Additional Comment
6.194	FJ-BM352	Field Joint - Bitumen Missing	737419.54	1387258.86	19/04/2023	09:47:29	No Additional Comment
6.207	FJ-BM353	Field Joint - Bitumen Missing	737414.54	1387270.92	19/04/2023	09:48:04	No Additional Comment
6.219	FJ-BM354	Field Joint - Bitumen Missing	737412.25	1387283.47	19/04/2023	09:48:51	No Additional Comment
6.231	FJ-BM355	Field Joint - Bitumen Missing	737408.83	1387294.76	19/04/2023	09:50:31	No Additional Comment
6.244	FJ-BM356	Field Joint - Bitumen Missing	737405.60	1387307.78	19/04/2023	09:51:14	No Additional Comment
6.256	FJ-BM357	Field Joint - Bitumen Missing	737402.45	1387319.08	19/04/2023	09:51:50	No Additional Comment
6.269	FJ-BM358	Field Joint - Bitumen Missing	737399.23	1387331.52	19/04/2023	09:52:28	No Additional Comment
6.282	FJ-BM359	Field Joint - Bitumen Missing	737396.12	1387343.61	19/04/2023	09:53:53	No Additional Comment
6.294	FJ-BM360	Field Joint - Bitumen Missing	737392.68	1387355.38	19/04/2023	09:54:33	No Additional Comment
6.306	FJ-BM361	Field Joint - Bitumen Missing	737389.58	1387367.24	19/04/2023	09:55:17	No Additional Comment
6.319	FJ-BM362	Field Joint - Bitumen Missing	737386.49	1387379.53	19/04/2023	09:55:57	No Additional Comment
6.331	FJ-BM363	Field Joint - Bitumen Missing	737383.69	1387391.73	19/04/2023	09:56:39	No Additional Comment
6.344	FJ-BM364	Field Joint - Bitumen Missing	737380.91	1387404.07	19/04/2023	09:57:18	No Additional Comment
6.356	FJ-BM365	Field Joint - Bitumen Missing	737376.67	1387415.93	19/04/2023	09:57:56	No Additional Comment
6.369	FJ-BM366	Field Joint - Bitumen Missing	737373.64	1387427.82	19/04/2023	09:58:31	No Additional Comment
6.405	FJ-BM367	Field Joint - Bitumen Missing	737364.26	1387463.04	19/04/2023	10:01:19	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
5.169	FJ-BM284	Field Joint - Bitumen Missing	737679.09	1386267.71	18/04/2023	15:44:46	No Additional Comment
5.181	FJ-BM285	Field Joint - Bitumen Missing	737675.89	1386279.35	18/04/2023	15:45:33	No Additional Comment
5.206	FJ-BM286	Field Joint - Bitumen Missing	737669.46	1386303.53	19/04/2023	08:09:38	No Additional Comment
5.243	FJ-BM287	Field Joint - Bitumen Missing	737660.63	1386339.58	19/04/2023	08:11:57	No Additional Comment
5.255	FJ-BM288	Field Joint - Bitumen Missing	737657.38	1386351.02	19/04/2023	08:12:38	No Additional Comment
5.268	FJ-BM289	Field Joint - Bitumen Missing	737654.06	1386363.18	19/04/2023	08:13:23	No Additional Comment
5.280	FJ-BM290	Field Joint - Bitumen Missing	737650.81	1386375.05	19/04/2023	08:14:13	No Additional Comment
5.292	FJ-BM291	Field Joint - Bitumen Missing	737647.92	1386386.97	19/04/2023	08:15:25	No Additional Comment
5.305	FJ-BM292	Field Joint - Bitumen Missing	737644.65	1386398.79	19/04/2023	08:16:39	No Additional Comment
5.330	FJ-BM293	Field Joint - Bitumen Missing	737638.41	1386423.12	19/04/2023	08:18:25	No Additional Comment
5.344	FJ-BM294	Field Joint - Bitumen Missing	737634.83	1386436.58	19/04/2023	08:19:26	No Additional Comment
5.380	FJ-BM295	Field Joint - Bitumen Missing	737623.69	1386471.31	19/04/2023	08:22:36	No Additional Comment
5.380	FJ-BM296	Field Joint - Bitumen Missing	737625.68	1386472.16	19/04/2023	08:23:33	No Additional Comment
5.392	FJ-BM297	Field Joint - Bitumen Missing	737622.77	1386483.87	19/04/2023	08:39:26	No Additional Comment
5.405	FJ-BM298	Field Joint - Bitumen Missing	737619.24	1386496.23	19/04/2023	08:40:09	No Additional Comment
5.417	FJ-BM299	Field Joint - Bitumen Missing	737616.17	1386507.53	19/04/2023	08:46:15	No Additional Comment
5.430	FJ-BM300	Field Joint - Bitumen Missing	737612.65	1386519.71	19/04/2023	08:46:49	No Additional Comment
5.442	FJ-BM301	Field Joint - Bitumen Missing	737609.38	1386531.52	19/04/2023	08:47:28	No Additional Comment
5.466	FJ-BM302	Field Joint - Bitumen Missing	737603.47	1386555.34	19/04/2023	08:48:43	No Additional Comment
5.480	FJ-BM303	Field Joint - Bitumen Missing	737599.68	1386568.02	19/04/2023	08:50:22	No Additional Comment
5.491	FJ-BM304	Field Joint - Bitumen Missing	737597.22	1386579.00	19/04/2023	08:51:13	No Additional Comment
5.503	FJ-BM305	Field Joint - Bitumen Missing	737594.20	1386591.10	19/04/2023	08:52:06	No Additional Comment
5.516	FJ-BM306	Field Joint - Bitumen Missing	737591.11	1386603.16	19/04/2023	08:52:48	No Additional Comment
5.552	FJ-BM307	Field Joint - Bitumen Missing	737580.28	1386638.13	19/04/2023	08:56:19	No Additional Comment
5.565	FJ-BM308	Field Joint - Bitumen Missing	737577.93	1386650.29	19/04/2023	08:57:50	No Additional Comment
5.578	FJ-BM309	Field Joint - Bitumen Missing	737574.61	1386662.56	19/04/2023	08:58:42	No Additional Comment
5.589	FJ-BM310	Field Joint - Bitumen Missing	737571.73	1386674.14	19/04/2023	08:59:24	No Additional Comment
5.603	FJ-BM311	Field Joint - Bitumen Missing	737568.22	1386686.85	19/04/2023	09:00:02	No Additional Comment
5.615	FJ-BM312	Field Joint - Bitumen Missing	737565.30	1386698.58	19/04/2023	09:00:36	No Additional Comment
5.627	FJ-BM313	Field Joint - Bitumen Missing	737561.98	1386710.68	19/04/2023	09:01:11	No Additional Comment
5.639	FJ-BM314	Field Joint - Bitumen Missing	737558.61	1386722.40	19/04/2023	09:01:50	No Additional Comment
5.652	FJ-BM315	Field Joint - Bitumen Missing	737555.69	1386734.62	19/04/2023	09:02:28	No Additional Comment
5.664	FJ-BM316	Field Joint - Bitumen Missing	737552.96	1386745.87	19/04/2023	09:03:19	No Additional Comment
5.677	FJ-BM317	Field Joint - Bitumen Missing	737549.63	1386758.67	19/04/2023	09:15:08	No Additional Comment

Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
7.017	FJ-BM410	Field Joint - Bitumen Missing	737207.23	1388054.81	19/04/2023	11:08:37	No Additional Comment
7.021	FJ-BM411	Field Joint - Bitumen Missing	737206.48	1388057.90	19/04/2023	11:10:12	No Additional Comment
7.033	FJ-BM412	Field Joint - Bitumen Missing	737203.56	1388070.04	19/04/2023	11:10:55	No Additional Comment
7.045	FJ-BM413	Field Joint - Bitumen Missing	737200.48	1388082.04	19/04/2023	11:11:43	No Additional Comment
7.058	FJ-BM414	Field Joint - Bitumen Missing	737197.33	1388094.03	19/04/2023	11:12:25	No Additional Comment
7.070	FJ-BM415	Field Joint - Bitumen Missing	737193.79	1388106.10	19/04/2023	11:13:05	No Additional Comment
7.082	FJ-BM416	Field Joint - Bitumen Missing	737190.68	1388117.72	19/04/2023	11:13:44	No Additional Comment
7.091	FJ-BM417	Field Joint - Bitumen Missing	737189.07	1388126.46	19/04/2023	11:14:18	No Additional Comment
7.095	FJ-BM418	Field Joint - Bitumen Missing	737187.95	1388129.73	19/04/2023	11:14:40	No Additional Comment
7.108	FJ-BM419	Field Joint - Bitumen Missing	737184.58	1388142.59	19/04/2023	11:15:27	No Additional Comment
7.132	FJ-BM420	Field Joint - Bitumen Missing	737178.51	1388165.90	19/04/2023	11:16:37	No Additional Comment
7.144	FJ-BM421	Field Joint - Bitumen Missing	737175.92	1388177.63	19/04/2023	11:34:07	No Additional Comment
7.157	FJ-BM422	Field Joint - Bitumen Missing	737172.40	1388189.78	19/04/2023	11:35:07	No Additional Comment
7.177	FJ-BM423	Field Joint - Bitumen Missing	737167.39	1388208.89	19/04/2023	11:35:39	No Additional Comment
7.181	FJ-BM424	Field Joint - Bitumen Missing	737166.37	1388213.72	19/04/2023	11:36:20	No Additional Comment
7.196	FJ-BM425	Field Joint - Bitumen Missing	737162.73	1388227.70	19/04/2023	11:37:00	No Additional Comment
7.207	FJ-BM426	Field Joint - Bitumen Missing	737159.13	1388238.03	19/04/2023	11:37:44	No Additional Comment
7.219	FJ-BM427	Field Joint - Bitumen Missing	737156.62	1388250.41	19/04/2023	11:38:23	No Additional Comment
7.241	FJ-BM428	Field Joint - Bitumen Missing	737149.25	1388270.71	19/04/2023	13:14:15	No Additional Comment
7.244	FJ-BM429	Field Joint - Bitumen Missing	737148.81	1388274.22	19/04/2023	13:14:53	No Additional Comment
7.257	FJ-BM430	Field Joint - Bitumen Missing	737146.84	1388286.33	19/04/2023	13:15:35	No Additional Comment
7.269	FJ-BM431	Field Joint - Bitumen Missing	737143.95	1388298.82	19/04/2023	13:16:28	No Additional Comment
7.281	FJ-BM432	Field Joint - Bitumen Missing	737140.60	1388310.18	19/04/2023	13:17:02	No Additional Comment
7.295	FJ-BM433	Field Joint - Bitumen Missing	737137.07	1388323.51	19/04/2023	13:17:41	No Additional Comment
7.306	FJ-BM434	Field Joint - Bitumen Missing	737134.55	1388333.90	19/04/2023	13:18:18	No Additional Comment
7.318	FJ-BM435	Field Joint - Bitumen Missing	737131.15	1388346.07	19/04/2023	13:18:58	No Additional Comment
7.331	FJ-BM436	Field Joint - Bitumen Missing	737128.19	1388358.02	19/04/2023	13:19:25	No Additional Comment
7.343	FJ-BM437	Field Joint - Bitumen Missing	737124.71	1388369.84	19/04/2023	13:19:58	No Additional Comment
7.356	FJ-BM438	Field Joint - Bitumen Missing	737121.89	1388382.36	19/04/2023	13:20:31	No Additional Comment
7.368	FJ-BM439	Field Joint - Bitumen Missing	737118.35	1388394.41	19/04/2023	13:21:08	No Additional Comment
7.381	FJ-BM440	Field Joint - Bitumen Missing	737115.22	1388406.36	19/04/2023	13:21:39	No Additional Comment
7.393	FJ-BM441	Field Joint - Bitumen Missing	737111.63	1388418.01	19/04/2023	13:22:30	No Additional Comment
7.405	FJ-BM442	Field Joint - Bitumen Missing	737109.01	1388429.31	19/04/2023	13:23:05	No Additional Comment
7.430	FJ-BM443	Field Joint - Bitumen Missing	737102.85	1388453.68	19/04/2023	13:24:16	No Additional Comment
7.442	FJ-BM444	Field Joint - Bitumen Missing	737099.77	1388465.07	19/04/2023	13:24:54	No Additional Comment
7.454	FJ-BM445	Field Joint - Bitumen Missing	737096.41	1388477.24	19/04/2023	13:25:34	No Additional Comment
7.466	FJ-BM446	Field Joint - Bitumen Missing	737093.43	1388488.73	19/04/2023	13:26:22	No Additional Comment
7.479	FJ-BM447	Field Joint - Bitumen Missing	737090.30	1388501.37	19/04/2023	13:27:07	No Additional Comment
7.491	FJ-BM448	Field Joint - Bitumen Missing	737087.01	1388513.35	19/04/2023	13:27:45	No Additional Comment
7.504	FJ-BM449	Field Joint - Bitumen Missing	737083.83	1388525.28	19/04/2023	13:28:23	No Additional Comment
7.516	FJ-BM450	Field Joint - Bitumen Missing	737080.51	1388537.09	19/04/2023	13:29:42	No Additional Comment
7.529	FJ-BM451	Field Joint - Bitumen Missing	737077.16	1388549.35	19/04/2023	13:30:19	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
8.126	FJ-BM494	Field Joint - Bitumen Missing	736926.89	1389126.89	19/04/2023	14:40:27	No Additional Comment
8.137	FJ-BM495	Field Joint - Bitumen Missing	736923.25	1389137.90	19/04/2023	14:41:48	No Additional Comment
8.150	FJ-BM496	Field Joint - Bitumen Missing	736919.42	1389150.06	19/04/2023	14:42:31	No Additional Comment
8.162	FJ-BM497	Field Joint - Bitumen Missing	736916.40	1389161.80	19/04/2023	14:43:12	No Additional Comment
8.174	FJ-BM498	Field Joint - Bitumen Missing	736913.68	1389173.58	19/04/2023	14:43:43	No Additional Comment
8.186	FJ-BM499	Field Joint - Bitumen Missing	736910.79	1389184.97	19/04/2023	14:45:03	No Additional Comment
8.199	FJ-BM500	Field Joint - Bitumen Missing	736907.17	1389198.00	19/04/2023	14:45:55	No Additional Comment
8.213	FJ-BM501	Field Joint - Bitumen Missing	736903.28	1389211.44	19/04/2023	14:46:40	No Additional Comment
8.224	FJ-BM502	Field Joint - Bitumen Missing	736901.03	1389222.15	19/04/2023	14:47:31	No Additional Comment
8.236	FJ-BM503	Field Joint - Bitumen Missing	736897.91	1389233.91	19/04/2023	14:48:36	No Additional Comment
8.249	FJ-BM504	Field Joint - Bitumen Missing	736894.33	1389245.99	19/04/2023	14:49:21	No Additional Comment
8.260	FJ-BM505	Field Joint - Bitumen Missing	736891.03	1389257.01	19/04/2023	14:50:53	No Additional Comment
8.273	FJ-BM506	Field Joint - Bitumen Missing	736887.73	1389268.95	19/04/2023	14:51:48	No Additional Comment
8.285	FJ-BM507	Field Joint - Bitumen Missing	736884.72	1389281.01	19/04/2023	14:52:56	No Additional Comment
8.298	FJ-BM508	Field Joint - Bitumen Missing	736881.49	1389293.13	19/04/2023	14:53:41	No Additional Comment
8.311	FJ-BM509	Field Joint - Bitumen Missing	736878.11	1389305.83	19/04/2023	14:54:18	No Additional Comment
8.323	FJ-BM510	Field Joint - Bitumen Missing	736874.51	1389317.67	19/04/2023	14:55:09	No Additional Comment
8.335	FJ-BM511	Field Joint - Bitumen Missing	736872.78	1389329.54	19/04/2023	14:55:57	No Additional Comment
8.348	FJ-BM512	Field Joint - Bitumen Missing	736868.91	1389341.60	19/04/2023	14:56:33	No Additional Comment
8.373	FJ-BM513	Field Joint - Bitumen Missing	736863.25	1389359.78	19/04/2023	15:04:21	No Additional Comment
8.385	FJ-BM514	Field Joint - Bitumen Missing	736859.85	1389377.43	19/04/2023	15:05:37	No Additional Comment
8.397	FJ-BM515	Field Joint - Bitumen Missing	736855.60	1389389.06	19/04/2023	15:06:22	No Additional Comment
8.410	FJ-BM516	Field Joint - Bitumen Missing	736853.27	1389401.27	19/04/2023	15:07:03	No Additional Comment
8.422	FJ-BM517	Field Joint - Bitumen Missing	736850.12	1389413.25	19/04/2023	15:07:51	No Additional Comment
8.435	FJ-BM518	Field Joint - Bitumen Missing	736846.77	1389425.42	19/04/2023	15:08:36	No Additional Comment
8.447	FJ-BM519	Field Joint - Bitumen Missing	736843.54	1389437.35	19/04/2023	15:09:14	No Additional Comment
8.461	FJ-BM520	Field Joint - Bitumen Missing	736839.86	1389450.82	19/04/2023	15:10:14	No Additional Comment
8.474	FJ-BM521	Field Joint - Bitumen Missing	736837.26	1389461.19	19/04/2023	15:11:07	No Additional Comment
8.484	FJ-BM522	Field Joint - Bitumen Missing	736834.30	1389472.94	19/04/2023	15:11:52	No Additional Comment
8.497	FJ-BM523	Field Joint - Bitumen Missing	736830.40	1389485.90	19/04/2023	15:12:29	No Additional Comment
8.508	FJ-BM524	Field Joint - Bitumen Missing	736826.74	1389496.50	19/04/2023	15:16:44	No Additional Comment
8.521	FJ-BM525	Field Joint - Bitumen Missing	736824.45	1389508.87	19/04/2023	15:17:25	No Additional Comment
8.545	FJ-BM526	Field Joint - Bitumen Missing	736819.30	1389532.15	19/04/2023	15:17:20	No Additional Comment
8.547	FJ-BM527	Field Joint - Bitumen Missing	736817.41	1389533.42	19/04/2023	15:19:02	No Additional Comment
8.559	FJ-BM528	Field Joint - Bitumen Missing	736814.22	1389545.60	19/04/2023	15:20:20	No Additional Comment
8.571	FJ-BM529	Field Joint - Bitumen Missing	736811.64	1389557.55	19/04/2023	15:20:58	No Additional Comment
8.585	FJ-BM530	Field Joint - Bitumen Missing	736807.86	1389570.92	19/04/2023	15:21:48	No Additional Comment
8.609	FJ-BM531	Field Joint - Bitumen Missing	736799.14	1389593.50	19/04/2023	15:22:31	No Additional Comment
8.609	FJ-BM532	Field Joint - Bitumen Missing	736795.19	1389601.50	19/04/2023	15:23:13	No Additional Comment
8.621	FJ-BM533	Field Joint - Bitumen Missing	736798.63	1389605.44	19/04/2023	15:24:41	No Additional Comment
8.633	FJ-BM534	Field Joint - Bitumen Missing	736796.29	1389617.72	19/04/2023	15:25:49	No Additional Comment
8.645	FJ-BM535	Field Joint - Bitumen Missing	736792.43	1389629.15	19/04/2023	15:26:28	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
7.541	FJ-BM452	Field Joint - Bitumen Missing	737074.25	1388561.53	19/04/2023	13:31:00	No Additional Comment
7.554	FJ-BM453	Field Joint - Bitumen Missing	737071.08	1388573.56	19/04/2023	13:31:39	No Additional Comment
7.567	FJ-BM454	Field Joint - Bitumen Missing	737067.32	1388585.98	19/04/2023	13:32:41	No Additional Comment
7.578	FJ-BM455	Field Joint - Bitumen Missing	737064.74	1388597.45	19/04/2023	13:33:21	No Additional Comment
7.591	FJ-BM456	Field Joint - Bitumen Missing	737061.61	1388609.35	19/04/2023	13:34:00	No Additional Comment
7.604	FJ-BM457	Field Joint - Bitumen Missing	737058.45	1388622.47	19/04/2023	13:34:37	No Additional Comment
7.616	FJ-BM458	Field Joint - Bitumen Missing	737055.04	1388634.13	19/04/2023	13:35:14	No Additional Comment
7.629	FJ-BM459	Field Joint - Bitumen Missing	737052.14	1388646.50	19/04/2023	13:35:56	No Additional Comment
7.641	FJ-BM460	Field Joint - Bitumen Missing	737048.62	1388657.85	19/04/2023	13:37:08	No Additional Comment
7.653	FJ-BM461	Field Joint - Bitumen Missing	737045.92	1388669.37	19/04/2023	13:37:41	No Additional Comment
7.678	FJ-BM462	Field Joint - Bitumen Missing	737040.61	1388694.01	19/04/2023	13:39:11	No Additional Comment
7.690	FJ-BM463	Field Joint - Bitumen Missing	737036.63	1388705.81	19/04/2023	13:40:00	No Additional Comment
7.702	FJ-BM464	Field Joint - Bitumen Missing	737033.31	1388717.20	19/04/2023	13:40:38	No Additional Comment
7.715	FJ-BM465	Field Joint - Bitumen Missing	737030.64	1388729.20	19/04/2023	13:41:19	No Additional Comment
7.727	FJ-BM466	Field Joint - Bitumen Missing	737026.84	1388741.35	19/04/2023	13:41:58	No Additional Comment
7.740	FJ-BM467	Field Joint - Bitumen Missing	737024.61	1388753.53	19/04/2023	13:42:42	No Additional Comment
7.754	FJ-BM468	Field Joint - Bitumen Missing	737020.86	1388767.14	19/04/2023	13:44:00	No Additional Comment
7.764	FJ-BM469	Field Joint - Bitumen Missing	737017.99	1388777.10	19/04/2023	13:49:23	No Additional Comment
7.777	FJ-BM470	Field Joint - Bitumen Missing	737015.93	1388789.50	19/04/2023	13:50:04	No Additional Comment
7.788	FJ-BM471	Field Joint - Bitumen Missing	737011.68	1388800.65	19/04/2023	13:50:41	No Additional Comment
7.801	FJ-BM472	Field Joint - Bitumen Missing	737008.86	1388812.57	19/04/2023	13:51:17	No Additional Comment
7.813	FJ-BM473	Field Joint - Bitumen Missing	737005.73	1388824.63	19/04/2023	13:51:53	No Additional Comment
7.826	FJ-BM474	Field Joint - Bitumen Missing	737002.46	1388836.56	19/04/2023	13:52:24	No Additional Comment
7.850	FJ-BM475	Field Joint - Bitumen Missing	736996.13	1388860.38	19/04/2023	14:08:27	No Additional Comment
7.876	FJ-BM476	Field Joint - Bitumen Missing	736989.72	1388885.23	19/04/2023	14:09:57	No Additional Comment
7.888	FJ-BM477	Field Joint - Bitumen Missing	736986.54	1388896.46	19/04/2023	14:10:58	No Additional Comment
7.900	FJ-BM478	Field Joint - Bitumen Missing	736983.72	1388908.21	19/04/2023	14:11:33	No Additional Comment
7.913	FJ-BM479	Field Joint - Bitumen Missing	736980.33	1388921.24	19/04/2023	14:12:12	No Additional Comment
7.926	FJ-BM480	Field Joint - Bitumen Missing	736976.86	1388933.33	19/04/2023	14:12:52	No Additional Comment
7.938	FJ-BM481	Field Joint - Bitumen Missing	736973.73	1388945.59	19/04/2023	14:13:25	No Additional Comment
7.950	FJ-BM482	Field Joint - Bitumen Missing	736970.76	1388957.07	19/04/2023	14:13:58	No Additional Comment
7.962	FJ-BM483	Field Joint - Bitumen Missing	736967.74	1388968.87	19/04/2023	14:14:29	No Additional Comment
7.975	FJ-BM484	Field Joint - Bitumen Missing	736964.49	1388981.03	19/04/2023	14:15:03	No Additional Comment
7.987	FJ-BM485	Field Joint - Bitumen Missing	736961.30	1388992.72	19/04/2023	14:15:37	No Additional Comment

Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
9.311	FJ-BM578	Field Joint - Bitumen Missing	736624.20	1390273.16	22/04/2023	09:32:02	No Additional Comment
9.324	FJ-BM579	Field Joint - Bitumen Missing	736620.94	1390285.37	22/04/2023	09:32:54	No Additional Comment
9.336	FJ-BM580	Field Joint - Bitumen Missing	736617.93	1390297.32	22/04/2023	09:33:45	No Additional Comment
9.349	FJ-BM581	Field Joint - Bitumen Missing	736614.66	1390309.75	22/04/2023	09:34:31	No Additional Comment
9.361	FJ-BM582	Field Joint - Bitumen Missing	736611.14	1390321.42	22/04/2023	09:35:10	No Additional Comment
9.374	FJ-BM583	Field Joint - Bitumen Missing	736607.94	1390333.65	22/04/2023	09:36:07	No Additional Comment
9.386	FJ-BM584	Field Joint - Bitumen Missing	736605.14	1390345.35	22/04/2023	09:36:46	No Additional Comment
9.398	FJ-BM585	Field Joint - Bitumen Missing	736601.77	1390357.30	22/04/2023	09:37:28	No Additional Comment
9.410	FJ-BM586	Field Joint - Bitumen Missing	736598.35	1390369.12	22/04/2023	09:38:13	No Additional Comment
9.423	FJ-BM587	Field Joint - Bitumen Missing	736595.30	1390380.91	22/04/2023	09:39:10	No Additional Comment
9.435	FJ-BM588	Field Joint - Bitumen Missing	736591.92	1390393.04	22/04/2023	09:39:50	No Additional Comment
9.448	FJ-BM589	Field Joint - Bitumen Missing	736589.13	1390405.11	22/04/2023	09:40:40	No Additional Comment
9.460	FJ-BM590	Field Joint - Bitumen Missing	736586.33	1390416.84	22/04/2023	09:41:22	No Additional Comment
9.472	FJ-BM591	Field Joint - Bitumen Missing	736582.79	1390428.87	22/04/2023	09:42:05	No Additional Comment
9.484	FJ-BM592	Field Joint - Bitumen Missing	736579.18	1390440.39	22/04/2023	09:42:50	No Additional Comment
9.496	FJ-BM593	Field Joint - Bitumen Missing	736576.69	1390452.29	22/04/2023	09:43:46	No Additional Comment
9.509	FJ-BM594	Field Joint - Bitumen Missing	736573.16	1390464.40	22/04/2023	09:44:29	No Additional Comment
9.521	FJ-BM595	Field Joint - Bitumen Missing	736570.26	1390476.44	22/04/2023	09:45:13	No Additional Comment
9.533	FJ-BM596	Field Joint - Bitumen Missing	736566.69	1390487.93	22/04/2023	09:45:46	No Additional Comment
9.546	FJ-BM597	Field Joint - Bitumen Missing	736563.83	1390500.24	22/04/2023	09:46:20	No Additional Comment
9.559	FJ-BM598	Field Joint - Bitumen Missing	736560.96	1390512.51	22/04/2023	09:46:51	No Additional Comment
9.571	FJ-BM599	Field Joint - Bitumen Missing	736557.90	1390524.12	22/04/2023	09:47:21	No Additional Comment
9.583	FJ-BM600	Field Joint - Bitumen Missing	736554.83	1390536.13	22/04/2023	09:48:20	No Additional Comment
9.596	FJ-BM601	Field Joint - Bitumen Missing	736551.51	1390548.38	22/04/2023	09:48:52	No Additional Comment
9.609	FJ-BM602	Field Joint - Bitumen Missing	736548.25	1390561.10	22/04/2023	09:49:33	No Additional Comment
9.633	FJ-BM603	Field Joint - Bitumen Missing	736542.06	1390584.58	22/04/2023	09:50:38	No Additional Comment
9.645	FJ-BM604	Field Joint - Bitumen Missing	736538.93	1390597.84	22/04/2023	09:51:14	No Additional Comment
9.658	FJ-BM605	Field Joint - Bitumen Missing	736535.18	1390608.35	22/04/2023	09:51:46	No Additional Comment
9.695	FJ-BM606	Field Joint - Bitumen Missing	736526.42	1390644.69	22/04/2023	09:53:58	No Additional Comment
9.708	FJ-BM607	Field Joint - Bitumen Missing	736523.08	1390656.49	22/04/2023	09:54:36	No Additional Comment
9.720	FJ-BM608	Field Joint - Bitumen Missing	736519.71	1390668.58	22/04/2023	09:55:15	No Additional Comment
9.744	FJ-BM609	Field Joint - Bitumen Missing	736513.65	1390692.20	22/04/2023	09:56:54	No Additional Comment
9.757	FJ-BM610	Field Joint - Bitumen Missing	736510.30	1390704.20	22/04/2023	09:57:37	No Additional Comment
9.792	FJ-BM611	Field Joint - Bitumen Missing	736504.17	1390728.07	22/04/2023	09:58:51	No Additional Comment
9.794	FJ-BM612	Field Joint - Bitumen Missing	736500.85	1390739.76	22/04/2023	09:59:29	No Additional Comment
9.806	FJ-BM613	Field Joint - Bitumen Missing	736497.24	1390751.84	22/04/2023	10:00:07	No Additional Comment
9.818	FJ-BM614	Field Joint - Bitumen Missing	736494.72	1390763.61	22/04/2023	10:00:47	No Additional Comment
9.831	FJ-BM615	Field Joint - Bitumen Missing	736491.64	1390776.36	22/04/2023	10:01:25	No Additional Comment
9.844	FJ-BM616	Field Joint - Bitumen Missing	736487.50	1390788.25	22/04/2023	10:02:03	No Additional Comment
9.856	FJ-BM617	Field Joint - Bitumen Missing	736485.33	1390800.18	22/04/2023	10:02:36	No Additional Comment
9.881	FJ-BM618	Field Joint - Bitumen Missing	736478.68	1390824.09	22/04/2023	10:04:06	No Additional Comment
9.893	FJ-BM619	Field Joint - Bitumen Missing	736475.94	1390835.34	22/04/2023	10:04:37	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
10.465	FJ-BM662	Field Joint - Bitumen Missing	736330.03	1391388.62	22/04/2023	10:38:46	No Additional Comment
10.476	FJ-BM663	Field Joint - Bitumen Missing	736327.05	1391399.85	22/04/2023	10:39:17	No Additional Comment
10.489	FJ-BM664	Field Joint - Bitumen Missing	736323.90	1391412.32	22/04/2023	10:40:02	No Additional Comment
10.502	FJ-BM665	Field Joint - Bitumen Missing	736320.88	1391424.37	22/04/2023	10:40:33	No Additional Comment
10.514	FJ-BM666	Field Joint - Bitumen Missing	736317.66	1391436.31	22/04/2023	10:41:09	No Additional Comment
10.526	FJ-BM667	Field Joint - Bitumen Missing	736314.54	1391447.66	22/04/2023	10:41:46	No Additional Comment
10.538	FJ-BM668	Field Joint - Bitumen Missing	736311.15	1391459.41	22/04/2023	10:42:22	No Additional Comment
10.551	FJ-BM669	Field Joint - Bitumen Missing	736308.20	1391471.87	22/04/2023	10:42:57	No Additional Comment
10.563	FJ-BM670	Field Joint - Bitumen Missing	736305.64	1391483.56	22/04/2023	10:43:59	No Additional Comment
10.575	FJ-BM671	Field Joint - Bitumen Missing	736302.22	1391495.53	22/04/2023	10:44:43	No Additional Comment
10.588	FJ-BM672	Field Joint - Bitumen Missing	736298.83	1391507.48	22/04/2023	10:45:21	No Additional Comment
10.600	FJ-BM673	Field Joint - Bitumen Missing	736295.42	1391519.31	22/04/2023	10:46:19	No Additional Comment
10.612	FJ-BM674	Field Joint - Bitumen Missing	736292.33	1391531.27	22/04/2023	10:47:16	No Additional Comment
10.638	FJ-BM675	Field Joint - Bitumen Missing	736285.97	1391555.83	22/04/2023	10:48:22	No Additional Comment
10.650	FJ-BM676	Field Joint - Bitumen Missing	736282.87	1391567.93	22/04/2023	10:48:57	No Additional Comment
10.663	FJ-BM677	Field Joint - Bitumen Missing	736279.52	1391580.00	22/04/2023	10:49:40	No Additional Comment
10.675	FJ-BM678	Field Joint - Bitumen Missing	736276.38	1391591.76	22/04/2023	10:50:20	No Additional Comment
10.687	FJ-BM679	Field Joint - Bitumen Missing	736273.56	1391604.11	22/04/2023	10:51:05	No Additional Comment
10.700	FJ-BM680	Field Joint - Bitumen Missing	736270.05	1391616.51	22/04/2023	10:51:44	No Additional Comment
10.713	FJ-BM681	Field Joint - Bitumen Missing	736266.99	1391628.69	22/04/2023	10:52:33	No Additional Comment
10.726	FJ-BM682	Field Joint - Bitumen Missing	736263.76	1391641.39	22/04/2023	10:53:20	No Additional Comment
10.738	FJ-BM683	Field Joint - Bitumen Missing	736261.10	1391653.03	22/04/2023	10:54:22	No Additional Comment
10.750	FJ-BM684	Field Joint - Bitumen Missing	736257.45	1391664.40	22/04/2023	10:54:54	No Additional Comment
10.762	FJ-BM685	Field Joint - Bitumen Missing	736254.47	1391676.64	22/04/2023	10:55:34	No Additional Comment
10.777	FJ-BM686	Field Joint - Bitumen Missing	736251.24	1391690.74	22/04/2023	10:56:20	No Additional Comment
10.788	FJ-BM687	Field Joint - Bitumen Missing	736248.02	1391701.43	22/04/2023	10:57:02	No Additional Comment
10.801	FJ-BM688	Field Joint - Bitumen Missing	736245.00	1391713.52	22/04/2023	10:57:50	No Additional Comment
10.813	FJ-BM689	Field Joint - Bitumen Missing	736242.37	1391725.83	22/04/2023	10:58:09	No Additional Comment
10.838	FJ-BM690	Field Joint - Bitumen Missing	736235.66	1391750.09	22/04/2023	10:59:25	No Additional Comment
10.850	FJ-BM691	Field Joint - Bitumen Missing	736232.44	1391761.58	22/04/2023	10:59:59	No Additional Comment
10.863	FJ-BM692	Field Joint - Bitumen Missing	736229.69	1391773.60	22/04/2023	11:03:41	No Additional Comment
10.876	FJ-BM693	Field Joint - Bitumen Missing	736226.27	1391786.11	22/04/2023	11:04:12	No Additional Comment
10.888	FJ-BM694	Field Joint - Bitumen Missing	736223.00	1391797.81	22/04/2023	11:04:48	No Additional Comment
10.899	FJ-BM695	Field Joint - Bitumen Missing	736219.85	1391809.22	22/04/2023	11:05:26	No Additional Comment
10.913	FJ-BM696	Field Joint - Bitumen Missing	736216.40	1391821.85	22/04/2023	11:05:56	No Additional Comment
10.924	FJ-BM697	Field Joint - Bitumen Missing	736213.56	1391833.04	22/04/2023	11:06:30	No Additional Comment
10.937	FJ-BM698	Field Joint - Bitumen Missing	736210.50	1391845.55	22/04/2023	11:07:02	No Additional Comment
10.950	FJ-BM699	Field Joint - Bitumen Missing	736206.89	1391857.57	22/04/2023	11:07:34	No Additional Comment
10.962	FJ-BM700	Field Joint - Bitumen Missing	736203.42	1391869.25	22/04/2023	11:08:14	No Additional Comment
10.974	FJ-BM701	Field Joint - Bitumen Missing	736200.56	1391880.94	22/04/2023	11:08:48	No Additional Comment
10.986	FJ-BM702	Field Joint - Bitumen Missing	736197.30	1391892.88	22/04/2023	11:09:33	No Additional Comment
10.999	FJ-BM703	Field Joint - Bitumen Missing	736194.18	1391904.97	22/04/2023	11:10:01	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
9.906	FJ-BM620	Field Joint - Bitumen Missing	736472.76	1390848.17	22/04/2023	10:05:23	No Additional Comment
9.917	FJ-BM621	Field Joint - Bitumen Missing	736469.64	1390859.43	22/04/2023	10:05:54	No Additional Comment
9.930	FJ-BM622	Field Joint - Bitumen Missing	736466.04	1390871.89	22/04/2023	10:06:26	No Additional Comment
9.942	FJ-BM623	Field Joint - Bitumen Missing	736463.23	1390883.38	22/04/2023	10:06:58	No Additional Comment
9.955	FJ-BM624	Field Joint - Bitumen Missing	736459.90	1390896.09	22/04/2023	10:07:37	No Additional Comment
9.968	FJ-BM625	Field Joint - Bitumen Missing	736457.04	1390908.21	22/04/2023	10:08:30	No Additional Comment
9.980	FJ-BM626	Field Joint - Bitumen Missing	736453.81	1390919.70	22/04/2023	10:09:05	No Additional Comment
9.992	FJ-BM627	Field Joint - Bitumen Missing	736450.66	1390931.61	22/04/2023	10:09:50	No Additional Comment
10.004	FJ-BM628	Field Joint - Bitumen Missing	736447.43	1390943.25	22/04/2023	10:10:35	No Additional Comment
10.017	FJ-BM629	Field Joint - Bitumen Missing	736444.33	1390955.34	22/04/2023	10:11:22	No Additional Comment
10.029	FJ-BM630	Field Joint - Bitumen Missing	736441.11	1390967.35	22/04/2023	10:12:05	No Additional Comment
10.041	FJ-BM631	Field Joint - Bitumen Missing	736438.30	1390979.32	22/04/2023	10:12:45	No Additional Comment
10.066	FJ-BM632	Field Joint - Bitumen Missing	736431.77	1391003.41	22/04/2023	10:13:55	No Additional Comment
10.079	FJ-BM633	Field Joint - Bitumen Missing	736428.42	1391015.38	22/04/2023	10:14:28	No Additional Comment
10.091	FJ-BM634	Field Joint - Bitumen Missing	736425.36	1391027.65	22/04/2023	10:15:07	No Additional Comment
10.104	FJ-BM635	Field Joint - Bitumen Missing	736421.99	1391039.80	22/04/2023	10:15:45	No Additional Comment
10.116	FJ-BM636	Field Joint - Bitumen Missing	736419.22	1391051.94	22/04/2023	10:17:00	No Additional Comment
10.129	FJ-BM637	Field Joint - Bitumen Missing	736415.79	1391064.47	22/04/2023	10:17:35	No Additional Comment
10.142	FJ-BM638	Field Joint - Bitumen Missing	736412.37	1391076.18	22/04/2023	10:18:24	No Additional Comment
10.166	FJ-BM639	Field Joint - Bitumen Missing	736406.00	1391099.52	22/04/2023	10:19:44	No Additional Comment
10.179	FJ-BM640	Field Joint - Bitumen Missing	736402.75	1391112.25	22/04/2023	10:20:32	No Additional Comment
10.192	FJ-BM641	Field Joint - Bitumen Missing	736398.97	1391124.88	22/04/2023	10:21:17	No Additional Comment
10.204	FJ-BM642	Field Joint - Bitumen Missing	736396.28	1391136.39	22/04/2023	10:21:57	No Additional Comment
10.217	FJ-BM643	Field Joint - Bitumen Missing	736393.00	1391149.01	22/04/2023	10:22:39	No Additional Comment
10.229	FJ-BM644	Field Joint - Bitumen Missing	736389.88	1391161.07	22/04/2023	10:23:20	No Additional Comment
10.241	FJ-BM645	Field Joint - Bitumen Missing	736386.92	1391172.64	22/04/2023	10:24:40	No Additional Comment
10.254	FJ-BM646	Field Joint - Bitumen Missing	736383.87	1391184.87	22/04/2023	10:25:21	No Additional Comment
10.270	FJ-BM647	Field Joint - Bitumen Missing	736357.78	1391194.42	22/04/2023	10:26:03	No Additional Comment
10.279	FJ-BM648	Field Joint - Bitumen Missing	736377.12	1391209.03	22/04/2023	10:28:21	No Additional Comment
10.291	FJ-BM649	Field Joint - Bitumen Missing	736374.08	1391220.77	22/04/2023	10:29:11	No Additional Comment
10.303	FJ-BM650	Field Joint - Bitumen Missing	736371.69	1391232.84	22/04/2023	10:29:55	No Additional Comment
10.316	FJ-BM651	Field Joint - Bitumen Missing	736367.76	1391244.70	22/04/2023	10:30:40	No Additional Comment
10.329	FJ-BM652	Field Joint - Bitumen Missing	736364.78	1391257.19	22/04/2023	10:31:42	No Additional Comment
10.340	FJ-BM653	Field Joint - Bitumen Missing	736361.74	1391268.28	22/04/2023	10:32:24	No Additional Comment
10.353	FJ-BM654	Field Joint - Bitumen Missing	736358.44	1391280.16	22/04/2023	10:33:12	No Additional Comment
10.365	FJ-BM655	Field Joint - Bitumen Missing	736356.13	1391292.41	22/04/2023	10:34:08	No Additional Comment
10.378	FJ-BM656	Field Joint - Bitumen Missing	736352.58	1391304.50	22/04/2023	10:34:46	No Additional Comment
10.390	FJ-BM657	Field Joint - Bitumen Missing	736349.03	1391316.62	22/04/2023	10:35:37	No Additional Comment
10.403	FJ-BM658	Field Joint - Bitumen Missing	736345.86	1391328.84	22/04/2023	10:36:07	No Additional Comment
10.427	FJ-BM659	Field Joint - Bitumen Missing	736339.79	1391352.25	22/04/2023	10:37:13	No Additional Comment
10.439	FJ-BM660	Field Joint - Bitumen Missing	736336.71	1391364.31	22/04/2023	10:37:43	No Additional Comment
10.452	FJ-BM661	Field Joint - Bitumen Missing	736333.05	1391376.02	22/04/2023	10:38:15	No Additional Comment

Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
11.778	FJ-BM746	Field Joint - Bitumen Missing	735995.65	1392658.52	22/04/2023	13:11:46	No Additional Comment
11.789	FJ-BM747	Field Joint - Bitumen Missing	735992.69	1392669.19	22/04/2023	13:12:28	No Additional Comment
11.814	FJ-BM748	Field Joint - Bitumen Missing	735986.66	1392693.08	22/04/2023	13:14:01	No Additional Comment
11.825	FJ-BM749	Field Joint - Bitumen Missing	735984.14	1392704.57	22/04/2023	13:14:50	No Additional Comment
11.837	FJ-BM750	Field Joint - Bitumen Missing	735980.40	1392716.07	22/04/2023	13:15:35	No Additional Comment
11.850	FJ-BM751	Field Joint - Bitumen Missing	735977.69	1392728.07	22/04/2023	13:16:22	No Additional Comment
11.862	FJ-BM752	Field Joint - Bitumen Missing	735974.82	1392739.83	22/04/2023	13:16:59	No Additional Comment
11.887	FJ-BM753	Field Joint - Bitumen Missing	735969.67	1392764.22	22/04/2023	13:18:21	No Additional Comment
11.900	FJ-BM754	Field Joint - Bitumen Missing	735965.09	1392776.55	22/04/2023	13:19:02	No Additional Comment
11.911	FJ-BM755	Field Joint - Bitumen Missing	735961.16	1392787.52	22/04/2023	13:19:46	No Additional Comment
11.924	FJ-BM756	Field Joint - Bitumen Missing	735958.40	1392799.37	22/04/2023	13:20:29	No Additional Comment
11.937	FJ-BM757	Field Joint - Bitumen Missing	735955.30	1392812.14	22/04/2023	13:21:17	No Additional Comment
11.948	FJ-BM758	Field Joint - Bitumen Missing	735952.46	1392823.00	22/04/2023	13:21:55	No Additional Comment
11.961	FJ-BM759	Field Joint - Bitumen Missing	735949.27	1392835.69	22/04/2023	13:22:45	No Additional Comment
11.967	FJ-BM760	Field Joint - Bitumen Missing	735947.88	1392841.52	22/04/2023	13:23:08	No Additional Comment
11.974	FJ-BM761	Field Joint - Bitumen Missing	735946.03	1392847.81	22/04/2023	13:23:36	No Additional Comment
11.986	FJ-BM762	Field Joint - Bitumen Missing	735943.09	1392859.69	22/04/2023	13:24:17	No Additional Comment
11.998	FJ-BM763	Field Joint - Bitumen Missing	735939.67	1392871.41	22/04/2023	13:25:22	No Additional Comment
12.010	FJ-BM764	Field Joint - Bitumen Missing	735936.96	1392882.85	22/04/2023	13:26:20	No Additional Comment
12.022	FJ-BM765	Field Joint - Bitumen Missing	735933.20	1392894.92	22/04/2023	13:27:45	No Additional Comment
12.036	FJ-BM766	Field Joint - Bitumen Missing	735930.99	1392907.58	22/04/2023	13:28:24	No Additional Comment
12.049	FJ-BM767	Field Joint - Bitumen Missing	735928.58	1392920.96	22/04/2023	13:29:05	No Additional Comment
12.074	FJ-BM768	Field Joint - Bitumen Missing	735921.07	1392945.01	22/04/2023	13:30:37	No Additional Comment
12.085	FJ-BM769	Field Joint - Bitumen Missing	735918.01	1392955.75	22/04/2023	13:31:12	No Additional Comment
12.110	FJ-BM770	Field Joint - Bitumen Missing	735912.03	1392980.42	22/04/2023	13:33:32	No Additional Comment
12.123	FJ-BM771	Field Joint - Bitumen Missing	735908.39	1392991.98	22/04/2023	13:34:15	No Additional Comment
12.134	FJ-BM772	Field Joint - Bitumen Missing	735905.70	1393003.27	22/04/2023	13:35:06	No Additional Comment
12.147	FJ-BM773	Field Joint - Bitumen Missing	735902.22	1393016.06	22/04/2023	13:35:52	No Additional Comment
12.159	FJ-BM774	Field Joint - Bitumen Missing	735899.36	1393027.54	22/04/2023	13:36:34	No Additional Comment
12.172	FJ-BM775	Field Joint - Bitumen Missing	735896.33	1393039.49	22/04/2023	13:37:16	No Additional Comment
12.185	FJ-BM776	Field Joint - Bitumen Missing	735892.62	1393052.45	22/04/2023	13:38:06	No Additional Comment
12.197	FJ-BM777	Field Joint - Bitumen Missing	735889.77	1393063.97	22/04/2023	13:39:03	No Additional Comment
12.215	FJ-BM778	Field Joint - Bitumen Missing	735885.29	1393081.40	22/04/2023	13:40:50	No Additional Comment
12.234	FJ-BM779	Field Joint - Bitumen Missing	735880.04	1393099.51	22/04/2023	13:44:46	No Additional Comment
12.284	FJ-BM780	Field Joint - Bitumen Missing	735867.85	1393147.74	22/04/2023	13:47:54	No Additional Comment
12.308	FJ-BM781	Field Joint - Bitumen Missing	735861.74	1393171.16	22/04/2023	13:49:21	No Additional Comment
12.320	FJ-BM782	Field Joint - Bitumen Missing	735858.29	1393182.83	22/04/2023	13:50:09	No Additional Comment
12.333	FJ-BM783	Field Joint - Bitumen Missing	735855.60	1393196.13	22/04/2023	13:51:41	No Additional Comment
12.347	FJ-BM784	Field Joint - Bitumen Missing	735852.57	1393209.23	22/04/2023	13:52:10	No Additional Comment
12.359	FJ-BM785	Field Joint - Bitumen Missing	735848.52	1393220.36	22/04/2023	13:53:27	No Additional Comment
12.419	FJ-BM786	Field Joint - Bitumen Missing	735833.78	1393278.93	23/04/2023	11:45:38	No Additional Comment
12.431	FJ-BM787	Field Joint - Bitumen Missing	735831.18	1393290.70	23/04/2023	11:46:37	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
13.718	FJ-BM830	Field Joint - Bitumen Missing	735503.48	1394534.98	23/04/2023	12:58:12	No Additional Comment
13.755	FJ-BM831	Field Joint - Bitumen Missing	735494.51	1394571.14	23/04/2023	13:19:14	No Additional Comment
13.793	FJ-BM832	Field Joint - Bitumen Missing	735486.32	1394607.37	23/04/2023	13:21:22	No Additional Comment
13.818	FJ-BM833	Field Joint - Bitumen Missing	735477.81	1394631.49	23/04/2023	13:22:44	No Additional Comment
13.829	FJ-BM834	Field Joint - Bitumen Missing	735474.93	1394642.41	23/04/2023	13:23:18	No Additional Comment
13.855	FJ-BM835	Field Joint - Bitumen Missing	735467.88	1394667.52	23/04/2023	13:24:38	No Additional Comment
13.867	FJ-BM836	Field Joint - Bitumen Missing	735465.33	1394679.71	23/04/2023	13:25:23	No Additional Comment
13.880	FJ-BM837	Field Joint - Bitumen Missing	735462.12	1394692.01	23/04/2023	13:26:08	No Additional Comment
13.892	FJ-BM838	Field Joint - Bitumen Missing	735458.96	1394703.39	23/04/2023	13:26:45	No Additional Comment
13.941	FJ-BM839	Field Joint - Bitumen Missing	735446.78	1394751.26	23/04/2023	13:29:14	No Additional Comment
13.966	FJ-BM840	Field Joint - Bitumen Missing	735440.56	1394774.81	23/04/2023	13:30:33	No Additional Comment
14.116	FJ-BM841	Field Joint - Bitumen Missing	735402.21	1394919.95	23/04/2023	13:38:21	No Additional Comment
14.151	FJ-BM842	Field Joint - Bitumen Missing	735393.20	1394953.54	23/04/2023	13:40:08	No Additional Comment
14.164	FJ-BM843	Field Joint - Bitumen Missing	735389.47	1394966.60	23/04/2023	13:40:49	No Additional Comment
14.176	FJ-BM844	Field Joint - Bitumen Missing	735386.65	1394978.24	23/04/2023	13:41:31	No Additional Comment
14.188	FJ-BM845	Field Joint - Bitumen Missing	735383.57	1394989.56	23/04/2023	13:42:15	No Additional Comment
14.200	FJ-BM846	Field Joint - Bitumen Missing	735380.59	1395001.47	23/04/2023	13:42:53	No Additional Comment
14.213	FJ-BM847	Field Joint - Bitumen Missing	735377.22	1395013.98	23/04/2023	13:43:42	No Additional Comment
14.225	FJ-BM848	Field Joint - Bitumen Missing	735374.19	1395025.65	23/04/2023	13:44:24	No Additional Comment
14.263	FJ-BM849	Field Joint - Bitumen Missing	735364.35	1395062.25	23/04/2023	13:46:18	No Additional Comment
14.288	FJ-BM850	Field Joint - Bitumen Missing	735359.19	1395086.05	23/04/2023	13:47:38	No Additional Comment
14.350	FJ-BM851	Field Joint - Bitumen Missing	735342.19	1395145.97	23/04/2023	13:55:53	No Additional Comment
14.374	FJ-BM852	Field Joint - Bitumen Missing	735336.09	1395169.47	23/04/2023	14:00:04	No Additional Comment
14.425	FJ-BM853	Field Joint - Bitumen Missing	735321.76	1395218.33	23/04/2023	14:02:27	No Additional Comment
14.448	FJ-BM854	Field Joint - Bitumen Missing	735317.88	1395241.10	23/04/2023	14:03:38	No Additional Comment
14.461	FJ-BM855	Field Joint - Bitumen Missing	735315.04	1395254.40	23/04/2023	14:04:17	No Additional Comment
14.474	FJ-BM856	Field Joint - Bitumen Missing	735311.55	1395265.97	23/04/2023	14:05:09	No Additional Comment
14.485	FJ-BM857	Field Joint - Bitumen Missing	735308.22	1395276.45	23/04/2023	14:05:43	No Additional Comment
14.509	FJ-BM858	Field Joint - Bitumen Missing	735302.09	1395300.60	23/04/2023	14:07:10	No Additional Comment
14.522	FJ-BM859	Field Joint - Bitumen Missing	735299.09	1395312.65	23/04/2023	14:07:47	No Additional Comment
14.534	FJ-BM860	Field Joint - Bitumen Missing	735295.91	1395324.48	23/04/2023	14:08:28	No Additional Comment
14.546	FJ-BM861	Field Joint - Bitumen Missing	735292.64	1395335.80	23/04/2023	14:09:08	No Additional Comment
14.558	FJ-BM862	Field Joint - Bitumen Missing	735289.59	1395347.99	23/04/2023	14:09:52	No Additional Comment
14.595	FJ-BM863	Field Joint - Bitumen Missing	735279.28	1395383.39	23/04/2023	14:12:00	No Additional Comment
14.608	FJ-BM864	Field Joint - Bitumen Missing	735276.40	1395395.63	23/04/2023	14:12:46	No Additional Comment
14.620	FJ-BM865	Field Joint - Bitumen Missing	735273.69	1395407.57	23/04/2023	14:13:22	No Additional Comment
14.633	FJ-BM866	Field Joint - Bitumen Missing	735270.27	1395420.06	23/04/2023	14:14:03	No Additional Comment
14.657	FJ-BM867	Field Joint - Bitumen Missing	735264.08	1395443.57	23/04/2023	14:15:10	No Additional Comment
14.682	FJ-BM868	Field Joint - Bitumen Missing	735257.80	1395467.58	23/04/2023	14:16:24	No Additional Comment
14.733	FJ-BM869	Field Joint - Bitumen Missing	735244.95	1395517.00	23/04/2023	14:18:54	No Additional Comment
14.744	FJ-BM870	Field Joint - Bitumen Missing	735242.53	1395527.72	23/04/2023	14:19:22	No Additional Comment
14.757	FJ-BM871	Field Joint - Bitumen Missing	735238.89	1395539.77	23/04/2023	14:19:59	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
12.443	FJ-BM788	Field Joint - Bitumen Missing	735828.63	1393301.83	23/04/2023	11:47:13	No Additional Comment
12.456	FJ-BM789	Field Joint - Bitumen Missing	735824.60	1393314.35	23/04/2023	11:47:47	No Additional Comment
12.481	FJ-BM790	Field Joint - Bitumen Missing	735818.66	1393339.27	23/04/2023	11:48:59	No Additional Comment
12.506	FJ-BM791	Field Joint - Bitumen Missing	735811.71	1393363.17	23/04/2023	11:50:17	No Additional Comment
12.518	FJ-BM792	Field Joint - Bitumen Missing	735809.44	1393374.60	23/04/2023	11:50:48	No Additional Comment
12.530	FJ-BM793	Field Joint - Bitumen Missing	735805.93	1393386.31	23/04/2023	11:51:23	No Additional Comment
12.545	FJ-BM794	Field Joint - Bitumen Missing	735802.32	1393400.42	23/04/2023	11:52:06	No Additional Comment
12.555	FJ-BM795	Field Joint - Bitumen Missing	735799.46	1393410.25	23/04/2023	11:52:44	No Additional Comment
12.617	FJ-BM796	Field Joint - Bitumen Missing	735783.81	1393470.26	23/04/2023	12:03:43	No Additional Comment
12.728	FJ-BM797	Field Joint - Bitumen Missing	735756.13	1393577.72	23/04/2023	12:08:25	No Additional Comment
12.878	FJ-BM798	Field Joint - Bitumen Missing	735717.89	1393722.89	23/04/2023	12:15:15	No Additional Comment
12.951	FJ-BM799	Field Joint - Bitumen Missing	735698.86	1393793.33	23/04/2023	12:18:32	No Additional Comment
12.963	FJ-BM800	Field Joint - Bitumen Missing	735695.69	1393805.00	23/04/2023	12:19:04	No Additional Comment
12.976	FJ-BM801	Field Joint - Bitumen Missing	735692.33	1393817.23	23/04/2023	12:19:38	No Additional Comment
13.038	FJ-BM802	Field Joint - Bitumen Missing	735676.44	1393877.52	23/04/2023	12:22:43	No Additional Comment
13.088	FJ-BM803	Field Joint - Bitumen Missing	735665.13	1393926.12	23/04/2023	12:24:47	No Additional Comment
13.110	FJ-BM804	Field Joint - Bitumen Missing	735656.04	1393946.96	23/04/2023	12:25:54	No Additional Comment
13.146	FJ-BM805	Field Joint - Bitumen Missing	735648.15	1393982.16	23/04/2023	12:27:47	No Additional Comment
13.185	FJ-BM806	Field Joint - Bitumen Missing	735638.61	1394019.88	23/04/2023	12:29:24	No Additional Comment
13.222	FJ-BM807	Field Joint - Bitumen Missing	735629.50	1394055.78	23/04/2023	12:32:16	No Additional Comment
13.234	FJ-BM808	Field Joint - Bitumen Missing	735626.43	1394079.32	23/04/2023	12:32:50	No Additional Comment
13.247	FJ-BM809	Field Joint - Bitumen Missing	735623.28	1394097.35	23/04/2023	12:33:22	No Additional Comment
13.259	FJ-BM810	Field Joint - Bitumen Missing	735619.76	1394090.96	23/04/2023	12:33:53	No Additional Comment
13.271	FJ-BM811	Field Joint - Bitumen Missing	735617.07	1394102.40	23/04/2023	12:34:29	No Additional Comment
13.283	FJ-BM812	Field Joint - Bitumen Missing	735613.72	1394114.58	23/04/2023	12:35:10	No Additional Comment
13.296	FJ-BM813	Field Joint - Bitumen Missing	735611.03	1394127.04	23/04/2023	12:35:51	No Additional Comment
13.308	FJ-BM814	Field Joint - Bitumen Missing	735607.63	1394138.86	23/04/2023	12:36:29	No Additional Comment
13.357	FJ-BM815	Field Joint - Bitumen Missing	735594.87	1394186.39	23/04/2023	12:38:47	No Additional Comment
13.407	FJ-BM816	Field Joint - Bitumen Missing	735582.35	1394234.78	23/04/2023	12:41:01	No Additional Comment
13.420	FJ-BM817	Field Joint - Bitumen Missing	735579.26	1394247.31	23/04/2023	12:41:39	No Additional Comment
13.432	FJ-BM818	Field Joint - Bitumen Missing	735576.22	1394258.66	23/04/2023	12:42:10	No Additional Comment
13.458	FJ-BM819	Field Joint - Bitumen Missing	735569.63	1394283.35	23/04/2023	12:43:14	No Additional Comment
13.471	FJ-BM820	Field Joint - Bitumen Missing	735566.39	1394296.44	23/04/2023	12:43:53	No Additional Comment
13.482	FJ-BM821	Field Joint - Bitumen Missing	735563.56	1394306.61	23/04/2023	12:44:29	No Additional Comment
13.532	FJ-BM822	Field Joint - Bitumen Missing	735550.04	1394354.70	23/04/2023	12:46:39	No Additional Comment
13.544	FJ-BM823	Field Joint - Bitumen Missing	735547.01	1394367.04	23/04/2023	12:47:13	No Additional Comment
13.557	FJ-BM824	Field Joint - Bitumen Missing	735543.71	1394378.90	23/04/2023	12:47:47	No Additional Comment
13.569	FJ-BM825	Field Joint - Bitumen Missing	735540.41	1394392.35	23/04/2023	12:48:21	No Additional Comment
13.594	FJ-BM826	Field Joint - Bitumen Missing	735534.45	1394415.41	23/04/2023	12:49:28	No Additional Comment
13.667	FJ-BM827	Field Joint - Bitumen Missing	735516.49	1394486.15	23/04/2023	12:55:31	No Additional Comment
13.674	FJ-BM828	Field Joint - Bitumen Missing	735514.77	1394492.39	23/04/2023	12:55:57	No Additional Comment
13.704	FJ-BM829	Field Joint - Bitumen Missing	735507.13	1394521.89	23/04/2023	12:57:31	No Additional Comment

Map Ta Phut 48" Subsea Crude Import Pipeline Report

Table of Fishing Debris

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.049	DBF-FT01	Debris - Fish Trap	738989.76	138151.71	13/04/2023	13:08:23	No Additional Comment
0.059	DBF-FT02	Debris - Fish Trap	738978.29	1381325.60	13/04/2023	13:10:41	Net
0.186	DBF-FG01	Debris - Fishing Gear	738950.41	1381449.31	14/04/2023	09:12:42	No Additional Comment
0.210	DBF-FG02	Debris - Fishing Gear	738942.61	1381472.55	15/04/2023	12:28:01	Net
0.271	DBF-FG03	Debris - Fishing Gear	738927.58	1381531.88	15/04/2023	12:36:58	Net
0.277	DBF-FG04	Debris - Fishing Gear	738926.54	1381537.13	15/04/2023	12:39:04	Net
0.279	DBF-FT03	Debris - Fish Trap	738925.48	1381538.73	15/04/2023	13:42:28	No Additional Comment
0.280	DBF-FT04	Debris - Fish Trap	738923.79	1381539.92	15/04/2023	13:49:10	No Additional Comment
0.283	DBF-FT05	Debris - Fish Trap	738922.80	1381542.63	15/04/2023	13:50:10	No Additional Comment
0.287	DBF-FT06	Debris - Fish Trap	738921.81	1381546.02	15/04/2023	13:51:15	No Additional Comment
0.305	DBF-FG05	Debris - Fishing Gear	738916.75	1381563.87	15/04/2023	13:54:48	No Additional Comment
0.345	DBF-FG06	Debris - Fishing Gear	738908.47	1381602.67	15/04/2023	14:00:34	No Additional Comment
0.348	DBF-FG07	Debris - Fishing Gear	738906.66	1381605.33	15/04/2023	14:03:49	No Additional Comment
0.353	DBF-FG08	Debris - Fishing Gear	738905.71	1381610.39	15/04/2023	14:05:09	No Additional Comment
0.458	DBF-FG09	Debris - Fishing Gear	738877.59	1381711.91	15/04/2023	14:18:57	No Additional Comment
0.496	DBF-FG10	Debris - Fishing Gear	738869.02	1381748.64	15/04/2023	15:23:23	No Additional Comment
0.559	DBF-FG11	Debris - Fishing Gear	738852.73	1381809.85	15/04/2023	15:30:53	No Additional Comment
0.655	DBF-FG12	Debris - Fishing Gear	738826.82	1381902.43	17/04/2023	10:18:16	Net
0.663	DBF-FG13	Debris - Fishing Gear	738824.76	1381909.84	17/04/2023	10:19:09	Net
0.672	DBF-FG14	Debris - Fishing Gear	738822.89	1381918.17	17/04/2023	10:20:33	Net
0.676	DBF-FG15	Debris - Fishing Gear	738821.71	1381922.60	17/04/2023	10:21:28	Net
0.702	DBF-FG16	Debris - Fishing Gear	738815.65	1381947.38	17/04/2023	10:24:43	No Additional Comment
0.709	DBF-FG17	Debris - Fishing Gear	738813.69	1381954.23	17/04/2023	10:24:32	No Additional Comment
0.712	DBF-FG18	Debris - Fishing Gear	738812.54	1381957.67	17/04/2023	10:25:06	No Additional Comment
0.719	DBF-FG19	Debris - Fishing Gear	738810.33	1381962.95	17/04/2023	10:25:44	No Additional Comment
0.721	DBF-FG20	Debris - Fishing Gear	738810.33	1381966.16	17/04/2023	10:26:15	No Additional Comment
0.731	DBF-FG21	Debris - Fishing Gear	738808.27	1381975.33	17/04/2023	10:28:24	No Additional Comment
0.775	DBF-FG22	Debris - Fishing Gear	738796.63	1382018.02	17/04/2023	10:31:17	No Additional Comment
0.837	DBF-FG23	Debris - Fishing Gear	738780.47	1382078.25	17/04/2023	10:37:21	No Additional Comment
1.228	DBF-FG24	Debris - Fishing Gear	738678.92	1382455.97	17/04/2023	11:41:38	No Additional Comment
1.283	DBF-FG25	Debris - Fishing Gear	738665.63	1382508.71	17/04/2023	11:46:27	No Additional Comment
1.351	DBF-FG26	Debris - Fishing Gear	738640.72	1382574.99	17/04/2023	11:51:45	No Additional Comment
1.369	DBF-FG27	Debris - Fishing Gear	738643.69	1382591.60	17/04/2023	11:53:01	No Additional Comment
1.450	DBF-FG28	Debris - Fishing Gear	738624.08	1382671.07	17/04/2023	12:01:14	No Additional Comment
1.469	DBF-FG29	Debris - Fishing Gear	738619.35	1382688.76	17/04/2023	12:02:34	No Additional Comment
1.569	DBF-FG30	Debris - Fishing Gear	738594.18	1382785.82	17/04/2023	13:58:21	No Additional Comment
1.673	DBF-FG31	Debris - Fishing Gear	738566.38	1382885.98	17/04/2023	14:41:57	No Additional Comment
2.173	DBF-FG32	Debris - Fishing Gear	738440.17	1383369.92	17/04/2023	15:59:07	No Additional Comment
2.539	DBF-FG33	Debris - Fishing Gear	738346.52	1383723.37	18/04/2023	09:37:25	No Additional Comment



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Table of Metallic & Non-Metallic Debris

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.049	DB-N01	Debris - Netting	738989.05	1381515.23	13/04/2023	13:06:22	No Additional Comment
0.073	DB-N02	Debris - Netting	738975.49	1381338.90	13/04/2023	14:45:23	No Additional Comment
0.078	DB-S001	Debris - Soft Debris	738973.59	1381344.09	13/04/2023	14:47:02	No Additional Comment
0.124	DB-N03	Debris - Netting	738960.92	1381388.22	13/04/2023	15:06:24	No Additional Comment
0.137	DB-N04	Debris - Netting	738957.77	1381401.04	13/04/2023	15:09:49	No Additional Comment
0.141	DB-O01	Debris - Other	738956.87	1381404.52	13/04/2023	15:10:32	No Additional Comment
0.171	DB-N05	Debris - Netting	738949.79	1381433.57	13/04/2023	15:15:20	No Additional Comment
0.180	DB-N06	Debris - Netting	738947.57	1381442.22	13/04/2023	15:16:43	No Additional Comment
0.188	DB-P01	Debris - Pipe	738951.92	1381452.21	15/04/2023	12:22:18	No Additional Comment
0.191	DB-O02	Debris - Other	738947.86	1381454.29	15/04/2023	12:24:17	Basket
0.206	DB-O03	Debris - Other	738944.53	1381468.36	15/04/2023	12:26:52	No Additional Comment
0.246	DB-O04	Debris - Other	738933.88	1381507.14	15/04/2023	12:32:25	No Additional Comment
0.256	DB-O05	Debris - Other	738931.61	1381516.51	15/04/2023	12:34:21	No Additional Comment
0.274	DB-O06	Debris - Other	738927.05	1381533.96	15/04/2023	12:37:53	No Additional Comment
0.401	DB-SR01	Debris - Soft Rope	738892.82	1381656.77	15/04/2023	14:13:09	No Additional Comment
0.461	DB-DF01	Debris - Debris Field	738877.34	1381714.43	15/04/2023	14:20:01	No Additional Comment
0.869	DB-N07	Debris - Netting	738772.15	1382108.40	17/04/2023	10:58:41	No Additional Comment
1.256	DB-SD02	Debris - Soft Debris	738672.46	1382482.80	17/04/2023	11:44:33	No Additional Comment
1.636	DB-SD03	Debris - Soft Debris	738576.68	1382850.95	17/04/2023	14:20:42	No Additional Comment
1.649	DB-N08	Debris - Netting	738575.32	1382882.73	17/04/2023	14:22:34	No Additional Comment
1.692	DB-SR02	Debris - Soft Rope	738561.96	1382904.31	17/04/2023	14:43:19	No Additional Comment
1.704	DB-SR03	Debris - Soft Rope	738559.68	1382916.26	17/04/2023	14:44:35	No Additional Comment
2.272	DB-SR04	Debris - Soft Rope	738416.29	1383466.21	18/04/2023	08:35:25	No Additional Comment
2.393	DB-O07	Debris - Other	738384.99	1383583.29	18/04/2023	08:46:35	No Additional Comment
2.463	DB-SR05	Debris - Soft Rope	738366.31	1383650.22	18/04/2023	09:07:55	No Additional Comment
4.733	DB-SR06	Debris - Soft Rope	737789.38	1385846.08	18/04/2023	15:11:35	No Additional Comment
5.094	DB-SR07	Debris - Soft Rope	737698.27	1386194.63	18/04/2023	15:39:50	No Additional Comment
5.559	DB-SR08	Debris - Soft Rope	737579.50	1386645.18	19/04/2023	08:56:58	No Additional Comment
6.067	DB-O08	Debris - Other	737450.94	1387136.17	19/04/2023	09:37:27	Metal Rod
6.221	DB-SR09	Debris - Soft Rope	737411.87	1387284.91	19/04/2023	09:49:22	No Additional Comment
6.533	DB-O09	Debris - Other	737332.12	1387587.13	19/04/2023	10:08:16	Canvas Sheet
6.902	DB-SR10	Debris - Soft Rope	737238.39	1387943.45	19/04/2023	11:02:35	No Additional Comment
6.953	DB-SR11	Debris - Soft Rope	737225.29	1387992.86	19/04/2023	11:05:40	No Additional Comment
7.562	DB-SR12	Debris - Soft Rope	737069.62	1388582.16	19/04/2023	13:32:18	No Additional Comment
7.745	DB-SR13	Debris - Soft Rope	737022.67	1388758.52	19/04/2023	13:43:19	No Additional Comment
8.233	DB-SR14	Debris - Soft Rope	736998.80	1389230.40	19/04/2023	14:48:16	No Additional Comment
9.010	DB-H001	Debris - Hard Debris	736699.17	1389981.19	19/04/2023	16:16:57	No Additional Comment
9.036	DB-WR01	Debris - Wire Rope	736692.68	1390006.91	19/04/2023	16:19:27	No Additional Comment
9.247	DB-WR02	Debris - Wire Rope	736640.31	1390211.61	22/04/2023	09:27:17	No Additional Comment



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KP	Abbreviation	Description	East	North	Date	Time	Comments
2.848	DBF-FG34	Debris - Fishing Gear	738268.56	1384023.22	18/04/2023	10:40:20	No Additional Comment
3.131	DBF-FG35	Debris - Fishing Gear	738195.87	1384296.12	18/04/2023	11:03:45	No Additional Comment
3.387	DBF-FG36	Debris - Fishing Gear	738130.22	1384543.20	18/04/2023	11:36:40	No Additional Comment
3.442	DBF-FG37	Debris - Fishing Gear	738115.94	1384596.61	18/04/2023	11:41:46	No Additional Comment
3.815	DBF-FG38	Debris - Fishing Gear	738023.46	1384958.00	18/04/2023	13:36:31	No Additional Comment
4.445	DBF-FG39	Debris - Fishing Gear	737864.06	1385567.93	18/04/2023	14:31:01	No Additional Comment
4.474	DBF-FG40	Debris - Fishing Gear	737856.35	1385596.10	18/04/2023	14:33:26	No Additional Comment
4.559	DBF-FG41	Debris - Fishing Gear	737833.88	1385677.24	18/04/2023	14:58:20	No Additional Comment
4.817	DBF-FG42	Debris - Fishing Gear	737767.97	1385926.91	18/04/2023	15:18:20	No Additional Comment
4.914	DBF-FT07	Debris - Fish Trap	737744.10	1386020.71	18/04/2023	15:25:09	Sitting on pipeline
5.152	DBF-FG43	Debris - Fishing Gear	737683.66	1386251.39	18/04/2023	15:43:27	No Additional Comment
5.304	DBF-FG44	Debris - Fishing Gear	737644.27	1386398.58	19/04/2023	08:16:34	No Additional Comment
6.108	DBF-FG45	Debris - Fishing Gear	737440.48	1387175.63	19/04/2023	09:40:02	No Additional Comment
6.849	DBF-FG46	Debris - Fishing Gear	737252.18	1387892.83	19/04/2023	10:59:04	Net
7.835	DBF-FG47	Debris - Fishing Gear	736999.79	1388845.41	19/04/2023	14:07:16	No Additional Comment
7.857	DBF-FG48	Debris - Fishing Gear	736994.17	1388867.24	19/04/2023	14:08:58	No Additional Comment
8.175	DBF-FG49	Debris - Fishing Gear	736911.77	1389174.21	19/04/2023	14:44:12	No Additional Comment
8.253	DBF-FG50	Debris - Fishing Gear	736893.16	1389249.31	19/04/2023	14:49:50	No Additional Comment
8.354	DBF-FG51	Debris - Fishing Gear	736867.45	1389347.57	19/04/2023	14:57:23	No Additional Comment
8.609	DBF-FG52	Debris - Fishing Gear	736801.38	1389594.29	19/04/2023	15:23:40	No Additional Comment
9.073	DBF-FG53	Debris - Fishing Gear	736683.97	1390043.07	22/04/2023	09:13:49	No Additional Comment
9.204	DBF-FG54	Debris - Fishing Gear	736651.27	1390169.74	22/04/2023	09:23:40	No Additional Comment
9.255	DBF-FG55	Debris - Fishing Gear	736638.23	1390218.47	22/04/2023	09:28:20	No Additional Comment
9.674	DBF-FG56	Debris - Fishing Gear	736532.25	1390623.70	22/04/2023	09:52:38	No Additional Comment
9.682	DBF-FG57	Debris - Fishing Gear	736530.04	1390632.11	22/04/2023	09:53:17	No Additional Comment
9.732	DBF-FG58	Debris - Fishing Gear	736517.01	1390680.06	22/04/2023	09:55:59	No Additional Comment
9.736	DBF-FG59	Debris - Fishing Gear	736516.02	1390683.70	22/04/2023	09:56:18	No Additional Comment
9.749	DBF-FG60	Debris - Fishing Gear	736512.94	1390696.32	22/04/2023	09:57:12	No Additional Comment
9.902	DBF-FG61	Debris - Fishing Gear	736473.65	1390844.35	22/04/2023	10:05:09	No Additional Comment
10.273	DBF-FG62	Debris - Fishing Gear	736379.50	1391203.89	22/04/2023	10:26:56	No Additional Comment
10.319	DBF-FG63	Debris - Fishing Gear	736367.74	1391247.42	22/04/2023	10:31:05	No Additional Comment
11.037	DBF-FG64	Debris - Fishing Gear	736184.72	1391942.05	22/04/2023	11:12:08	No Additional Comment
11.534	DBF-FT08	Debris - Fish Trap	736058.06	1392422.88	22/04/2023	12:54:41	No Additional Comment
12.062	DBF-FG65	Debris - Fishing Gear	735924.24	1392533.39	22/04/2023	13:29:55	No Additional Comment
12.095	DBF-FT09	Debris - Fish Trap	735915.33	1392965.13	22/04/2023	13:31:54	Sitting on top of pipeline
12.270	DBF-FG66	Debris - Fishing Gear	735870.71	1393134.70	22/04/2023	13:46:58	No Additional Comment
12.489	DBF-FG67	Debris - Fishing Gear	735816.30	1393347.02	23/04/2023	11:49:24	No Additional Comment
12.535	DBF-FG68	Debris - Fishing Gear	735804.77	1393390.70	23/04/2023	11:51:40	No Additional Comment
12.978	DBF-FT10	Debris - Fish Trap	735692.10	1393819.84	23/04/2023	12:20:08	No Additional Comment
14.794	DBF-FT11	Debris - Fish Trap	735229.01	1395575.96	23/04/2023	14:22:19	No Additional Comment



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KP	Abbreviation	Description	East	North	Date	Time	Comments
9.417	DB-SR15	Debris - Soft Rope	736596.51	1390375.85	22/04/2023	09:38:50	No Additional Comment
9.572	DB-SR16	Debris - Soft Rope	736557.15	1395525.78	22/04/2023	08:47:42	No Additional Comment
9.985	DB-SR17	Debris - Soft Rope	736598.71	1390408.71	22/04/2023	08:55:22	No Additional Comment
10.597	DB-WR03	Debris - Wire Rope	736295.86	1391616.09	22/04/2023	10:45:58	No Additional Comment
11.033	DB-WR04	Debris - Wire Rope	736185.44	1391938.39	22/04/2023	11:11:50	No Additional Comment
11.219	DB-SR18	Debris - Soft Rope	736137.96	1392118.11	22/04/2023	12:30:35	No Additional Comment
12.023	DB-SD04	Debris - Soft Debris	735832.24	1392895.66	22/04/2023	12:27:51	No Additional Comment
12.195	DB-SR19	Debris - Soft Rope	735890.13	1392141.91	22/04/2023	13:46:46	No Additional Comment
12.348	DB-WR05	Debris - Wire Rope	735851.55	1392310.12	22/04/2023	13:52:31	No Additional Comment

การตรวจสอบเส้นท่อส่วนที่ลอย (Floating Hose)



Star Petroleum Refining Public Co., Ltd

Hydrostatic Test Certificate
(SPM)

Report No. 01/2024 Rev: 0

This is hereby certified that the SPM Floating Hose Port, Starboard String and Submarine hoses as per S/N listed in attachment below were hydro static tested in accordance with HC-WI-PD-6091 Plant 65 Procedure for Hydrostatic Pressure Test of SPM Hose System

Testing Condition and Parameter:**Required Test Pressure:** 15.75 Kg/Cm2**Holding Time:** 5 hours**Testing Fluid:** Sea water with Fluorescein dye**Test Section:** Full hydrotest of both Port, Starboard String Hose and Submarine hoses including related components within the test loop.**Work Sequence**

- Close moon pool valve, Port & Starboard Deck Valve and Open cross over line valve, then install pressure gauges. One (1) PG installed at the top of cross over pipe. Two (2) PG installed at the end flange of floating hose together with Digital Pressure Recorder.

Pressure Gauges Data:

- PG#1: Range 0-40 Kg/Cm2 S/N No. 96PI1005 Calibrated date 11/01/2024. Next due 11/07/2024 (Analog)
- PG#2 Range 0-40 Kg/Cm2 S/N No. 96PI1006 Calibrated date 11/01/2024. Next due 11/07/2024 (Analog)
- PG#3 Range 0-40 Kg/Cm2 S/N No. 96PI1007 Calibrated date 11/01/2024. Next due 11/07/2024 (Analog)
- PG#4 Range 0-40 Kg/Cm2 S/N No. 96PI1008 Calibrated date 11/01/2024. Next due 11/07/2024 (Analog)
- PG#4 S/N No. 960910 Calibrated date 06/12/2024. Next due 06/06/2024 (Digital Recordable)

Observation & Test Results

After both string hoses fully filled water as mixed with fluorescent dye then operator eliminated the air at vent nozzle at the Buoy (highest position). The pressure was slowly built up until reaching the required test pressure at 15.75-16.5 Kg/Cm 2 (swing pressure) and holding for 5 hours under witnessing by ABS Surveyor and SPRC Representatives. No leak found. Justification: Accepted.

Test Date: 1 Feb 2024**Started Holding Time:** 12:10 Hours**Finished Holding Time:** 17:10 Hours

	Acknowledge	Co-Witnessed by:	Co-Witnessed by:	Witnessed by:
Name				
Signature				
Date	1 Feb 2024	1 Feb 2024	1 Feb 2024	1 Feb 2024
Company	SPRC, PM Manager	SPRC Inspection Engineer	PTTGC Inspection Engineer	ABS Surveyor

Hose Sequence

Port String Floating Hose										1-Feb-2024
No	Type	Serial No.	Size	Last Position	Mnf.	1st Install Date Installed	Service Time (Day)	2nd Install Date Installed	Service Time (Day)	Total Service Time (Day)
1	First-Off	02-23-012	24" x 30'	New	Ailagomma					0
2	Second-Off	02-23-014	24" x 35'	New	Ailagomma					0
3	Mainline	02-23-015	24" x 35'	New	Ailagomma					0
4	Mainline	02-23-016	24" x 35'	New	Ailagomma					0
5	Mainline	02-23-017	24" x 35'	New	Ailagomma					0
6	Mainline	02-23-018	24" x 35'	New	Ailagomma					0
7	Mainline	02-23-073	24" x 35'	New	Ailagomma					0
8	Mainline	02-23-074	24" x 35'	New	Ailagomma					0
9	Mainline	02-23-075	24" x 35'	New	Ailagomma					0
10	Mainline	02-23-076	24" x 35'	New	Ailagomma					0
11	Mainline	02-23-078	24" x 35'	New	Ailagomma					0
12	Mainline	02-23-079	24" x 35'	New	Ailagomma					0
13	Mainline	02-23-080	24" x 35'	New	Ailagomma					0
14	Mainline	02-23-081	24" x 35'	New	Ailagomma					0
15	Mainline	02-23-082	24" x 35'	New	Ailagomma					0
16	Mainline	02-23-083	24" x 35'	New	Ailagomma					0
17	Mainline	02-23-084	24" x 35'	New	Ailagomma					0
18	Mainline	02-23-085	24" x 35'	New	Ailagomma					0
19	Mainline	02-23-087	24" x 35'	New	Ailagomma					0
20	Mainline	02-23-089	24" x 35'	New	Ailagomma					0
21	Mainline	02-23-090	24" x 35'	New	Ailagomma					0
22	Mainline	02-23-091	24" x 35'	New	Ailagomma					0
23	24"116" Taper	02-23-020	24/16" x 35'	New	Ailagomma					0
24	Breakaway	GTM 2308	16"	Refurbished	Gall Thomson					0
25	Extra Buoyancy	02-23-022	16" x 30'	New	Ailagomma					0
26	Tail	02-23-023	16" x 30'	26P	Ailagomma					0
27	Tail	02-23-024	16" x 30'	25P	Ailagomma					0
28	Tail	02-23-025	16" x 30'	26S	Ailagomma					0
29	Tail	02-23-026	16" x 30'	27S	Ailagomma					0
30	Tanker Rail	02-23-027	16" x 30'	New	Ailagomma					0

Port String Subsea Hose - (WEST)

No	Type	Serial No.	Size	Last Position	Mnf.	1st Install Date Installed	Service Time (Day)	2nd Install Date Installed	Service Time (Day)	Total Service Time (Day)
1	Subsea Reinforced	10-22-204	24" x 35'	New	Ailagomma					#VALUE!
2	Subsea Standard	12-22-244	24" x 35'	New	Ailagomma					0
3	Subsea Reinforced	10-22-208	24" x 35'	New	Ailagomma					0

Hose Sequence

Starboard String Floating Hose										1-Feb-2024
No	Type	Serial No.	Size	Last Position	Mnf.	1st Install		2nd Install		Total Service Time (Day)
						Date Installed	Service Time (Day)	Date Installed	Service Time (Day)	
1	First-Off	02-22-196	24" x 35'	New	Ailagomma					0
2	Second-Off	02-22-194	24" x 35'	New	Ailagomma					0
3	Mainline	02-22-167	24" x 35'	New	Ailagomma					0
4	Mainline	02-22-168	24" x 35'	New	Ailagomma					0
5	Mainline	02-22-169	24" x 35'	New	Ailagomma					0
6	Mainline	02-22-170	24" x 35'	New	Ailagomma					0
7	Mainline	02-22-171	24" x 35'	New	Ailagomma					0
8	Mainline	02-22-172	24" x 35'	New	Ailagomma					0
9	Mainline	02-22-173	24" x 35'	New	Ailagomma					0
10	Mainline	02-22-174	24" x 35'	New	Ailagomma					0
11	Mainline	02-22-175	24" x 35'	New	Ailagomma					0
12	Mainline	02-22-176	24" x 35'	New	Ailagomma					0
13	Mainline	02-22-177	24" x 35'	New	Ailagomma					0
14	Mainline	02-22-178	24" x 35'	New	Ailagomma					0
15	Mainline	02-22-179	24" x 35'	New	Ailagomma					0
16	Mainline	02-22-180	24" x 35'	New	Ailagomma					0
17	Mainline	02-22-181	24" x 35'	New	Ailagomma					0
18	Mainline	02-22-182	24" x 35'	New	Ailagomma					0
19	Mainline	02-22-183	24" x 35'	New	Ailagomma					0
20	Mainline	02-22-184	24" x 35'	New	Ailagomma					0
21	Mainline	02-22-185	24" x 35'	New	Ailagomma					0
22	24"/16" Taper	03-23-048	24/16" x 35'	New	Ailagomma					0
23	Breakaway	GTM 2117	16"	Refurbished	Gall Thomson					0
24	Extra Buoyancy	02-22-187	16" x 30'	New	Ailagomma					0
25	Tail	02-22-188	16" x 30'	New	Ailagomma					0
26	Tail	02-22-190	16" x 30'	New	Ailagomma					0
27	Tail	02-22-191	16" x 30'	New	Ailagomma					0
28	Tail	03-23-049	16" x 30'	New	Ailagomma					0
29	Tanker Rail	02-22-186	16" x 30'	New	Ailagomma					0

Starboard String Subsea Hose - (EAST)										
No	Type	Serial No.	Size	Last Position	Mnf.	1st Install		2nd Install		Total Service Time (Day)
						Date Installed	Service Time (Day)	Date Installed	Service Time (Day)	
1	Subsea Reinforced	10-22-203	24" x 35'	New	Ailagomma					0
2	Subsea Standard	12-22-243	24" x 35'	New	Ailagomma					0
3	Subsea Reinforced	10-22-207	24" x 35'	New	Ailagomma					0



Work Order: 5816250-A
First Visit Date: 17-Apr-2023
Last Visit Date: 17-May-2023
Vendor PO Number: Replacement
Survey Location: Ortona

Equipment Certification Report

Asset Type: Pipe
Customer Name: ALFAGOMMA OIL & MARINE SRL
WCN of Customer: 468816
Location: Ortona

This is to certify that the undersigned Surveyors to this Bureau did at the request of ALFAGOMMA OIL & MARINE SRL, from 17-Apr-2023 to 17-May-2023, carry out the following survey and report as follows:

Client Asset Name Quantity

Marine Rubber Hoses 1

Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel
Marine Rubber Hoses	ALFAGOMMA OIL & MARINE SRL	STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED	ALFAGOMMA OIL & MARINE SRL	-

Basic Identification Data

Serial Number	Owner Tag Number	Supplier Ref. Number
-	-	1802000070

Statement of Work - Classification Service - Certification -

- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

Report Findings**Statement/Observation**

Finding No	Asset	Survey Task	Date Created
53.0	-	Certification - Marine Rubber Hoses	17-May-2023

Found

NO. 2 (TWO) MARINE RUBBER HOSES AS SPECIFIED BELOW WERE SUBJECTED WITH SATISFACTORY RESULTS TO RANDOM INLINE INSPECTION AND, UPON COMPLETION, TO FINAL INSPECTION.

NOTE: This Report endorses that the survey reported herein was carried out in compliance with one or more of the Rules, guidelines, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material, equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guidelines, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, receiver, operator or other entity of any warranty express or implied.



Work Order: 5816250-A
First Visit Date: 17-Apr-2023
Last Visit Date: 17-May-2023
Vendor PO Number: Replacement
Survey Location: Ortona

FOLLOWING TESTS ACCORDING WITH GUIDE TO MANUFACTURING AND PURCHASING HOSES FOR OFFSHORE MOORINGS 5TH EDITION (GMPHOM 2009), PIM-SU-3092-G (CHEVRON) SPECIFICATION AND INSPECTION TEST PLAN ITP 22AG0052 REPLACEMENT Rev. 00 DATED 11 APRIL 2023:

NO. 1 (ONE) SAFEWAVE F SC M REDUCER EB SIZE 24"/16x35'

S. NO. 0223048

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (HOSE CONTINUOUS)

NO. 1 (ONE) SAFEWAVE F SC M TAIL SIZE 16"x30'

S. NO. 0223049

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (HOSE DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT

UPON SATISFACTORY COMPLETION OF TESTS, MANUFACTURER'S TEST REPORTS SIGNED.

Closing Paragraph:

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

Attending Surveyor(s):

De Angelis, Antonino
Signed-off Date: 17-May-2023

Reviewing Surveyor(s)

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Work Order: 5816250-A
First Visit Date: 17-Apr-2023
Last Visit Date: 17-May-2023
Vendor PO Number: Replacement
Survey Location: Ortona

Work Order Reviewer: Cappiello, Carmine
Work Order Credit Date: 22-May-2023



Work Order: 5689514-A
First Visit Date: 06-Mar-2023
Last Visit Date: 17-May-2023
Vendor PO Number: PO45050207
Survey Location: Ortona

Equipment Certification Report

Asset Type Pipe
Customer Name ALFAGOMMA OIL & MARINE SRL
WCN of Customer 468816
Location Ortona

This is to certify that the undersigned Surveyors to this Bureau did at the request of ALFAGOMMA OIL & MARINE SRL, from 06-Mar-2023 to 17-May-2023, carry out the following survey and report as follows:

Client Asset Name Quantity

Marine Rubber Hoses 1

Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel
Marine Rubber Hoses	ALFAGOMMA OIL & MARINE SRL	STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED	ALFAGOMMA OIL & MARINE SRL	-

Basic Identification Data

Serial Number	Owner Tag Number	Supplier Ref. Number
-	-	1802000064

Statement of Work - Classification Service - Certification -

- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Pressure and/or proof-load testing of the equipment/component was witnessed to the satisfaction of the attending Surveyor.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Pressure and/or proof-load testing of the equipment/component was witnessed to the satisfaction of the attending Surveyor.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

Report Findings

Statement/Observation

Finding No	Asset	Survey Task	Date Created
47.0	-	Certification - Marine Rubber Hoses	17-May-2023

Found

NOTE: This report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any relation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, sales, supplier, repairer, operator or other entity of any warranty, express or implied.

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Work Order: 5689514-A
First Visit Date: 06-Mar-2023
Last Visit Date: 17-May-2023
Vendor PO Number: PO45050207
Survey Location: Ortona

NO. 18 (EIGHTEEN) MARINE RUBBER HOSES AS SPECIFIED BELOW WERE SUBJECTED WITH SATISFACTORY RESULTS TO RANDOM INLINE INSPECTION OF 50% OF PRODUCTION AND, UPON COMPLETION, TO FINAL INSPECTION.

FOLLOWING TESTS ACCORDING WITH GUIDE TO MANUFACTURING AND PURCHASING HOSES FOR OFFSHORE MOORINGS 5TH EDITION (GMPHOM 2009), PIM-SU-3092-G (CHEVRON) SPECIFICATION AND INSPECTION TEST PLAN ITP 22AG0142 Rev. 01 DATED 06 MARCH 2023:

NO. 2 (TWO) SAFEWAVE F SC M FOB PU SIZE 24"x30'

S. NO. 0223011 - 0223012

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223011)
- BEND TEST (S. NO. 0223011)
- STIFFNESS TEST (S. NO. 0223011)
- TORSION TEST (S. NO. 0223011)
- TENSILE TEST (S. NO. 0223011)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 2 (TWO) SAFEWAVE F SC M MAINLINE PU SIZE 24"x35'

S. NO. 0223013 - 0223014

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223013)
- BEND TEST (S. NO. 0223013)
- STIFFNESS TEST (S. NO. 0223013)
- TORSION TEST (S. NO. 0223013)
- TENSILE TEST (S. NO. 0223013)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 4 (FOUR) SAFEWAVE F SC M MAINLINE SIZE 24"x35'

S. NO. 0223015 - 0223016 - 0223017 - 0223018

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223015)
- BEND TEST (S. NO. 0223015)
- STIFFNESS TEST (S. NO. 0223015)

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Work Order: 5689514-A
First Visit Date: 06-Mar-2023
Last Visit Date: 17-May-2023
Vendor PO Number: PO45050207
Survey Location: Ortona

- TORSION TEST (S. NO. 0223015)
- TENSILE TEST (S. NO. 0223015)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 2 (TWO) SAFEWAVE F SC M TAPER EB SIZE 24/16"x35"

S. NO. 0223019 - 0223020

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223019)
- BEND TEST (S. NO. 0223019)
- STIFFNESS TEST (S. NO. 0223019)
- TORSION TEST (S. NO. 0223019)
- TENSILE TEST (S. NO. 0223019)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES CONTINUOUS)

NO. 2 (TWO) SAFEWAVE F SC M TAIL EB SIZE 16"x30"

S. NO. 0223021 - 0223022

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223021)
- BEND TEST (S. NO. 0223021)
- STIFFNESS TEST (S. NO. 0223021)
- TORSION TEST (S. NO. 0223021)
- TENSILE TEST (S. NO. 0223021)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 4 (FOUR) SAFEWAVE F SC M TAIL SIZE 16"x30"

S. NO. 0223023 - 0223024 - 0223025 - 0223026

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223023)
- BEND TEST (S. NO. 0223023)

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Work Order: 5689514-A
First Visit Date: 06-Mar-2023
Last Visit Date: 17-May-2023
Vendor PO Number: PO45050207
Survey Location: Ortona

- STIFFNESS TEST (S. NO. 0223023)
- TORSION TEST (S. NO. 0223023)
- TENSILE TEST (S. NO. 0223023)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 2 (TWO) SAFEWAVE F SC M TANKER PU SIZE 16"x30"

S. NO. 0223027 - 0223028

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0223027)
- BEND TEST (S. NO. 0223027)
- STIFFNESS TEST (S. NO. 0223027)
- TORSION TEST (S. NO. 0223027)
- TENSILE TEST (S. NO. 0223027)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

UPON SATISFACTORY COMPLETION OF TESTS, MANUFACTURER'S TEST REPORTS SIGNED.

Closing Paragraph:

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

Attending Surveyor(s):

De Angelis, Antonino
Signed-off Date: 17-May-2023

Reviewing Surveyor(s)

Work Order Reviewer: Capiello, Carmine
Work Order Credit Date: 22-May-2023

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Work Order: 5457248-A
First Visit Date: 12-Sep-2022
Last Visit Date: 16-Nov-2022
Vendor PO Number: 45048759
Survey Location: Ortona

Equipment Certification Report

Asset Type Pipe
Customer Name ALFAGOMMA OIL & MARINE SRL
WCN of Customer 468816
Location Ortona

This is to certify that the undersigned Surveyors to this Bureau did at the request of ALFAGOMMA OIL & MARINE SRL, from 12-Sep-2022 to 16-Nov-2022, carry out the following survey and report as follows:

Client Asset Name Quantity
Marine Rubber Hoses 1

Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel
Marine Rubber Hoses	ALFAGOMMA OIL & MARINE SRL	STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED	ALFAGOMMA OIL & MARINE SRL	-

Basic Identification Data

Serial Number	Owner Tag Number	Supplier Ref. Number
-	-	1802000051

Statement of Work - Classification Service - Certification -

- All testing (pressure/load/operational/etc.) has been carried out in accordance with the applicable Rules/specifications.
- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Traceability of materials used on this project has been verified.

Report Findings

Statement/Observation

Finding No	Asset	Survey Task	Date Created
36.0	Marine Rubber Hoses	Certification - Marine Rubber Hoses	16-Nov-2022

Found

NO. 28 (TWENTYEIGHT) MARINE RUBBER HOSES AS SPECIFIED BELOW WERE SUBJECTED WITH SATISFACTORY RESULTS TO IN-LINE INSPECTION AND, UPON COMPLETION, TO FINAL INSPECTION.

FOLLOWING TESTS ACCORDING WITH GUIDE TO MANUFACTURING AND PURCHASING HOSES FOR OFFSHORE MOORINGS 5TH EDITION (GAMPHOM 2009), PIM-SU-3092-G (CHEVRON) SPECIFICATION AND INSPECTION TEST PLAN ITP 22AG0052 Rev.04 DATED 17 OCTOBER 2021.

NOTE: This Report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its conventions, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material, equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met, one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any statement made in contemplation of this Report shall be deemed to relieve any designers, builders, owners, manufacturers, sellers, suppliers, insurers, operators or other entity of any warranty express or implied.

1 of 4



Work Order: 5457248-A
First Visit Date: 12-Sep-2022
Last Visit Date: 16-Nov-2022
Vendor PO Number: 45048759
Survey Location: Ortona

2022:

NO. 19 (NINETEEN) SAFEWAVE F SC M MAIN SIZE 24"x35"

S. NOS. 0822167 - 0822168 - 0822169 - 0822170 - 0822171 - 0822172 - 0822173 - 0822174 - 0822175 - 0822176 - 0822177 - 0822178 - 0822179 - 0822180 - 0822181 - 0822182 - 0822183 - 0822184 - 0822185

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NOS. 0822167 - 0822177)
- BEND TEST (S. NOS. 0822168 - 0822177)
- STIFFNESS TEST (S. NOS. 0822168 - 0822177)
- TORSION TEST (S. NOS. 0822168 - 0822177)
- TENSILE TEST (S. NOS. 0822168 - 0822177)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 1 (ONE) SAFEWAVE SC F MAIN PU SIZE 24"x35"

S. NO. 0922194

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (HOSE CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT

NO. 1 (ONE) SAFEWAVE SC F FOB PU SIZE 24"x30"

S. NO. 0922195

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST

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Work Order: 5457248-A
First Visit Date: 12-Sep-2022
Last Visit Date: 16-Nov-2022
Vendor PO Number: 45048759
Survey Location: Ortona

- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (HOSE CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT

NO. 1 (ONE) SAFEWAVE F SC M REDUCER EB SIZE 24"/16"x35"

- S. NO. 0922195
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
 - ADHESION TEST
 - BEND TEST
 - STIFFNESS TEST
 - TORSION TEST
 - TENSILE TEST
 - KEROSENE TEST
 - VACUUM TEST
 - ELECTRICAL CONTINUITY TEST (HOSE CONTINUOUS)
 - FLANGE BOLT HOLE ALIGNMENT

NO. 1 (ONE) SAFEWAVE F SC M TAIL EB SIZE 16"x30"

- S. NO. 0822187
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
 - ADHESION TEST
 - BEND TEST
 - STIFFNESS TEST
 - TORSION TEST
 - TENSILE TEST
 - KEROSENE TEST
 - VACUUM TEST
 - ELECTRICAL CONTINUITY TEST (HOSE DISCONTINUOUS)
 - FLANGE BOLT HOLE ALIGNMENT

NO. 4 (FOUR) SAFEWAVE F SC M TAIL SIZE 16"x30"

- S. NO. 0922188 - 0922189 - 0922190 - 0922191
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
 - ADHESION TEST (S. NO. 0922188)
 - BEND TEST (S. NO. 0922188)
 - STIFFNESS TEST (S. NO. 0922188)

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Work Order: 5876370-A
First Visit Date: 01-Jun-2023
Last Visit Date: 28-Sep-2023
Vendor PO Number: 45051092
Survey Location: Ortona

Equipment Certification Report

Asset Type Pipe
Customer Name ALFAGOMMA OIL & MARINE SRL
WCN of Customer 468816
Location Ortona

This is to certify that the undersigned Surveyors to this Bureau did at the request of ALFAGOMMA OIL & MARINE SRL, from 01-Jun-2023 to 28-Sep-2023, carry out the following survey and report as follows:

Client Asset Name Quantity
Marine Rubber Hoses - 1 1

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel
Marine Rubber Hoses - 1	ALFAGOMMA OIL & MARINE SRL	STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED	ALFAGOMMA OIL & MARINE SRL	-

Basic Identification Data
Serial Number Supplier Ref. Number
- 1802000078

Statement of Work - Classification Service - Certification -

- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

Report Findings

Statement/Observation

Finding No	Asset	Survey Task	Date Created
56.0	-	Certification - Marine Rubber Hoses - 1	28-Sep-2023

Found
NO. 29 (TWENTYNINE) MARINE RUBBER HOSES AS SPECIFIED BELOW WERE SUBJECTED WITH SATISFACTORY RESULTS TO RANDOM INLINE INSPECTION OF 50% OF PRODUCTION AND, UPON COMPLETION, TO FINAL INSPECTION.

FOLLOWING TESTS ACCORDING WITH GUIDE TO MANUFACTURING AND PURCHASING HOSES FOR OFFSHORE MOORINGS 5TH EDITION (GMPHOM 2009), PIM-SU-3092-G (CHEVRON) SPECIFICATION AND INSPECTION TEST PLAN ITP 23AG0067 Rev. 00 DATED 30 MAY 2023:

NO. 1 (ONE) SAFEWAVE F SC M FOB PU SIZE 24"x30"
S. NO. 0523070

NOTE: This Report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its constituents, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and Standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any relation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any security measures or implied.

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Work Order: 5457248-A
First Visit Date: 12-Sep-2022
Last Visit Date: 16-Nov-2022
Vendor PO Number: 45048759
Survey Location: Ortona

- TORSION TEST (S. NO. 0922188)
- TENSILE TEST (S. NO. 0922188)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 1 (ONE) SAFEWAVE F SC M TANKER PU SIZE 16"x30"

- S. NO. 0822186
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
 - ADHESION TEST
 - BEND TEST
 - STIFFNESS TEST
 - TORSION TEST
 - TENSILE TEST
 - KEROSENE TEST
 - VACUUM TEST
 - ELECTRICAL CONTINUITY TEST (HOSE DISCONTINUOUS)
 - FLANGE BOLT HOLE ALIGNMENT

UPON SATISFACTORY COMPLETION OF TESTS, MANUFACTURER'S TEST REPORTS SIGNED.

Closing Paragraph:

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

Attending Surveyor(s):

De Angelis, Antonino
Signed-off Date: 17-Nov-2022

Reviewing Surveyor(s)

Work Order Reviewer: Cappelletto, Carmine
Work Order Credit Date: 18-Nov-2022

4 of 4



Work Order: 5876370-A
First Visit Date: 01-Jun-2023
Last Visit Date: 28-Sep-2023
Vendor PO Number: 45051092
Survey Location: Ortona

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT

NO. 1 (ONE) SAFEWAVE F SC M MAINLINE PU SIZE 24"x35"
S. NO. 0523071

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT

NO. 20 (TWENTY) SAFEWAVE F SC M MAINLINE SIZE 24"x35"

S. NO. 0523072 - 0523073 - 0523074 - 0523075 - 0523076 - 0523077 - 0523078 - 0523079 - 0523080 - 0523081 - 0523082 - 0523083 - 0523084 - 0523085 - 0523086 - 0523087 - 0523088 - 0523089 - 0523090 - 0523091

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0523074 - 0523082)
- BEND TEST (S. NO. 0523072 - 0523082)
- STIFFNESS TEST (S. NO. 0523072 - 0523082)
- TORSION TEST (S. NO. 0523072 - 0523082)
- TENSILE TEST (S. NO. 0523072 - 0523082)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES CONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 1 (ONE) SAFEWAVE F SC M TAPER EB 24"/16"x 35"
S. NO. 0523092

2 of 4



Work Order: 5876370-A
First Visit Date: 01-Jun-2023
Last Visit Date: 28-Sep-2023
Vendor PO Number: 45051092
Survey Location: Ortona

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (CONTINUOUS)
NO. 1 (ONE) SAFEWAVE F SC M TAIL EB SIZE 16"x30"
S. NO. 0523093

- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST
- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT
NO. 4 (FOUR) SAFEWAVE F SC M TAIL SIZE 16"x30"
S. NO. 0523094 - 0523095 - 0523096 - 0523097
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 0523094)
- BEND TEST (S. NO. 0523094 - 0523097)
- STIFFNESS TEST (S. NO. 0523094 - 0523097)
- TORSION TEST (S. NO. 0523094 - 0523097)
- TENSILE TEST (S. NO. 0523094 - 0523097)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)
NO. 1 (ONE) SAFEWAVE F SC M TANKER PU SIZE 16"x30"
S. NO. 0523098
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT
- ADHESION TEST

3 of 4



Work Order: 5876370-A
First Visit Date: 01-Jun-2023
Last Visit Date: 28-Sep-2023
Vendor PO Number: 45051092
Survey Location: Ortona

- BEND TEST
- STIFFNESS TEST
- TORSION TEST
- TENSILE TEST
- KEROSENE TEST
- VACUUM TEST
- ELECTRICAL CONTINUITY TEST (DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT
UPON SATISFACTORY COMPLETION OF TESTS, MANUFACTURER'S TEST REPORTS SIGNED.

Closing Paragraph:
The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

Attending Surveyor(s):
De Angelis, Antonino
Signed-off Date: 28-Sep-2023

Reviewing Surveyor(s)
Work Order Reviewer: Cappiello, Carmine
Work Order Credit Date: 29-Sep-2023

4 of 4



Work Order: 5552983-A
First Visit Date: 16-Nov-2022
Last Visit Date: 02-Mar-2023
Vendor PO Number: 45048938
Survey Location: Ortona

Equipment Certification Report

Asset Type Pipe
Customer Name ALFAGOMMA OIL & MARINE SRL
WCN of Customer 468816
Location Ortona

This is to certify that the undersigned Surveyors to this Bureau did at the request of ALFAGOMMA OIL & MARINE SRL, from 16-Nov-2022 to 02-Mar-2023, carry out the following survey and report as follows:

Client Asset Name Quantity
Marine Rubber Hoses - 1

Name Plate Data

ABS Label	Manufacturer	Purchaser	Designer	Destination Vessel
Marine Rubber Hoses - 1	ALFAGOMMA OIL & MARINE SRL	STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED	ALFAGOMMA OIL & MARINE SRL	-

Basic Identification Data

Serial Number	Owner Tag Number	Supplier Ref. Number
-	-	1802000053

Statement of Work - Classification Service - Certification -

- Testing machines are maintained in a satisfactory condition and records of their recheck or calibration dates confirmed.
- Pressure and/or proof-load testing of the equipment/component was witnessed to the satisfaction of the attending Surveyor.
- Material test reports (MTR) were reviewed and found to be the satisfaction of the attending Surveyor. Where required by the Rules, ABS material certification reports have been verified.

Report Findings

Statement/Observation

Finding No	Asset	Survey Task	Date Created
39.0	Marine Rubber Hoses - 1	Certification - Marine Rubber Hoses - 1	02-Mar-2023

Found

NO. 6 (SIX) MARINE RUBBER HOSES AS SPECIFIED BELOW WERE SUBJECTED WITH SATISFACTORY RESULTS TO INLINE INSPECTION AND, UPON COMPLETION, TO FINAL INSPECTION.

FOLLOWING TESTS ACCORDING WITH GUIDE TO MANUFACTURING AND PURCHASING HOSES FOR OFFSHORE MOORINGS 5TH EDITION (GMPHOM 2009), PIM-SU-3092-G (CHEVRON) SPECIFICATION AND INSPECTION TEST PLAN ITP 22AG0056 Rev. 02 DATED 16 NOVEMBER

NOTE: This Report evidences that the survey reported herein was carried out in compliance with one or more of the Rules, guides, standards or other criteria of the American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Report is a representation only that the vessel, structure, item of material equipment, machinery or any other item covered by this Report has been examined for compliance with, or has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this Report is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Report or in any notation made in contemplation of this Report shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.

1 of 3



Work Order: 5552983-A
First Visit Date: 16-Nov-2022
Last Visit Date: 02-Mar-2023
Vendor PO Number: 45048938
Survey Location: Ortona

2022:

NO. 2 (TWO) SAFEWAVE S SC M FOB PU SIZE 24"x35"
S. NO. ~~1022203~~ - ~~1022204~~
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 1022203)
- BEND TEST (S. NO. 1022203)
- STIFFNESS TEST (S. NO. 1022203)
- TORSION TEST (S. NO. 1022203)
- TENSILE TEST (S. NO. 1022203)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 2 (TWO) SAFEWAVE S SC M FOP C PU SIZE 24"x35"
S. NO. ~~1022207~~ - ~~1022208~~
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 1022207)
- BEND TEST (S. NO. 1022207)
- STIFFNESS TEST (S. NO. 1022207)
- TORSION TEST (S. NO. 1022207)
- TENSILE TEST (S. NO. 1022207)
- KEROSENE TEST (ALL HOSES)
- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

NO. 2 (TWO) SAFEWAVE S SC M MAILINE C PU SIZE 24"x35"
S. NO. ~~1222243~~ - ~~1222244~~
- HYDROSTATIC TEST WITH ELONGATION MEASUREMENT (ALL HOSES)
- ADHESION TEST (S. NO. 1222243)
- BEND TEST (S. NO. 1222243)
- STIFFNESS TEST (S. NO. 1222243)
- TORSION TEST (S. NO. 1222243)
- TENSILE TEST (S. NO. 1222243)
- KEROSENE TEST (ALL HOSES)

2 of 3



Work Order: 5552983-A
First Visit Date: 16-Nov-2022
Last Visit Date: 02-Mar-2023
Vendor PO Number: 45048938
Survey Location: Ortona

- VACUUM TEST (ALL HOSES)
- ELECTRICAL CONTINUITY TEST (ALL HOSES DISCONTINUOUS)
- FLANGE BOLT HOLE ALIGNMENT (ALL HOSES)

UPON SATISFACTORY COMPLETION OF TESTS, MANUFACTURER'S TEST REPORTS SIGNED.

Closing Paragraph:

The component/equipment was surveyed in accordance with the Rules, specifications, and approved drawings, as applicable, and is eligible for installation on board an ABS classed vessel subject to satisfactory installation and testing, as necessary.

Attending Surveyor(s):

De Angella, Antonio
Signed-off Date: 02-Mar-2023

Reviewing Surveyor(s)

Work Order Reviewer: Cappiello, Carmine
Work Order Credit Date: 07-Mar-2023

CERTIFICATE OF CALIBRATION



Issued By: Marske Machine Hire & Calibration Centre
Date of Issue: 06 December 2023

Certificate Number
P232859

Page 1 of 2 Pages

Marske Machine (Thailand) Co., Ltd
267/382-383 Sukhumvit Rd., MapTaPhut
Muangrayong, Rayong 21150
Tel : (038) 682992-3, (038) 691563-4 Fax : (038) 682988
Email : sales@mmc-thai.com

Approved Signature:

☐ Prast K. ☒ Marat L.

Customer : CR3 (Thailand) Co., Ltd.
15/1 Moo 3 Bankoh-Mabkha, T. Mapkha Nikompattana Sub. Rayong
21180

Date Received : 02 December 2023

Instrument -	System ID :	PC13068	Job Number :	0000235538
	Description :	Digital Test Gauge	Ref. Number :	CRAT-DG-003
	Manufacturer :	Crystal		
	Model Number :	0 to 3000 PSI		
	Serial Number :	960910	Last Certificate Number :	P223084
Procedure Version :	PP0001	Last Calibration Date :	30/11/2022	

Environmental Conditions

Temperature : 23°C +/- 2°C
Relative Humidity : 50% +/- 15%

Mains Voltage : 220V +/- 20V
Mains Frequency : 50Hz +/- 1Hz

Comments

Instrument (UUC) was placed in lab and allowed to stabilize before calibration.
Reference level has been set at UUC's inlet and calibrated in vertical position.
Hydraulic oil with density 870 kg/m³ has been used as media for calibration.
All test pass manufacturer's specification.

Traceability Information

Instrument description	Serial number	Certificate number	Cal. Date	Cal. Period
CPS5800 Dead-Weight Tester (Lab)	770N	MP-0038-21	05/03/2021	156

Calibrated By : Woraphon Y.

Date of Calibration : 06 December 2023

This Certificate provides traceability of measurement to the SI System of units, and to the units of measurement realized at the National Physical Laboratory or other recognized National Standard Laboratories.
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CERTIFICATE OF CALIBRATION



Certificate Number
P232859

Page 2 of 2 Pages

Test Title	Tolerance	STD Value	UUC Reading	% Of Spec.	Uncertainties
------------	-----------	-----------	-------------	------------	---------------

Calibration Information

The uncertainty limits quoted refer to the measured values only, with no account being taken of the instrument ability to maintain its calibration.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by a coverage factor $k=2$ corresponding to a coverage probability of approximately 95%.

Units :

The SI unit of pressure is the pascal. To convert from pascal to PSI multiply by 0.0001450377.

Calibration Method :


The instrument was calibrated in accordance with the instruction based on DKD R6-1.

Function : Pressure Measurement (Mean Value Including Hysteresis)
Range : 0 to 3000 PSI

0 PSI	0.60PSI	0.00PSI	0.0PSI	0%	0.21PSI
300 PSI	0.60PSI	299.21PSI	299.2PSI	2%	0.21PSI
600 PSI	0.60PSI	598.43PSI	598.4PSI	5%	0.21PSI
900 PSI	0.90PSI	897.51PSI	897.4PSI	12%	0.21PSI
1200 PSI	1.2PSI	1196.26PSI	1196.2PSI	4%	0.21PSI
1500 PSI	1.5PSI	1495.47PSI	1495.4PSI	5%	0.21PSI
1800 PSI	1.8PSI	1794.53PSI	1794.4PSI	7%	0.21PSI
2100 PSI	2.1PSI	2094.44PSI	2094.3PSI	7%	0.21PSI
2400 PSI	2.4PSI	2393.49PSI	2393.4PSI	4%	0.21PSI
2700 PSI	2.7PSI	2692.72PSI	2692.6PSI	4%	0.21PSI
3000 PSI	3PSI	2991.45PSI	2991.4PSI	2%	0.21PSI

End of calibration

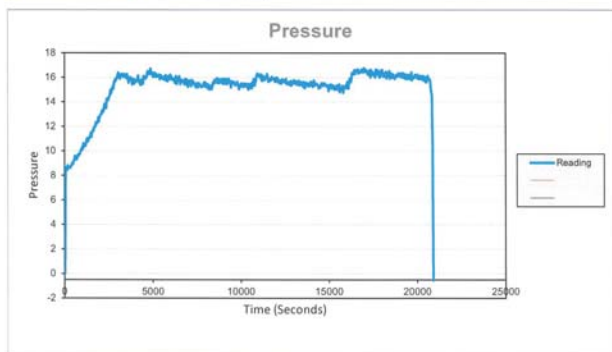
Quality isn't Expensive..... It's Priceless

	CR3 Thailand CO.,LD 15/1 M3. Bangkok-Mabkha Rd,Nikomattana Rayong 21180 THAILAND									
	<table><tr><td>Project</td><td>Supply Manpower</td></tr><tr><td>Test Medium</td><td>Water</td></tr><tr><td>Test Pressure</td><td>15 Bar</td></tr><tr><td>Test Location</td><td>Uniwise Rayong</td></tr><tr><td>Test Date</td><td>1-Feb-24</td></tr></table>	Project	Supply Manpower	Test Medium	Water	Test Pressure	15 Bar	Test Location	Uniwise Rayong	Test Date
Project	Supply Manpower									
Test Medium	Water									
Test Pressure	15 Bar									
Test Location	Uniwise Rayong									
Test Date	1-Feb-24									

Data Collection Report

Gauge Information	
Serial Number	960910
Model	3KPSIXP2I
Message Store	
Units	bar

Run Info	
Start Time	2/1/24 11:22:18 AM
Stop Time	2/1/24 5:10:48 PM
Logging Interval	30



Comment

Name	Job Title	Date
CR3T Representative	Rachanon Sutjarit	2-Feb-2024

CERTIFICATE OF CALIBRATION



Issued By Marske Machine Hire & Calibration Centre
Date of Issue 06 December 2023

Certificate Number
P232659

Page 1 of 2 Pages

Marske Machine (Thailand) Co.,Ltd
267/382-383 Sukhumvit Rd., MapTaPhut
Muangrayong, Rayong 21150
Tel : (038) 682992-3, (038) 691563-4 Fax : (038) 682988
Email : sales@mmc-thai.com

Approved Signatory

☐ Prakit K. ☒ Marut L.

Customer : CR3 (Thailand) Co., Ltd.
15/1 Moo 3 Bankoh-Mabkha, T. Mapkha Nikomattana Sub. Rayong
21180

Date Received : 02 December 2023

Instrument -	System ID : PC13068	Job Number : 0000235538
	Description : Digital Test Gauge	Ref. Number : CRAT-DG-003
	Manufacturer : Crystal	
	Model Number : 0 to 3000 PSI	
	Serial Number : 960910	Last Certificate Number : P223084
	Procedure Version : PP0001	Last Calibration Date : 30/11/2022

Environmental Conditions

Temperature : 23°C +/- 2°C Mains Voltage : 220V +/- 20V
Relative Humidity : 50% +/- 15% Mains Frequency : 50Hz +/- 1Hz

Comments

Instrument (UUC) was placed in lab and allowed to stabilize before calibration.
Reference level has been set at UUC's inlet and calibrated in vertical position.
Hydraulic oil with density 870 kg/m³ has been used as media for calibration.
All test pass manufacturer's specification.

Traceability Information

Instrument description	Serial number	Certificate number	Cal. Date	Cal. Period
CPS5800 Dead-Weight Tester (Lab)	770N	MP-0038-21	05/03/2021	156

Calibrated By : Woraphon Y.

Date of Calibration : 06 December 2023

This Certificate provides traceability of measurement to the SI System of unit, and to the units of measurement realised at the National Physical Laboratory or other recognised National Standard Laboratories.
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Quality Isn't Expensive..... It's Priceless

CERTIFICATE OF CALIBRATION



Certificate Number
P232659

Page 2 of 2 Pages

Test Title	Tolerance	STD Value	UUC Reading	% Of Spec.	Uncertainties
------------	-----------	-----------	-------------	------------	---------------

Calibration Information

The uncertainty limits quoted refer to the measured values only, with no account being taken of the instrument ability to maintain its calibration.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by a coverage factor $k=2$ corresponding to a coverage probability of approximately 95%.

Units :

The SI unit of pressure is the pascal.To convert from pascal to PSI multiply by 0.0001450377.

Calibration Method :

The instrument was calibrated in accordance with the instruction based on DKD R6-1.

Function : Pressure Measurement (Mean Value Including Hysteresis)
Range : 0 to 3000 PSI

0 PSI	0.60PSI	0.00PSI	0.0PSI	0%	0.21PSI
300 PSI	0.60PSI	299.21PSI	299.2PSI	2%	0.21PSI
600 PSI	0.60PSI	598.43PSI	598.4PSI	5%	0.21PSI
900 PSI	0.90PSI	897.51PSI	897.4PSI	12%	0.21PSI
1200 PSI	1.2PSI	1196.25PSI	1196.2PSI	4%	0.21PSI
1500 PSI	1.5PSI	1495.47PSI	1495.4PSI	5%	0.21PSI
1800 PSI	1.8PSI	1794.53PSI	1794.4PSI	7%	0.21PSI
2100 PSI	2.1PSI	2094.44PSI	2094.3PSI	7%	0.21PSI
2400 PSI	2.4PSI	2393.49PSI	2393.4PSI	4%	0.21PSI
2700 PSI	2.7PSI	2692.72PSI	2692.6PSI	4%	0.21PSI
3000 PSI	3PSI	2991.45PSI	2991.4PSI	2%	0.21PSI

End of calibration

Quality Isn't Expensive..... It's Priceless

SPM WEEKLY MAINTENANCE REPORT

DATE : 07-Jun-24				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.2.2.2	*Grease surface fluid swivel assembly	07-Jun-24	normal	
2.2.2.2	Lubricate Mooring & other auxillary equipment		normal	
2.2.3	Inspect buoy body/fender for any damaged		normal	
2.2.4	*Check Center well drain for contamination		normal	
	Check Central Pipe swivel (CPS) relief valve		normal	
2.2.5	*Open bearing cavity drain plug check water		normal	
	Check water barrage , gasket , means of Bearing protection		normal	
	Inspect buoy turntable for freely rotating , Normal condition		normal	
	Check Product path in Moon Pool / Turntable ,Exp.joint & Valves for any leakage		normal	
	* Inspect Floating hose strings , MBC , Connection , Messenger for any leakage / damaged		INSTALLED 31st JAN 2024	NEW-NORMAL
	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Suppoort buoy , Chafe chain , Messenger for any damaged , connection , fouling		new set installed 17 May 2024	
	Inspect Nav.aids, Solar panel , Wiring system & Winker Light		normal	

Rev: 220920

SPM WEEKLY MAINTENANCE REPORT

DATE : 14 June 2024				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.2.2.2	*Grease surface fluid swivel assembly	14-Jun-24	normal	
2.2.2.2	Lubricate Mooring & other auxillary equipment		normal	
2.2.3	Inspect buoy body/fender for any damaged		normal	
2.2.4	*Check Center well drain for contamination		normal	
	Check Central Pipe swivel (CPS) relief valve	9-May-24	normal	
2.2.5	*Open bearing cavity drain plug check water	14-Jun-24	normal	
	Check water barrage , gasket , means of Bearing protection		normal	
	Inspect buoy turntable for freely rotating , Normal condition		normal	
	Check Product path in Moon Pool / Turntable ,Exp.joint & Valves for any leakage		normal	
	* Inspect Floating hose strings , MBC , Connection , Messenger for any leakage / damaged		INSTALLED 31st JAN 2024	NEW-NORMAL
	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Suppoort buoy , Chafe chain , Messenger for any damaged , connection , fouling		new set installed 17 May 2024	
	Inspect Nav.aids, Solar panel , Wiring system & Winker Light		normal	

Rev: 220920

SPM WEEKLY MAINTENANCE REPORT

DATE : 21-Jun-24				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.2.2.2	*Grease surface fluid swivel assembly	21-Jun-24	normal	
2.2.2.2	Lubricate Mooring & other auxillary equipment		normal	
2.2.3	Inspect buoy body/fender for any damaged		normal	
2.2.4	*Check Center well drain for contamination		normal	
	Check Central Pipe swivel (CPS) relief valve		normal	
2.2.5	*Open bearing cavity drain plug check water		normal	
	Check water barrage , gasket , means of Bearing protection		normal	
	Inspect buoy turntable for freely rotating , Normal condition		normal	
	Check Product path in Moon Pool / Turntable ,Exp.joint & Valves for any leakage		normal	
	* Inspect Floating hose strings , MBC , Connection , Messenger for any leakage / damaged		INSTALLED 31st JAN 2024	NEW-NORMAL
	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Suppoort buoy , Chafe chain , Messenger for any damaged , connection , fouling		new set installed 17 May 2024	
	Inspect Nav.aids, Solar panel , Wiring system & Winker Light		normal	

SPM WEEKLY MAINTENANCE REPORT

DATE : 29-Jun-24				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.2.2.2	*Grease surface fluid swivel assembly	29-Jun-24	normal	Due to SPM Safety stand up on 28th
2.2.2.2	Lubricate Mooring & other auxillary equipment		normal	
2.2.3	Inspect buoy body/fender for any damaged		normal	
2.2.4	*Check Center well drain for contamination		normal	
	Check Central Pipe swivel (CPS) relief valve		normal	
2.2.5	*Open bearing cavity drain plug check water		normal	
	Check water barrage , gasket , means of Bearing protection		normal	
	Inspect buoy turntable for freely rotating , Normal condition		normal	
	Check Product path in Moon Pool / Turntable ,Exp.joint & Valves for any leakage		normal	
	* Inspect Floating hose strings , MBC , Connection , Messenger for any leakage / damaged		INSTALLED 31st JAN 2024	NEW-NORMAL
	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Suppoort buoy , Chafe chain , Messenger for any damaged , connection , fouling		new set installed 17 May 2024	
	Inspect Nav.aids, Solar panel , Wiring system & Winker Light		normal	

การตรวจสอบการรั่วไหล รูปทรงของท่อใต้ทะเล (Sub Sea Hose)



STAR PETROLEUM REFINING COMPANY AND PTT GLOBAL CHEMICAL

MAP TA PHUT SPM

Ocean Works Asia (Thailand) Co., Ltd.

Quarterly Inspection
Report
(SPM & PLEM)

1	20-May-2024	Initial Submission	KS	WK/SA	MAD
REV	DATE	DESCRIPTION	APRD	CHKD	PREP'D
Client Document No.			OWA Document No.		
N/A			54-66001-21-FIR-01		

OCEAN WORKS ASIA (OWA)
<https://www.owa.com.sg>

OCEAN WORKS ASIA (THAILAND) Co., Ltd.

54 B.B Building 9th Floor, Room No. 3909 Sukhumvit 21 (Asoke) Klongtoey Nua, Wattana,
Bangkok 10110 Thailand


MAP TA PHUT SPM	Page 2 of 14	
	20-May-24	
	Rev. 1	
Quarterly Inspection Report (SPM & PLEM)		

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	Rev. 1	
Quarterly Inspection Report (SPM & PLEM)		

Table 1. Document History

Revision	Date	Description of Change
1	20-May-2024	Initial submission for client review

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	20-May-24	
	Rev. 1	
Quarterly Inspection Report (SPM & PLEM)		

1.0 General

1.1 Introduction

Ocean Works Asia (Thailand) Co., Ltd. has been requested by Star Petroleum Refining Company (SPRC) for the provision of surface supplied air diving services, to support the ongoing inspection, repair and maintenance (IRM) activities on the SPM (Single Point Mooring) off Map Ta Phut Thailand.

As part of the quarterly IRM work scope for the SPM, inspections on the buoy and PLEM, were carried out from the 3rd to the 5th of May 2024. Inspections were carried out by air divers from the MV Uniwise Rayong, and was overseen by an attending Client's representative from Star Petroleum Refining Company (SPRC).

1.2 Executive Summary

The inspection on the SPM buoy and PLEM was carried out by divers and the following was noted;

- All seven (7) valves were inspected and noted to be in good condition. Valve cycling was not carried.
- No anomalies were noted on the East and West subsea hoses, all float beads were in place with no signs of slippage or damage.
- Distance measurement between the subsea hoses was taken and recorded.
- CP readings recorded on the PLEM and buoy were within limits.
- UT readings recorded on the PLEM and buoy were within limits.
- Valve cap re-tightening check was carried out and successful
- Chain angle measurements were taken successfully and found to be consistent.
- Chain wear measurements below the stopper, at the touch down point (TDP) and kenter shackle was carried out.
- No anomalies were noted on the Buoy and PLEM including sand slit.

2.0 Scope of Work

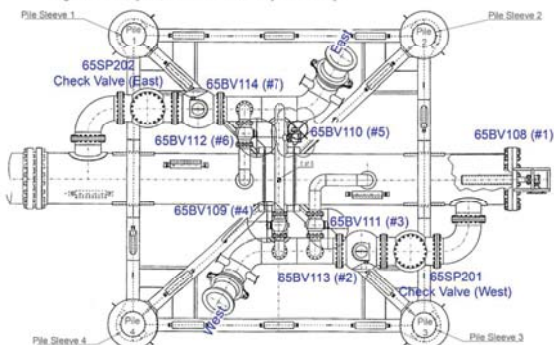
The scope of work comprises of the following:

- General Visual Inspection (GVI) of the 7 x steering valves on the PLEM. (No valve cycling carried out.)
- East and West subsea hoses inspection including flotation bead, hose configuration and subsea hose's flange connection and nipple area.
- Cathodic Potential (CP) reading on the PLEM and Buoy.
- Thickness Gauging (UT) on the PLEM and Buoy.
- General Visual Inspection (GVI) on the Buoy and PLEM including anodes, valves and sand silt
- Check the vertical center position of SPM over the PLEM
- Tightening of PLEM Check valve stem nuts
- Chain angle measurement and chain stopper General Visual Inspection (GVI)
- Chain wear down measurements at chain stopper area and at seabed touch down.
- Clear all fishing net on PLEM (if any)

3.0 General Visual Inspection (GVI) of the 7 x Steering Valves

The inspection of the seven (7) valves was carried and the following was noted:

- There was no signs of damage or distortion
- No signs of leaks
- Valves appeared to be in good condition
- Valve cycling was carried out successfully. Apart from valve #7 which was slightly tight to turn/cycle, all other valves cycled easily



Note: Valve Tag Numbers revised (as at 29th April 2022) to come in line with SPRC Tag Numbering system

The valves were inspected and cycled and left in the following state:

- | | |
|--|--------------|
| 1. Valve #1 (65BV108) 4 BALL VALVE #1 - | Fully Closed |
| 2. Valve #2 (65BV113) 24BALL VALVE #2 - | Fully Closed |
| 3. Valve #3 (65BV111) 10 BALL VALVE #3 - | Fully Closed |
| 4. Valve #4 (65BV109) 10 BALL VALVE #4 - | Fully Opened |
| 5. Valve #5 (65BV110) 4 VENT BALL VALVE #5 - | Fully Closed |
| 6. Valve #6 (65BV112) 10 BALL VALVE #6 - | Fully Closed |
| 7. Valve #7 (65BV114) 24' BALL VALVE #7 - | Fully Closed |

4.0 East and West Subsea Hose Inspection

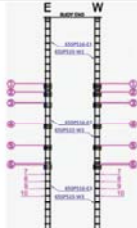
The inspection on the subsea hose(s) was carried out on both hoses from the SPM connection to the PLEM connection. The inspection consists of;

- Hose bead inspection
- Hose configuration measurements

4.1 Hose Bead Inspection

The 6 bead floats on each hose were inspected and depth readings were taken. Depth readings were taken at each bead and 4 other beads along each hose section. During the inspection the following was noted;

- All the securing bolts and nuts on the bead float were present.
- The bead floats were secure with no signs of slippage noted.
- There were no signs of damage

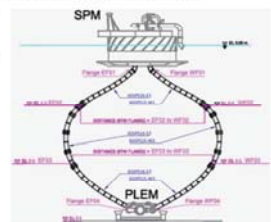
General Visual Inspection of the Subsea Hoses						
		East Hose			West Hose	
		Bead Float	Depth (ft)	Bead Condition	Depth (ft)	Bead Condition
01	33	<ul style="list-style-type: none">Covered in marine growthNo significant damage noted	32	<ul style="list-style-type: none">Covered in marine growthNo significant damage noted	32	
02	36		34		34	
03	39		37		37	
04	43		42		42	
05	49		46		46	
06	39		56		56	
07	64		61		61	
08	68		65		65	
09	73		70		70	
10	75		73		73	
Seabed	-	Time Start: 08:44hrs		Time End: 08:59hrs		
Note: All measurements to be taken TDC outside of Floatation Bed						

Note: All measurements to be taken TDC outside of Floatation Bead

4.2 Hose configuration measurements

Hose configuration measurements were taken and the following was noted:

- Distance between the upper flanges of EF02 to WF02 was 18.00m.
- Distance between the lower flanges of the EF03 to WF03 was 23.40m.



Visual Inspection

Date	3 rd May 2024	OWA Group	Thailand	Report No	54-66001-21-VI-06
Project No	54-66001	Dive/ROV Sys.	SSDS 2	Dive No	Refer to dive log
Client	Star Petroleum Refining and PTT Global Chemical			Vessel	Unwise Rayong
Project Name	PTTGC-SPRC SPM Diving Inspection and Maintenance				
Location	MAP TA PHUT SPM			Video Ref.	54-66001-21-VL-01

Type of Inspection	General (GVI)	✓	Close (CVI)		Detailed (DVI)	
--------------------	---------------	---	-------------	--	----------------	--

General Visual Inspection of the Subsea Hoses						
Bead Float	East Hose			West Hose		
	Depth (ft)	Bead Condition	Depth (ft)	Bead Condition		
01	33	<ul style="list-style-type: none">Covered in marine growthNo significant damage noted	32	<ul style="list-style-type: none">Covered in marine growthNo significant damage noted		
02	36		34			
03	39		37			
04	43		42			
05	49		46			
06	39		56			
07	64		61			
08	68		65			
09	73		70			
10	75		73			
Seabed	-	Time Start: 08:44hrs	Time End: 08:59hrs			
Note: All measurements to be taken TDC outside of Floatation Bead						
	Tag No.	Hose String Condition				
West	65SP15-W1	Covered with marine growth. No significant damage noted				
	65SP15-W2	Covered with marine growth. No significant damage noted				
	65SP15-W3	Covered with marine growth. No significant damage noted				
East	65SP16-E1	Covered with marine growth. No significant damage noted				
	65SP16-E2	Covered with marine growth. No significant damage noted				
	65SP16-E3	Covered with marine growth. No significant damage noted				

Hose Flange Condition			
Flange ID	Condition	Flange ID	Condition
EF01	• No signs of leaks	WF01	• No signs of leaks
EF02	• No damage noted	WF02	• No damage noted
EF03	• All bolts secure	WF03	• All bolts secure
EF04	• Marring growth 75%	WF04	• Marring growth 75%

Hose Configuration		
Distance EF02 to WF02	18.00m	
Distance EF03 to WF03	23.40m	

Comments:

Representative Signature:	OWA Data Recorder		OWA Supervisor
	Electronic form no signature required		Electronic form no signature required
Name (Print):	N/A		Akaminal

การตรวจสอบความแข็งแรงของทุ่นรับน้ำมัน (SPM)

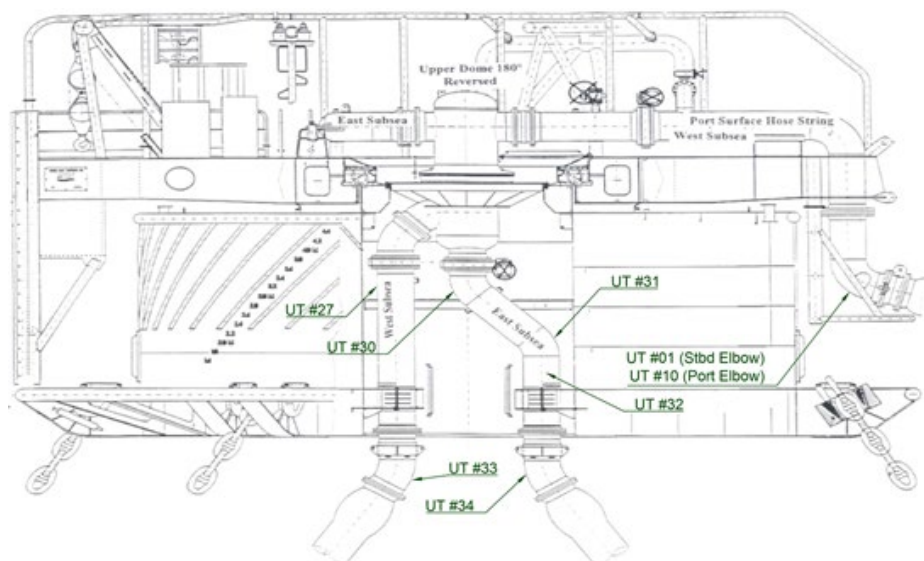
6.0 Ultrasonic Thickness Gauging (UTG)

Underwater Ultrasonic Thickness Gauging (UTG) was carried out at selected locations on the pipework of the buoy and PLEM.

This inspection is part of the 12 monthly requirement for the inspection and maintenance of the SPM system.

6.1 Ultrasonic Thickness Gauging (UTG) - Buoy

Thickness readings taken on the buoy pipework ranged between 9.10mm and 39.90mm. There were no signs of corrosion at the areas of inspection.



Buoy Spool Pieces					
Location	Reading (mm)	Location	Reading (mm)	Location	Reading (mm)
UTG#01	37.9	UTG#30	14.5	UTG#33	20.3
UTG#10	39.3	UTG#31	14.7	UTG#34	20.9
UTG#27	9.1	UTG#32	10.8		

6.2 Ultrasonic Thickness Gauging (UTG) - PLEM

Thickness readings taken on the PLEM pipework ranged between;

- 18.80mm and 19.30mm on the PLEM 48" main line
- 12.7mm and 20.0mm on the East 24" piping
- 12.7mm and 20.7mm on the West 24" piping

There were no signs of corrosion at the areas of inspection.

	48" Pipeline							
	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08
Min (mm)	19.0	18.8	19.0	19.0	19.1	19.1	19.1	19.2
Max (mm)	19.1	19.2	19.2	19.1	19.2	19.2	19.2	19.3

การตรวจสอบระบบ Cathodic Protection ของระบบท่อใต้ทะเล



Pipeline Survey by ROV Report

1	25-May-2023	Initial Submission		KS	CI	MAD
REV	DATE	DESCRIPTION		APRD	CHKD	PREP'D
Client Document No.			OWA Document No.			
N/A			53-66001-27-FIR-01			

54 B.B Building 9th Floor, Room No. 3909 Sukhumvit 21 (Asoke) Klongtoey Nua, Wattana,
Bangkok 10110 Thailand

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Printed 26 May 2023. Uncontrolled when printed

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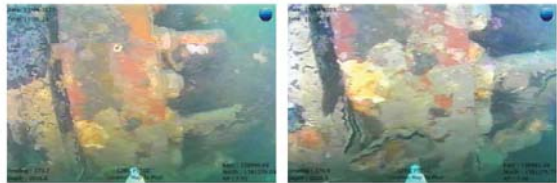
- General Visual Inspection of the starting point of the pipeline from the SPM PLEM section including the 48" flange mating;
- General Visual Inspection of the pipeline from the SPM to as close to shore as reasonably allowed consisting of:
 - Visual inspection of the concrete weight coating, field joints, marine growth and sediment level;
 - Visual signs of any debris fouling damage, corrosion or deterioration of the pipeline;
- Visual inspection of anodes for depletion and damage;

- Cathodic Potential readings on visible anodes along the pipeline as required, utilizing a contact CP probe;

3.0 PLEM Flange General Visual Inspection

A General Visual Inspection was carried out on the PLEM to Pipeline Flange connection. During the inspection the following was noted:

- There was no signs of product leak and the flange appeared to be secure.
- All the bolts appeared to be secure with no damage or distortion.
- Flange gap appeared to be even all the way round.
- There were no signs of damage to the flange.
- Cathodic potential readings were taken at the flange connection between the PLEM and the pipeline. Readings recorded ranged between (-)969mV and (-)953mV.
- There was no debris on the flange.
- There was approximately 75% overall marine growth coverage on the flange.



PLEM to Pipeline Flange

PLEM to Pipeline Flange

4.0 Pipeline Inspection

The ROV inspection of the 48" Subsea Crude Import Pipeline was carried out from the PLEM to pipeline flange to where the pipeline went into full burial at KP15.999 outside the South sea wall of the BLCP Power Station.

4.1 General Visual Inspection (GVI)

The pipeline was generally straight heading in a Northly direction. There were no sharp bends or any deviation of the pipeline from the as-laid route. Although there were numerous amounts of debris throughout the extent of the survey, there was no damage noted on the pipeline.

There were scattered sections of soft marine growth mainly along the sides of the pipeline with no marine growth on the crown of the pipeline. A layer of silt was over the pipeline which could obscure any damage however no significant damage was noted.

The field joints on the pipeline appeared to have degraded bitumastic wrap/coating. This was noted as cracking or general degrading predominantly at the crown of the field joint. There was however no bare metal noted at the field joints.



Typical Field Joint Condition - KP8.718

Typical Field Joint Condition - KP0.561

4.2 Anode Condition Survey

A total of 71 anodes were found and inspected. Anodes appeared to be in good condition and secure to the pipeline. Depletion of the anodes was noted to be approximately 25-50%. Oxide deposits on the anode would suggest that the anodes were active.



Typical Pipeline Anode - KP0.364

Typical Pipeline Anode - KP2.269

Map Ta Phut 48" Subsea Crude Import Pipeline Report

4.0 Summary of Targets

Table of Anodes

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.365	AND01	Anode Assessment - 25-50% Wasted	738902.06	1381621.99	15/04/2023	14:09:06	No Additional Comment
2.140	AND02	Anode Assessment - 25-50% Wasted	738447.84	1383338.28	17/04/2023	15:56:33	No Additional Comment
2.268	AND03	Anode Assessment - 25-50% Wasted	738417.07	1383462.51	18/04/2023	08:34:20	No Additional Comment
2.521	AND04	Anode Assessment - 25-50% Wasted	738351.11	1383706.42	18/04/2023	09:35:47	No Additional Comment
2.640	AND05	Anode Assessment - 25-50% Wasted	738318.78	1383829.88	18/04/2023	09:46:05	No Additional Comment
2.775	AND06	Anode Assessment - 25-50% Wasted	738286.68	1383951.81	18/04/2023	10:35:16	No Additional Comment
2.903	AND07	Anode Assessment - 25-50% Wasted	738254.88	1384075.99	18/04/2023	10:44:12	No Additional Comment
3.030	AND08	Anode Assessment - 25-50% Wasted	738222.19	1384198.63	18/04/2023	10:52:39	No Additional Comment
3.157	AND09	Anode Assessment - 25-50% Wasted	738188.87	1384321.45	18/04/2023	11:06:11	No Additional Comment
3.282	AND10	Anode Assessment - 25-50% Wasted	738156.95	1384442.45	18/04/2023	11:15:19	CP1-987mV
3.410	AND11	Anode Assessment - 25-50% Wasted	738124.28	1384565.93	18/04/2023	11:39:39	No Additional Comment
3.533	AND12	Anode Assessment - 25-50% Wasted	738093.60	1384685.15	18/04/2023	11:50:18	No Additional Comment
3.660	AND13	Anode Assessment - 25-50% Wasted	738062.31	1384808.42	18/04/2023	11:58:33	No Additional Comment
3.785	AND14	Anode Assessment - 25-50% Wasted	738031.28	1384929.58	18/04/2023	13:34:31	No Additional Comment
3.913	AND15	Anode Assessment - 25-50% Wasted	737998.22	1385053.17	18/04/2023	13:42:56	No Additional Comment
4.039	AND16	Anode Assessment - 25-50% Wasted	737965.15	1385174.72	18/04/2023	13:52:48	No Additional Comment
4.166	AND17	Anode Assessment - 25-50% Wasted	737935.39	1385298.04	18/04/2023	14:03:36	No Additional Comment
4.293	AND18	Anode Assessment - 25-50% Wasted	737902.43	1385420.17	18/04/2023	14:19:40	No Additional Comment
4.420	AND19	Anode Assessment - 25-50% Wasted	737870.38	1385543.42	18/04/2023	14:26:09	No Additional Comment
4.545	AND20	Anode Assessment - 25-50% Wasted	737837.66	1385664.01	18/04/2023	14:57:01	No Additional Comment
4.669	AND21	Anode Assessment - 25-50% Wasted	737805.71	1385783.47	18/04/2023	15:06:21	No Additional Comment
4.793	AND22	Anode Assessment - 25-50% Wasted	737774.58	1385903.56	18/04/2023	15:15:44	No Additional Comment
5.287	AND23	Anode Assessment - 25-50% Wasted	737649.33	1386381.95	19/04/2023	08:14:54	No Additional Comment
5.413	AND24	Anode Assessment - 25-50% Wasted	737615.31	1386503.31	19/04/2023	08:42:16	Enter Event Comment
5.534	AND25	Anode Assessment - 25-50% Wasted	737585.87	1386620.49	19/04/2023	08:55:18	No Additional Comment
5.781	AND26	Anode Assessment - 25-50% Wasted	737552.81	1386859.55	19/04/2023	09:22:02	No Additional Comment
6.033	AND27	Anode Assessment - 25-50% Wasted	737459.40	1387103.81	19/04/2023	09:35:22	No Additional Comment
6.152	AND28	Anode Assessment - 25-50% Wasted	737428.92	1387218.66	19/04/2023	09:42:38	No Additional Comment
6.276	AND29	Anode Assessment - 25-50% Wasted	737397.72	1387338.37	19/04/2023	09:52:57	No Additional Comment
6.400	AND30	Anode Assessment - 25-50% Wasted	737365.75	1387458.06	19/04/2023	10:05:11	No Additional Comment
6.645	AND31	Anode Assessment - 25-50% Wasted	737303.78	1387895.33	19/04/2023	10:29:52	No Additional Comment
6.769	AND32	Anode Assessment - 25-50% Wasted	737272.66	1387814.90	19/04/2023	10:36:10	No Additional Comment
6.893	AND33	Anode Assessment - 25-50% Wasted	737240.98	1387934.66	19/04/2023	11:01:45	No Additional Comment
7.016	AND34	Anode Assessment - 25-50% Wasted	737208.13	1388053.48	19/04/2023	11:09:50	No Additional Comment
7.140	AND35	Anode Assessment - 25-50% Wasted	737176.51	1388173.06	19/04/2023	11:17:06	No Additional Comment
7.264	AND36	Anode Assessment - 25-50% Wasted	737144.80	1388293.53	19/04/2023	13:16:03	No Additional Comment
7.387	AND37	Anode Assessment - 25-50% Wasted	737113.57	1388412.81	19/04/2023	13:22:04	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

Table of Cathodic Protection – CP Steel

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.008	CP - Steel	Cathodic Protection - CP Steel	738990.42	1381275.57	13/04/2023	12:54:29	PLEM side of flange connection CP1-986mV
0.002	CP - Steel	Cathodic Protection - CP Steel	738990.96	1381276.74	13/04/2023	12:56:08	Pipeline side of flange connection CP1-986mV

Table of Field Joints

KP	Abbreviation	Description	East	North	Date	Time	Comments
0.112	FJ-GC	Field Joint - Good Condition	738968.13	1381377.95	13/04/2023	15:00:02	No Additional Comment
0.296	FJ-BM01	Field Joint - Bitumen Missing	738919.10	1381555.12	15/04/2023	13:52:43	No Additional Comment
0.309	FJ-BM02	Field Joint - Bitumen Missing	738916.16	1381567.60	15/04/2023	13:56:17	No Additional Comment
0.321	FJ-BM03	Field Joint - Bitumen Missing	738913.08	1381578.82	15/04/2023	13:57:44	No Additional Comment
0.334	FJ-BM04	Field Joint - Bitumen Missing	738909.59	1381591.36	15/04/2023	13:59:12	No Additional Comment
0.340	FJ-BM05	Field Joint - Bitumen Missing	738906.77	1381603.72	15/04/2023	14:03:11	No Additional Comment
0.422	FJ-BM06	Field Joint - Bitumen Missing	738896.96	1381676.66	15/04/2023	14:15:01	No Additional Comment
0.498	FJ-BM07	Field Joint - Bitumen Missing	738868.32	1381750.32	15/04/2023	15:23:54	No Additional Comment
0.523	FJ-BM08	Field Joint - Bitumen Missing	738861.71	1381774.96	15/04/2023	15:26:52	No Additional Comment
0.536	FJ-BM09	Field Joint - Bitumen Missing	738858.40	1381787.68	15/04/2023	15:28:06	No Additional Comment
0.549	FJ-BM10	Field Joint - Bitumen Missing	738855.56	1381799.66	15/04/2023	15:29:31	No Additional Comment
0.561	FJ-BM11	Field Joint - Bitumen Missing	738852.48	1381811.99	15/04/2023	15:31:35	No Additional Comment
0.574	FJ-BM12	Field Joint - Bitumen Missing	738848.71	1381824.34	15/04/2023	15:33:18	No Additional Comment
0.600	FJ-BM13	Field Joint - Bitumen Missing	738842.86	1381849.37	15/04/2023	15:37:48	No Additional Comment
0.613	FJ-BM14	Field Joint - Bitumen Missing	738839.53	1381861.59	15/04/2023	15:39:06	No Additional Comment
0.618	FJ-BM15	Field Joint - Bitumen Missing	738838.94	1381867.40	15/04/2023	15:41:41	No Additional Comment
0.625	FJ-BM16	Field Joint - Bitumen Missing	738836.75	1381873.99	15/04/2023	15:42:40	No Additional Comment
0.638	FJ-BM17	Field Joint - Bitumen Missing	738833.08	1381886.03	15/04/2023	15:44:08	No Additional Comment
0.652	FJ-BM18	Field Joint - Bitumen Missing	738827.49	1381899.08	17/04/2023	10:17:11	No Additional Comment
0.690	FJ-BM19	Field Joint - Bitumen Missing	738818.26	1381935.50	17/04/2023	10:22:43	No Additional Comment
0.728	FJ-BM20	Field Joint - Bitumen Missing	738808.49	1381972.89	17/04/2023	10:27:40	No Additional Comment
0.766	FJ-BM21	Field Joint - Bitumen Missing	738798.53	1382009.44	17/04/2023	10:30:30	No Additional Comment
0.779	FJ-BM22	Field Joint - Bitumen Missing	738795.63	1382021.79	17/04/2023	10:31:44	No Additional Comment
0.817	FJ-BM23	Field Joint - Bitumen Missing	738785.84	1382058.72	17/04/2023	10:35:05	No Additional Comment
0.830	FJ-BM24	Field Joint - Bitumen Missing	738782.22	1382071.18	17/04/2023	10:36:29	No Additional Comment
0.842	FJ-BM25	Field Joint - Bitumen Missing	738779.00	1382083.26	17/04/2023	10:38:11	No Additional Comment
0.856	FJ-BM26	Field Joint - Bitumen Missing	738776.06	1382096.06	17/04/2023	10:39:42	No Additional Comment
0.869	FJ-BM27	Field Joint - Bitumen Missing	738772.15	1382108.40	17/04/2023	10:58:41	No Additional Comment
0.881	FJ-BM28	Field Joint - Bitumen Missing	738768.15	1382120.40	17/04/2023	11:00:08	No Additional Comment
0.893	FJ-BM29	Field Joint - Bitumen Missing	738766.19	1382132.00	17/04/2023	11:15:10	No Additional Comment
0.906	FJ-BM30	Field Joint - Bitumen Missing	738762.43	1382144.44	17/04/2023	11:16:11	No Additional Comment
0.919	FJ-BM31	Field Joint - Bitumen Missing	738759.25	1382157.26	17/04/2023	11:17:13	No Additional Comment



Map Ta Phut 48" Subsea Crude Import Pipeline Report

KP	Abbreviation	Description	East	North	Date	Time	Comments
7.511	AND38	Anode Assessment - 25-50% Wasted	737082.04	1388532.56	19/04/2023	13:28:52	No Additional Comment
7.636	AND39	Anode Assessment - 25-50% Wasted	737050.48	1388653.30	19/04/2023	13:36:32	No Additional Comment
7.759	AND40	Anode Assessment - 25-50% Wasted	737018.47	1388771.94	19/04/2023	13:44:36	No Additional Comment
7.882	AND41	Anode Assessment - 25-50% Wasted	736986.10	1388891.46	19/04/2023	14:10:26	No Additional Comment
8.008	AND42	Anode Assessment - 25-50% Wasted	736956.01	1389012.60	19/04/2023	14:17:42	No Additional Comment
8.132	AND43	Anode Assessment - 25-50% Wasted	736924.87	1389132.76	19/04/2023	14:41:01	No Additional Comment
8.258	AND44	Anode Assessment - 25-50% Wasted	736891.59	1389254.21	19/04/2023	14:50:15	No Additional Comment
8.380	AND45	Anode Assessment - 25-50% Wasted	736860.54	1389372.24	19/04/2023	15:05:02	No Additional Comment
8.627	AND46	Anode Assessment - 25-50% Wasted	736796.74	1389611.22	19/04/2023	15:25:12	No Additional Comment
8.749	AND47	Anode Assessment - 25-50% Wasted	736766.53	1389729.42	19/04/2023	15:35:16	No Additional Comment
8.871	AND48	Anode Assessment - 25-50% Wasted	736734.76	1389847.59	19/04/2023	16:08:55	No Additional Comment
8.995	AND49	Anode Assessment - 25-50% Wasted	736702.14	1389966.22	19/04/2023	16:15:45	No Additional Comment
9.121	AND50	Anode Assessment - 25-50% Wasted	736671.87	1390088.80	22/04/2023	09:17:32	No Additional Comment
9.244	AND51	Anode Assessment - 25-50% Wasted	736641.03	1390208.43	22/04/2023	09:26:37	No Additional Comment
9.369	AND52	Anode Assessment - 25-50% Wasted	736609.46	1390328.87	22/04/2023	09:35:41	No Additional Comment
9.491	AND53	Anode Assessment - 25-50% Wasted	736578.16	1390447.16	22/04/2023	09:43:17	No Additional Comment
9.863	AND54	Anode Assessment - 25-50% Wasted	736483.33	1390806.77	22/04/2023	10:03:13	No Additional Comment
9.987	AND55	Anode Assessment - 25-50% Wasted	736451.84	1390926.37	22/04/2023	10:09:28	No Additional Comment
10.111	AND56	Anode Assessment - 25-50% Wasted	736420.27	1391047.10	22/04/2023	10:16:16	No Additional Comment
10.236	AND57	Anode Assessment - 25-50% Wasted	736387.86	1391167.83	22/04/2023	10:23:49	No Additional Comment
10.360	AND58	Anode Assessment - 25-50% Wasted	736356.85	1391287.55	22/04/2023	10:33:43	No Additional Comment
10.484	AND59	Anode Assessment - 25-50% Wasted	736325.44	1391407.20	22/04/2023	10:39:45	No Additional Comment
10.607	AND60	Anode Assessment - 25-50% Wasted	736293.94	1391526.10	22/04/2023	10:46:51	No Additional Comment
10.733	AND61	Anode Assessment - 25-50% Wasted	736261.94	1391647.76	22/04/2023	10:53:48	No Additional Comment
10.857	AND62	Anode Assessment - 25-50% Wasted	736230.49	1391768.59	22/04/2023	11:00:26	No Additional Comment
10.981	AND63	Anode Assessment - 25-50% Wasted	736198.93	1391887.84	22/04/2023	11:09:09	No Additional Comment
11.105	AND64	Anode Assessment - 25-50% Wasted	736167.36	1392008.10	22/04/2023	11:15:06	No Additional Comment
11.229	AND65	Anode Assessment - 25-50% Wasted	736135.68	1392128.28	22/04/2023	11:21:22	No Additional Comment
11.352	AND66	Anode Assessment - 25-50% Wasted	736104.72	1392246.55	22/04/2023	12:24:24	No Additional Comment
11.474	AND67	Anode Assessment - 25-50% Wasted	736073.80	1392364.38	22/04/2023	12:49:35	No Additional Comment
11.598	AND68	Anode Assessment - 25-50% Wasted	736041.35	1392484.68	22/04/2023	13:00:39	No Additional Comment
11.722	AND69	Anode Assessment - 25-50% Wasted	736009.75	1392604.15	22/04/2023	13:08:25	No Additional Comment
11.844	AND70	Anode Assessment - 25-50% Wasted	735978.76	1392722.87	22/04/2023	13:15:56	No Additional Comment
12.092	AND71	Anode Assessment - 25-50% Wasted	735916.41	1392862.76	22/04/2023	13:31:37	No Additional Comment



การตรวจสอบ Anode บริเวณใต้ท่อนรับน้ำมัน



Photo Log



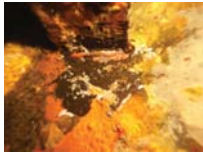
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02 Buoy Anode AN21 (9)



02 Buoy Anode AN21 (10)



02 Buoy Anode AN21 (11)



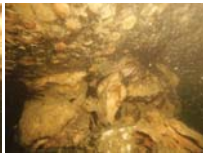
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02 Buoy Anode AN21 (13)



02 Buoy Anode AN21 (14)



02 Buoy Anode AN21 (15)



02 Buoy Anode AN21 (16)



02 Buoy Anode AN21 (17)



02 Buoy Anode AN21 (18)



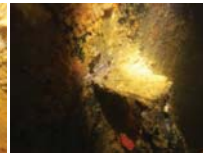
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Photo Log



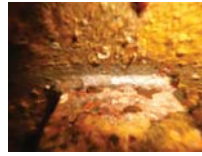
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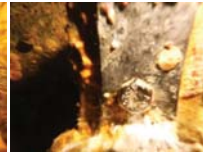
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02 Buoy Anode AN22 (1)



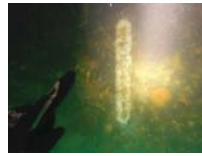
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02 Buoy Anode AN22 (3)



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02 Buoy Anode AN22 (5)



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02 Buoy Anode AN22 (7)



02 Buoy Anode AN22 (8)



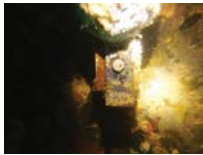
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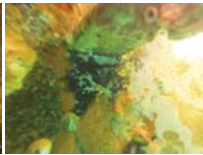
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Photo Log



02 Buoy Anode AN22 (11)



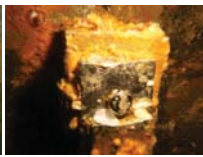
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02 Buoy Anode AN22 (13)



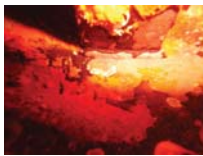
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02 Buoy Anode AN23 (2)



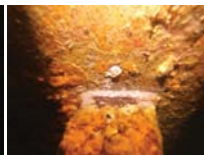
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02 Buoy Anode AN23 (4)



02 Buoy Anode AN23 (5)



02 Buoy Anode AN23 (6)



02 Buoy Anode AN23 (7)



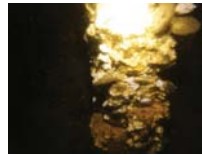
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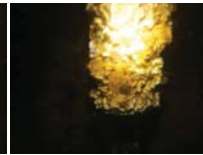
02 Buoy Anode AN23 (9)



Photo Log



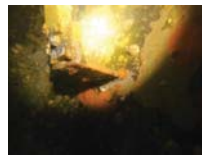
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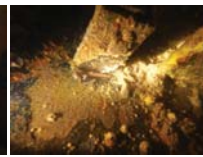
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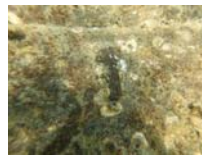
02 Buoy Anode AN23 (13)



02 Buoy Anode AN23 (14)



02 Buoy Anode AN23 (15)



03 Chain Stopper 1 (1)



03 Chain Stopper 1 (2)



03 Chain Stopper 1 (3)



03 Chain Stopper 1 (4)



03 Chain Stopper 1 (5)



03 Chain Stopper 1 (6)



Photo Log



03 Chain Stopper 1 (7)

03 Chain Stopper 1 (8)

03 Chain Stopper 1 (9)



03 Chain Stopper 2 (1)

03 Chain Stopper 2 (2)

03 Chain Stopper 2 (3)



03 Chain Stopper 2 (4)

03 Chain Stopper 2 (5)

03 Chain Stopper 2 (6)



03 Chain Stopper 2 (7)

03 Chain Stopper 2 (8)

03 Chain Stopper 2 (9)



Photo Log



03 Chain Stopper 2 (10)

03 Chain Stopper 3 (1)

03 Chain Stopper 3 (2)



03 Chain Stopper 3 (3)

03 Chain Stopper 3 (4)

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03 Chain Stopper 3 (6)

03 Chain Stopper 3 (7)

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03 Chain Stopper 3 (9)

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03 Chain Stopper 3 (11)



Photo Log



03 Chain Stopper 3 (12)

03 Chain Stopper 3 (13)

03 Chain Stopper 4 (1)



03 Chain Stopper 4 (2)

03 Chain Stopper 4 (3)

03 Chain Stopper 4 (4)



03 Chain Stopper 4 (5)

03 Chain Stopper 4 (6)

03 Chain Stopper 4 (7)



03 Chain Stopper 4 (8)

03 Chain Stopper 5 (1)

03 Chain Stopper 5 (2)



Photo Log



03 Chain Stopper 5 (3)

03 Chain Stopper 5 (4)

03 Chain Stopper 5 (5)



03 Chain Stopper 5 (6)

03 Chain Stopper 6 (1)

03 Chain Stopper 6 (2)



03 Chain Stopper 6 (3)

03 Chain Stopper 6 (4)

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03 Chain Stopper 6 (6)

03 Chain Stopper 6 (7)

03 Chain Stopper 6 (8)



Photo Log



03 Chain Stopper 6 (9)

03 Chain Stopper 6 (10)

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03 Chain Stopper 6 (12)

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03 Chain Stopper 6 (15)

03 Chain Stopper 6 (16)

03 Chain Stopper 6 (17)



03 Chain Stopper 6 (18)

03 Chain Stopper 6 (19)

03 Chain Stopper 6 (20)



Photo Log



03 Chain Stopper 6 (21)

03 Chain Stopper 6 (22)

03 Chain Stopper 6 (23)



03 Chain Stopper 6 (24)

03 Chain Stopper 6 (25)

03 Chain Stopper 6 (26)



03 Chain Stopper 6 (27)

03 Chain Stopper 6 (28)

03 Chain Stopper 6 (29)



03 Chain Stopper 6 (30)

03 Chain Stopper 6 (31)

03 Chain Stopper 6 (32)

Representative	OWA Data Recorder		OWA Supervisor
Signature:	Electronic form no signature required		Electronic form no signature required
Name (Print):	N/A		Akaminal

SPM MONTHLY MAINTENANCE REPORT

For the month of : APRIL 2024				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.3.2	Check mooring equipment / ancillary :	REMOVED FROM SYSYTEM 13 MARCH 2023		
2.3.2	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Supportt buoy , Chafe chain , Messenger for any damaged , connection , fouling			
2.3.2.2	Chafe chain Measurement for ware down			
2.3.3	Check Tanker rail Hose / Butterfly vlv	25th	Normal	INSTALLED 31st JAN 2024
	Hose lifting arrangement ,	Stand by for SPM back in commission		
	Triangle Plate Measurement	Stand by for SPM back in commission		
2.3.4	Check / Operated / Lubricate of all buoy valve	25th	normal	
2.3.5	Check all electric system and wiring system	25th	normal	
2.3.5.2	Check Solar Panel / system , Clean Solar panel , if required	25th	normal	
2.3.5.1	Check Battery / electrolyte level : charging or change if required , Battery box and seals	25th	normal	
	SCUBA diving inspection to SPM, Anodes/clean :	WAITING TO REPLACE BAD ANODES		
2.3.6	- Visual inspection to SPM , MBC	25th	Normal	INSTALLED 31st JAN 2024
	- Visual inspection to 1st off , 2nd off buoy for any potential deformation / kinkage	25th	Normal	INSTALLED 31st JAN 2024
	- Visual inspection to tanker rail hose , butterfly Vv , Lifting equipment & accessories .	25th	Normal	INSTALLED 31st JAN 2024
2.3.7	Check bearing protection system and check water	25th	Normal	
2.3.8	*Open/Check water @bearing inspection plate	25th	Normal	
2.3.9	Inspect fluid swivel assembly ,leakge point	25th	Normal	
2.3.10	Sounding buoy compartments	25th	Normal	

REV : 22/0620

Maintenance Supervisor

Marine Manager

SPM MONTHLY MAINTENANCE REPORT

For the month of : MAY 2024				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.3.2	Check mooring equipment / ancillary :	NEW SYSYTEM INSTALLED 17 MAY 2024		
2.3.2	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Supportt buoy , Chafe chain , Messenger for any damaged , connection , fouling			
2.3.2.2	Chafe chain Measurement for ware down			
2.3.3	Check Tanker rail Hose / Butterfly vlv	8th	normal	Measured in WH before installation
	Hose lifting arrangement ,	17th	Normal	INSTALLED 31st JAN 2024
	Triangle Plate Measurement	Installed on both hose end		
2.3.4	Check / Operated / Lubricate of all buoy valve	10th	normal	
2.3.5	Check all electric system and wiring system	10th	normal	
2.3.5.2	Check Solar Panel / system , Clean Solar panel , if required	10th	normal	
2.3.5.1	Check Battery / electrolyte level : charging or change if required , Battery box and seals	10th	normal	
	SCUBA diving inspection to SPM, Anodes/clean :	10th	normal	
2.3.6	- Visual inspection to SPM , MBC	10th	Normal	INSTALLED 31st JAN 2024
	- Visual inspection to 1st off , 2nd off buoy for any potential deformation / kinkage	10th	Normal	INSTALLED 31st JAN 2024
	- Visual inspection to tanker rail hose , butterfly Vv , Lifting equipment & accessories .	10th	Normal	INSTALLED 31st JAN 2024
2.3.7	Check bearing protection system and check water	10th	Normal	
2.3.8	*Open/Check water @bearing inspection plate	10th	Normal	
2.3.9	Inspect fluid swivel assembly ,leakge point	10th	Normal	
2.3.10	Sounding buoy compartments	10th	Normal	

REV : 22/0620

Maintenance Supervisor

Marine Manager

SPM MONTHLY MAINTENANCE REPORT

For the month of : JUNE 2024				
REF	DESCRIPTIONS	Date	RESULTS	REMARKS
2.3.2	Check mooring equipment / ancillary :	NEW SYSYTEM INSTALLED 17 MAY 2024		
2.3.2	* Inspect Mooring Equipment / accessories , Hawsers/ thimble / Jacket , Chain Supportt buoy , Chafe chain , Messenger for any damaged , connection , fouling			
2.3.2.2	Chafe chain Measurement for ware down			
2.3.3	Check Tanker rail Hose / Butterfly vlv	15th	normal	Measured on UR back deck
	Hose lifting arrangement ,	15th	Normal	INSTALLED 31st JAN 2024
	Triangle Plate Measurement	Reinstalled		
	Triangle Plate Measurement	Stand by for SPM back in commission		
2.3.4	Check / Operated / Lubricate of all buoy valve	14th	normal	
2.3.5	Check all electric system and wiring system	14th	normal	
2.3.5.2	Check Solar Panel / system , Clean Solar panel , if required	14th	normal	
2.3.5.1	Check Battery / electrolyte level : charging or change if required , Battery box and seals	14th	normal	
	SCUBA diving inspection to SPM, Anodes/clean :	14th	normal	
2.3.6	- Visual inspection to SPM , MBC	14th	Normal	INSTALLED 31st JAN 2024
	- Visual inspection to 1st off , 2nd off buoy for any potential deformation / kinkage	14th	Normal	INSTALLED 31st JAN 2024
	- Visual inspection to tanker rail hose , butterfly Vv , Lifting equipment & accessories .	14th	Normal	INSTALLED 31st JAN 2024
2.3.7	Check bearing protection system and check water	14th	Normal	
2.3.8	*Open/Check water @bearing inspection plate	14th	Normal	
2.3.9	Inspect fluid swivel assembly ,leakge point	14th	Normal	
2.3.10	Sounding buoy compartments	14th	Normal	

REV : 22/0620

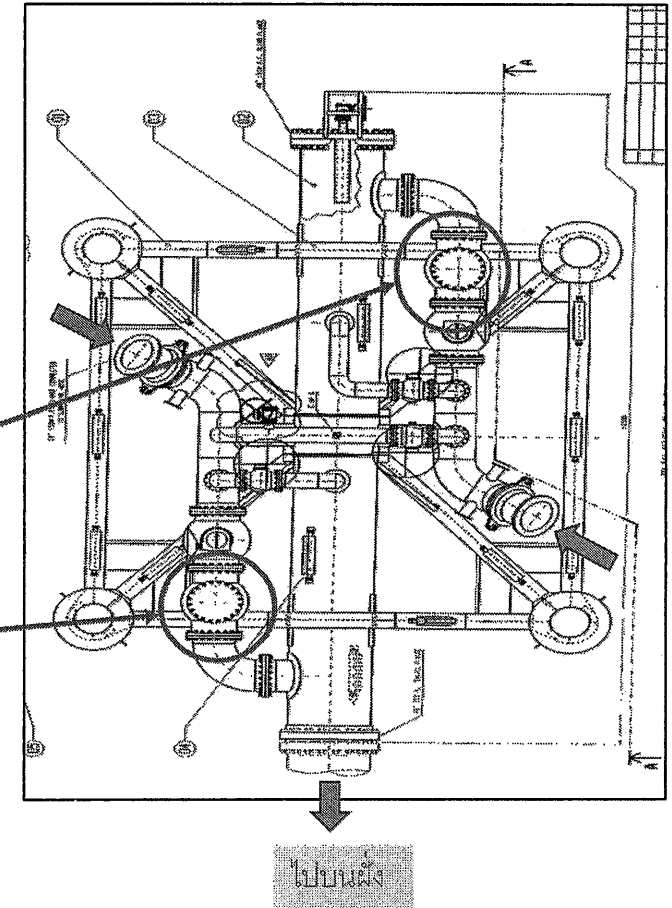
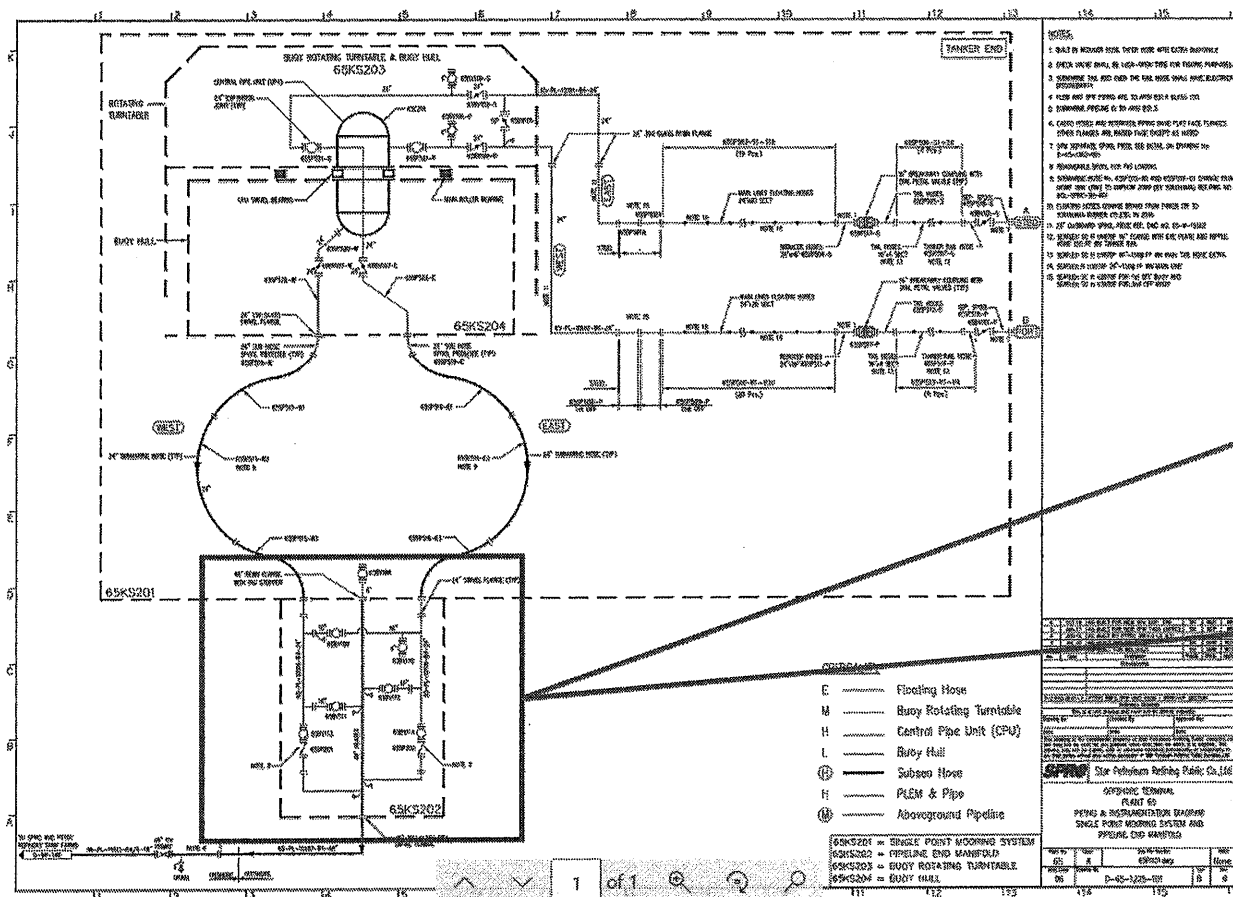
Maintenance Supervisor

Marine Manager

ภาคผนวก ข.19

การติดตั้ง Check Valve ที่ปลายท่อขนถ่าย

การติดตั้งวาล์วน้ำมันย้อนกลับทั้งหมด (check valve) เพื่อป้องกันน้ำมันไหลย้อนกลับ



ภาคผนวก ข.20

การแต่งตั้งคณะกรรมการความปลอดภัย อาชีวอนามัย
และสภาพแวดล้อมในการทำงาน

ประกาศ

วันที่ 31 มีนาคม 2566

จาก : ประธานเจ้าหน้าที่บริหาร

ถึง : พนักงานทุกท่าน

เรื่อง : การแต่งตั้งคณะกรรมการความปลอดภัย อาชีวอนามัยและสภาพแวดล้อมในการทำงาน (ฉบับปรับปรุงครั้งที่ 1)

เพื่อให้การดำเนินงานด้านความปลอดภัย อาชีวอนามัยและสิ่งแวดล้อมเป็นไปอย่างมีประสิทธิภาพและต่อเนื่อง จึงได้มีการปรับปรุงรายชื่อสมาชิกคณะกรรมการความปลอดภัย อาชีวอนามัยและสภาพแวดล้อมในการทำงานในส่วนของผู้แทนนายจ้าง (ประธาน) ซึ่งสอดคล้องกับการเปลี่ยนแปลงผังองค์กรของบริษัทฯ ดังนั้น จึงขอประกาศแต่งตั้งคณะกรรมการความปลอดภัยฯ (ฉบับปรับปรุงครั้งที่ 1) ซึ่งประกอบด้วยกรรมการที่มาจากแต่งตั้ง (ผู้แทนนายจ้าง) และกรรมการที่มาจากคัดเลือกตั้ง (ผู้แทนลูกจ้าง) ดังรายชื่อต่อไปนี้

กรรมการผู้แทนนายจ้าง

1. นายณรงค์	โตะโยชิ	GR	ประธานกรรมการ
2. นายพงษ์กรณ์	ซังซวงศักดิ์	GE	
3. นายพอล	แอนดรูว์ รัสเวลล์	PN	
4. นางสาวเขาวศวี	เนลลิ่งรัตนาก	PD	
5. นายวิศิษฐ์	สุชประเสริฐ	AS	
6. นายวัฒน์ศิลป์	ราชาเดช	AS/6	

กรรมการผู้แทนลูกจ้าง

1. นายปิ่นพงศ์	หัตถกิจอุดม	PN/53	
2. นายพิทักษ์พันธุ์	อังคะวีน	PN/34	
3. นายสถาปนา	ศิริจันทร์	PD/31	
4. นายสงกรานต์	ยัตโร	AS/243	
5. นางสาวภา	ธรรมสุวัณ	HR/12	
6. นางสาววิษณุภรณ์	วิษณุภรณ์	TE/26	

กรรมการและเลขานุการ

1. นายวราวุธ	พรหมโน	QS/41	
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(เจ้าหน้าที่ความปลอดภัยในการทำงานระดับวิชาชีพ)

โดยให้คณะกรรมการความปลอดภัย อาชีวอนามัยและสภาพแวดล้อมในการทำงานมีหน้าที่ดังต่อไปนี้

- จัดทำนโยบายด้านความปลอดภัย อาชีวอนามัยและสภาพแวดล้อมในการทำงานของสถานประกอบการกิจการเสนอต่อนายจ้าง
- จัดทำแนวทางการป้องกันและลดการเกิดอุบัติเหตุ การประสบอันตราย การเจ็บป่วยหรือการ เกิดเหตุเดือดร้อนรำคาญอันเนื่องมาจากการทำงานของลูกจ้างหรือความไม่ปลอดภัยในการ ทำงานเสนอต่อนายจ้าง
- รายงานและเสนอแนะมาตรการหรือแนวทางปรับปรุงแก้ไขสภาพการทำงานและสภาพแวดล้อมในการทำงานให้เป็นไปตามกฎหมายเกี่ยวกับความปลอดภัยในการทำงานต่อนายจ้างเพื่อความปลอดภัยในการทำงานของลูกจ้าง ผู้รับเหมาและบุคคลภายนอกที่เข้ามาปฏิบัติงานหรือเข้ามาใช้บริการในสถานประกอบการ
- ส่งเสริมและสนับสนุนกิจกรรมด้านความปลอดภัยในการทำงานของสถานประกอบการกิจการ
- พิจารณาผู้มีความรู้ด้วยความปลอดภัย อาชีวอนามัยและสภาพแวดล้อมในการทำงานของสถานประกอบการกิจการเพื่อเสนอความเห็นต่อนายจ้าง
- สำรวจการปฏิบัติตามด้านความปลอดภัยในการทำงานและรายงานผลการสำรวจดังกล่าว รวมทั้งสถิติการประสบอันตรายที่เกิดขึ้นในสถานประกอบการกิจการนั้น ในการประชุมคณะกรรมการความปลอดภัยทุกครั้ง
- พิจารณาโครงการหรือแผนการฝึกอบรมเกี่ยวกับความปลอดภัยในการทำงาน รวมถึงโครงการหรือแผนการอบรมเกี่ยวกับบทบาทหน้าที่ความรับผิดชอบในด้านความปลอดภัยของลูกจ้าง หัวหน้างาน ผู้บริหาร นายจ้างและบุคลากรทุกระดับเพื่อเสนอความเห็นต่อนายจ้าง
- จัดวางระบบให้ลูกจ้างทุกคนทุกระดับมีหน้าที่ต้องรายงานสภาพการทำงานที่ไม่ปลอดภัยต่อนายจ้าง
- ติดตามผลความคืบหน้าเรื่องที่เสนอต่อนายจ้าง
- รายงานผลการปฏิบัติงานประจำปี รวมทั้งระบุปัญหา อุปสรรคและข้อเสนอแนะในการปฏิบัติงานที่ของคณะกรรมการความปลอดภัยเมื่อปฏิบัติงานที่ครบหนึ่งปีเสนอต่อนายจ้าง
- ประเมินผลการดำเนินงานด้านความปลอดภัยในการทำงานของสถานประกอบการกิจการ
- ปฏิบัติงานด้านความปลอดภัยในการทำงานอื่นตามที่นายจ้างมอบหมาย

คณะกรรมการดังกล่าว มีวาระการทำงานตั้งแต่วันที่ 1 เมษายน 2566 ถึงวันที่ 31 ธันวาคม 2567

จึงประกาศมาเพื่อทราบโดยทั่วกัน

ประธานเจ้าหน้าที่บริหาร



STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED
บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

เลขทะเบียนนิติบุคคล 0107555000155

Announcement

Mar 31st, 2023

From : Chief Executive Officer
To : All SPRC Employees
Subject : Appointment SPRC EHS Main Committee (Rev.1)

In order to effective and continual implement of SPRC EHS Management, the EHS Main Committee has been revised by changing employer representative (Chairman) which aligning with the updating SPRC Organization. So, the company would like to announce the updating SPRC EHS Main Committee revision one which consists of the Person from Appointment (Employer Representative) and Election (Employee Representative) as following:

Employer Representative Members:

1. Mr. Narong	Triyotee	GR (Chairman)
2. Mr. Pongkorn	Chochuwong	GE
3. Mr. Paul	Andrew Rushworth	PN
4. Miss Chaowasri	Luengratanakorn	PD
5. Mr. Wisit	Sukprasert	AS
6. Mr. Watdhanasilp	Rajadej	AS/6

Employee Representative Members:

1. Mr. Pinpong	Hattakitudom	PN/53
2. Mr. Tassanapan	Angkanawin	PN/34
3. Mr. Sathapana	Seichun	PD/31
4. Mr. Songkran	Yasaro	AS/243
5. Mrs. Saowapha	Thamsuruk	HR/12
6. Miss. Watcharaporn	Watcharanurak	TE/26

Member and secretary

1. Mr. Warayut	Promino	QS/41
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(Safety Officer – Professional Level)



STAR PETROLEUM REFINING PUBLIC COMPANY LIMITED
บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

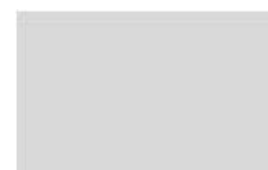
เลขทะเบียนนิติบุคคล 0107555000155

Responsibilities of the EHS Main Committee

1. Develop EHS related policies, action plan and activities for both work and non-work related safety to prevent accidents, illness, nuisance or unsafe conditions proposing to the employer.
2. Develop EHS measures, guideline to prevent incidents from the employee's work and make suggestion for the employer.
3. Recommend any corrective or improvement measures to comply with the law and standard for the safety of employee, contractor and visitor.
4. Promote and support EHS programs and related activities.
5. Consider EHS rules, regulations, safety manual and safety standard proposing to the employer.
6. Conduct EHS walkthrough survey and review injury statistic once a month.
7. Consider EHS training program or plan and responsibility training program or plan about responsibility of supervisor, manager, employer and staff at all level proposing idea to the employer.
8. Set the unsafe condition and near miss report system which are the responsibility of all employees.
9. Follow up the progress of proposed EHS items.
10. Prepare performance report of the committee including problems found and suggestion for the employer on a yearly basis.
11. Evaluate the EHS performance of the company.
12. Implement any EHS activities assigned by employer.

The term of this committee is valid from April 1, 2023 to December 31, 2024.

Please be informed accordingly.



Chief Executive Officer



Minutes of SPRC EHS Main Committee Meeting

Meeting No. : EHSM2024-05 **Place :** M-226 meeting room

Date : 23 May 2024 **Time :** 13:30-14:30 hrs.

Attendees:

K. Pongkorn C. (GE)	- Chairman(Acting)
K. Paul R (VP-PN)	- Employer representative
K. Chaowasri (VP-SB)	- Employer representative
K. Sathapana S. (PD/31)	- Employee representative
K. Saowapha Th.(HR/12)	- Employee representative
K. Songkran (AS/243)	- Employee representative
K. Pinpong H. (PN/53)	- Employee representative
K. Watcharaporn W. (TE/26)	- Employee representative
K. Warayut (QS/41)	- Secretary
K. Paitoon M. (QS/4)	- Lead Health and Safety
K. Wattana M. (QS/5)	- Process Safety Manager
K. Chudapa P.(QS/42)	- Health & Safety Specialist
K. Nillawan P.(QS /43)	- Health & Safety Specialist
K. Teerawat C.(TE/81)	- Laboratory safety commette

Apologize:

K. Narong T. (GR)	- Chairman
K. Wisit S. (AS)	- Employer representative
K. Akasit R(AS)	- Employer representative
K. Watdhanasilp R.(AS/1)	- Employer representative
K. Tassanapan A. (PN/34)	- Employee representative

Agenda	Details	Action by	Status/Due date
1	IIF Moment/SAA High-light		
	<p>K. Pinpong shared about a recent incident at the Map Ta Phut Tank Terminal. On May 9, 2024, a massive fire & explosion occurred at MTT in Rayong province, originating from a pyrolysis gasoline tank during a dip tank activity which ignited a devastating fire. Key learning points include understanding the safe work practice, fire triangle and ensuring the reliability of equipment like PVRV and PCV to ensure they function properly.</p> <p>K.Watcharaporn shared the highlight SAA for Tank shutdown activity at 60D342</p> <ul style="list-style-type: none">- Good observation for Hole watcher demonstrated well on her job such as check the entry person before allow them inside, gas measurement, consistently record entry log- Working crews well understood where they would go in case of emergency.		

Agenda	Details	Action by	Status/Due date																																																								
	<p>K.Chudapa shared the highlight SAA for pre-shutdown activity at RFCCU .</p> <ul style="list-style-type: none">- Good observation for Heat protection measures were in place for the activity, including providing drinking water in the rest area and maintaining good housekeeping practices. When working near the standpipe, it's important to be mindful of hot surfaces and the heat in the environment. <p>K. Nillawan shared the highlight SAA for Tank shutdown activity at 60D342</p> <ul style="list-style-type: none">- The name of the fire watcher specified in the PTW pack did not match the person present at the work site.- The cable tray was unprotected when laid on the ground, risking damage from nearby activities such as forklift operations.- There was a consistent record entry log for confined space entry and heat index measurements. <p>K. K.Paitoon shared the highlight SAA for cable pulling activity at Platformer area</p> <ul style="list-style-type: none">- Overall, there was good awareness of hazards and safety practices, such as using hard barricades. However, some areas were not covered, so we recommend adding barricades, even if only soft ones.- Additionally recommend having a step ladder/stand was provided for safely stepping down into the trench while the team pulled cables across it.																																																										
2	EHS Performance																																																										
	<p>2.1 EHS Performance</p> <p>K.Warayut reported EHS performance of Apr'2024 are as followings;</p> <p><u>OE Statistic</u></p> <table><tr><th rowspan="2">Focus Area</th><th rowspan="2">KPI</th><th colspan="2">Performance</th></tr><tr><th>Month</th><th>YTD</th></tr><tr><td rowspan="3">Workforce Safety & Health</td><td>No one get hurt (Recordable Injuries)</td><td>0</td><td>0</td></tr><tr><td>Serious Injuries & Fatalities -case</td><td>0</td><td>0</td></tr><tr><td>Probable Serious Injuries & Facilities -case</td><td>0</td><td>0</td></tr><tr><td rowspan="4">Process Safety, Reliability and integrity</td><td>Severe LOC Tier 1 – case</td><td>0</td><td>0</td></tr><tr><td>LOC Tier 1 - case</td><td>0</td><td>0</td></tr><tr><td>LOC Tier 2 - case</td><td>0</td><td>0</td></tr><tr><td>Operational Availability (OA) - %</td><td>0</td><td>0</td></tr><tr><td rowspan="2">Environment</td><td>Recordable Spill - case</td><td>0</td><td>0</td></tr><tr><td>Recordable Community Disturbance - case</td><td>0</td><td>0</td></tr><tr><td>Efficiency</td><td>EII</td><td>88.79 (Feb)</td><td>89.03</td></tr><tr><td>Security</td><td>Cybersecurity incident - case</td><td>0</td><td>0</td></tr><tr><td>Stakeholder</td><td>Enforcement Actions - case</td><td>0</td><td>0</td></tr><tr><td colspan="2">Hours since last Recordable Injury Case (30 Nov 2023)</td><td colspan="2">1,072,405</td></tr><tr><td colspan="2">Hours since last Days Away From Work Case (24 Jun 2013)</td><td colspan="2">37,180,725</td></tr></table>	Focus Area	KPI	Performance		Month	YTD	Workforce Safety & Health	No one get hurt (Recordable Injuries)	0	0	Serious Injuries & Fatalities -case	0	0	Probable Serious Injuries & Facilities -case	0	0	Process Safety, Reliability and integrity	Severe LOC Tier 1 – case	0	0	LOC Tier 1 - case	0	0	LOC Tier 2 - case	0	0	Operational Availability (OA) - %	0	0	Environment	Recordable Spill - case	0	0	Recordable Community Disturbance - case	0	0	Efficiency	EII	88.79 (Feb)	89.03	Security	Cybersecurity incident - case	0	0	Stakeholder	Enforcement Actions - case	0	0	Hours since last Recordable Injury Case (30 Nov 2023)		1,072,405		Hours since last Days Away From Work Case (24 Jun 2013)		37,180,725			
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Agenda	Details	Action by	Status Due date
	<ul style="list-style-type: none"> K. Wattana additionally updated that there will be a discussion about "Evacuation practice for serious incidents from neighboring companies." Any conclusions or updates will be shared later. <p>K.Teerawat reported to the committee about the key highlight issues of Contractor EHS committee as detailed below;</p> <ul style="list-style-type: none"> Provided update the learning incident from MTT incident to verify the grounding wire in the laboratory, ensuring the grounding system in the laboratory building is functioning properly. Updated issue: Fume hood number 11 was out of service. The Lab Safety Committee coordinated with the vendor and it has since been fixed. <p>K.Songkarn reported to the committee about the key highlight issues of Contractor EHS committee as detailed below;</p> <ul style="list-style-type: none"> No highlight concerns from contractors. 		
2	EHS Performance		
	<p>2.3 SWP Summary report Q1-2024</p> <p>K. Warayut presented the SWP summary report for Q1, 2024 to the committee as highlight below.</p> <ul style="list-style-type: none"> Total number of SWP for Q1 were 226 reports with 2,957 safe items and 24 unsafe items. Top 3 unsafe items to focus for 2024 as below <ul style="list-style-type: none"> Permit to Work Log Out – Tag Out First break etc. 		Info
3	Review action from last meeting		
	<p>3.1 Review of Action Item from last meeting</p> <p>The action items in progress include:</p> <p>K.Warayut provided update, the majority of actions are currently in-progress following:</p> <ul style="list-style-type: none"> Analyze SWP data and bring to review in our committee on quarterly basis. Check possibility to invite EHS committee of the Bangkok Commercial team(SFL) to participate in our meetings or maybe share information of EHS main committee between refinery and commercial. <ul style="list-style-type: none"> K. Paitoon updated that the SPRC Bangkok team, consisting of APX. 5-6 people will join and observe our EHS Main Committee in Jul 2024. 	Warayut Paitoon	Done In-progress

Agenda	Details	Action by	Status/ Due date
	<p>3.1 Review of Action Item from last meeting The action items in progress include:</p> <ul style="list-style-type: none"> Explore how to enhance data analysis which brought in information from e-PTW system such as identification of bad actors or other metrics. <p>3.1 Summary Take a Break with IIF K. Chudapa presented the summary of "Take a Break with IIF" to the committee for information as highlighted below;</p> <ul style="list-style-type: none"> Conducted 8 sessions across 17 companies, engaging 218 participants. The feedback was very positive, highlighting the workshop as a great opportunity to refresh knowledge about IIF culture, Take 5, and the Hazard Wheel. Participants found it valuable for learning and sharing safety practices, which helped elevate overall safety awareness. It also made personal commitments to safety. Moving forward, we plan to expand these sessions to medium and high-risk contractors group with upcoming scheduled for CR3, CBI, and the shift staff at the PU workshop. 	<p>Warayut</p> <p>Warayut</p> <p>Chudapa</p>	<p>Done</p> <p>In-progress</p> <p>-</p>
4	Consideration topic		
	There was no consideration topic	-	-
5	Roundtable		
	<p>K. Paul provided an update about the upcoming FCC shutdown, noting that there will be extensive scaffolding and preparation work around the standpipe area, making it a high-intensity work zone. Emphasized the importance of team safety and mindfulness of activities on the ground, such as the scaffolding team. Encouraged to participate in the SAA, be mindful during activities, and join the V&V activities.</p> <p>K. Pongkorn reminded our team to cascade and emphasize the importance of keeping the inter-unit gate at the restricted area closed after a vehicle goes in or out to our working crews, as it has been frequently observed left open. Please remind the team to ensure the gate is kept in proper position.</p> <p>Additionally, remind everyone about the transition to Type-II safety helmets especially our contractor. Make sure the contractors follow the transition plan to switch from Type-I to Type-II helmets.</p> <p>Slide pack: <u>EHS_main_committee\2024\Meeting Presentation 05May 2024.pptx</u></p>	<p>-</p> <p>-</p>	<p>Info.</p> <p>Info.</p>

Close meeting on 14:30 hrs.