

ภาคผนวก ข

เอกสารประกอบการปฏิบัติตาม
มาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม

ภาคผนวก ข.1

เอกสารประกอบการปฏิบัติตาม
มาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม
ในระยะก่อสร้าง

ภาคผนวก ข.1-1

หนังสือขอความร่วมมือให้บริษัทผู้รับเหมา
ปฏิบัติตามมาตรการและระเบียบปฏิบัติสำหรับงานขนส่ง



Star Petroleum Refining Public Co.,Ltd.

ที่ SPRC-EP-OUT26-04

2 กุมภาพันธ์ 2569

เรื่อง ขอความร่วมมือปฏิบัติตามมาตรการและระเบียบปฏิบัติสำหรับงานขนส่งต่างๆ ให้กับบริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)
ในช่วงงานซ่อมบำรุงใหญ่

เรียน คู่ธุรกิจของ บริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน)

เนื่องด้วยบริษัท สตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด (มหาชน) มีนโยบายในการควบคุมและดูแลกิจกรรมที่เกิดจากการดำเนินงานของบริษัทฯ ทั้งทางตรงและทางอ้อม เพื่อลดผลกระทบต่อชุมชนที่อาจเกิดจากกิจกรรมการขนส่งคนงาน วัสดุอุปกรณ์ วัตถุอันตราย สิ่งปฏิกูลหรือวัสดุที่ไม่ใช้แล้ว ของทางบริษัทฯ

ดังนั้นบริษัทฯ จึงใคร่ขอความร่วมมือคู่ธุรกิจทุกท่าน เน้นย้ำให้ผู้ประกอบการขนส่งภายในสังกัดของท่านให้ปฏิบัติตามมาตรการและระเบียบปฏิบัติภายในพื้นที่นิคมอุตสาหกรรมและท่าเรืออุตสาหกรรมมาบตาพุดเพื่อให้การดำเนินงานเป็นไปอย่างเรียบร้อย ปลอดภัย และสอดคล้องกับมาตรการควบคุมการคมนาคมตามประกาศการนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.) ฉบับที่ 68/2557 เรื่อง “การควบคุมการจราจรในพื้นที่มาบตาพุด” บริษัทฯ ขอความร่วมมือจากท่าน ปฏิบัติตามข้อกำหนดด้านการจราจรและการขนส่งอย่างเคร่งครัด โดยมีรายละเอียดดังต่อไปนี้

1. ให้ปฏิบัติตามมาตรการที่กำหนดในประกาศการนิคมอุตสาหกรรมแห่งประเทศไทย ที่ 68/2557 เรื่องการควบคุมการจราจรในกลุ่มอุตสาหกรรมและท่าเรืออุตสาหกรรมในพื้นที่มาบตาพุดอย่างเคร่งครัด
2. การเดินรถบรรทุกให้วางแผนการใช้เส้นทางคมนาคมโดยใช้เส้นทางหลัก เช่น ทางหลวงแผ่นดินหมายเลข 363 ทางหลวงแผ่นดินหมายเลข 3 ทางหลวงแผ่นดินหมายเลข 3191 เป็นต้น และหลีกเลี่ยงเส้นทางที่มีการจราจรหนาแน่น เช่น ถนนมาบตาพุด-หาดทรายทอง ถนนห้วยโป่ง-หนองบอน ถนนเนินพยอม เป็นต้น รวมทั้งเส้นทางที่ก่อให้เกิดผลกระทบกับชุมชน เพื่อลดผลกระทบจากการขนส่งที่อาจเกิดขึ้น
3. วางแผนหลีกเลี่ยงมิให้รถบรรทุกของโครงการขั้วขึ้นเขตกลุ่มนิคมอุตสาหกรรมและท่าเรืออุตสาหกรรมพื้นที่มาบตาพุด ในช่วงชั่วโมงเร่งด่วนของวันทำการ ระหว่างเวลา 07.00-08.00 น. และ 16.30-18.30 น. ซึ่งอาจส่งผลกระทบต่อผลการจราจร
4. ควบคุมน้ำหนักบรรทุกให้อยู่ในเกณฑ์ที่กฎหมายกำหนด และต้องจัดให้มีวัสดุปิดคลุมเพื่อป้องกันการตกหล่น
5. จำกัดความเร็วสูงสุดของยานพาหนะ ได้แก่ รถบรรทุก รถตู้บรรทุก (Container) รถพ่วง (Trailer) และรถกึ่งพ่วง (Semitrailer) ให้ไม่เกิน 45 กิโลเมตรต่อชั่วโมง
6. กำหนดให้ติดป้ายชื่อและหมายเลขโทรศัพท์ที่รถขนส่งวัสดุอุปกรณ์ และรถขนส่งคนงานอย่างชัดเจน
7. อบรมและเน้นย้ำให้พนักงานขับรถมีความระมัดระวังและปฏิบัติตามกฎจราจรอย่างเคร่งครัด
8. หากได้รับการตรวจวัดแอลกอฮอล์ก่อนเข้าพื้นที่ของบริษัทฯ พนักงานขับรถจะต้องยินยอมรับการตรวจ โดยผลการตรวจวัดต้องมีปริมาณแอลกอฮอล์ = 0 มิลลิกรัมเปอร์เซ็นต์จึงจะสามารถเข้าปฏิบัติงานได้

จึงเรียนมาเพื่อทราบและขอความร่วมมือให้ปฏิบัติตามอย่างเคร่งครัด

ขอแสดงความนับถือ



Business Control Manager

ภาคผนวก ข.1-2

ผลการตรวจวัดระดับเสียงในระยะก่อสร้าง

Measurement Results of Sound Pressure Level during Maintenance Phase
Refinery Plant, Star Petroleum Refining Public Co., Ltd.
during February 12-14, 2026

Station	Measurement Date	Measurement Result of Sound Pressure Level (dBA)				Photograph
		Leq 24 hr	Lmax	Ldn	L90	
1. North side fence next to Admin.	Feb 12-13, 2026 Feb 13-14, 2026	52.5 52.8	81.1 84.5	57.6 58.3	49.2 49.2	
2. North side fence next ERC	Feb 12-13, 2026 Feb 13-14, 2026	53.4 52.7	81.1 84.1	58.8 58.6	50.0 48.8	
3. East side fence next to Crude Tank 60D104	Feb 12-13, 2026 Feb 13-14, 2026	61.6 61.9	87.7 92.0	66.3 66.2	51.7 50.8	
4. South side fence next ETP	Feb 12-13, 2026 Feb 13-14, 2026	61.1 60.8	91.6 81.2	65.6 65.5	57.4 57.0	
Standard ⁽¹⁾		70	115	-	-	

Remark : ⁽¹⁾ Notification of the National Environment Board, B.E. 2540.

Measurement Results of Sound Pressure Level during Maintenance Phase
Refinery Plant, Star Petroleum Refining Public Co., Ltd.
during February 12-14, 2026

Station	Measurement Date	Measurement Result of Sound Pressure Level (dBA)				Photograph
		Leq 24 hr	Lmax	Ldn	L90	
5. Southwest side fence next to Fuel Oil Tank	Feb 12-13, 2026 Feb 13-14, 2026	57.6 57.1	85.8 82.6	63.8 63.6	56.5 56.0	
6. West side fence next to Flare	Feb 12-13, 2026 Feb 13-14, 2026	62.8 62.3	81.7 88.2	69.6 68.7	60.1 59.4	
Standard ⁽¹⁾		70	115	-	-	

Remark : ⁽¹⁾ Notification of the National Environment Board, B.E. 2540.



Noise Monitoring Result : Community Noise MTR-SPRC PLC-Refinery

Location : North side fence next to Admin	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303409
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	Equivalent Sound Pressure Level (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
10:00 - 11:00	52.0	51.9
11:00 - 12:00	50.7	51.7
12:00 - 13:00	51.9	53.6
13:00 - 14:00	53.5	53.3
14:00 - 15:00	51.8	53.5
15:00 - 16:00	53.9	54.4
16:00 - 17:00	54.9	54.9
17:00 - 18:00	54.1	54.8
18:00 - 19:00	54.5	53.9
19:00 - 20:00	54.8	53.6
20:00 - 21:00	50.7	50.7
21:00 - 22:00	48.7	49.5
22:00 - 23:00	49.7	50.6
23:00 - 00:00	47.5	47.5
00:00 - 01:00	46.0	46.2
01:00 - 02:00	45.8	47.1
02:00 - 03:00	48.1	49.5
03:00 - 04:00	47.7	48.0
04:00 - 05:00	49.1	49.0
05:00 - 06:00	52.4	53.2
06:00 - 07:00	56.5	57.6
07:00 - 08:00	55.7	55.3
08:00 - 09:00	52.7	52.7
09:00 - 10:00	53.8	54.4
Leq(24)*	52.5	52.8
Ldn	57.6	58.3
Lmax **	81.1	84.5
Standard-24Hr	70 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 10:00-10:00

** Maximum Sound Pressure Level between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-SPRC PLC-Refinery

Location : North side fence next to Admin	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303409
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	L90 (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
10:00 - 11:00	50.4	50.4
11:00 - 12:00	46.7	47.2
12:00 - 13:00	49.3	50.8
13:00 - 14:00	51.0	51.6
14:00 - 15:00	48.9	49.9
15:00 - 16:00	50.7	51.3
16:00 - 17:00	52.2	51.9
17:00 - 18:00	51.3	52.3
18:00 - 19:00	51.1	50.4
19:00 - 20:00	51.3	50.5
20:00 - 21:00	47.5	46.1
21:00 - 22:00	45.8	45.2
22:00 - 23:00	45.2	45.9
23:00 - 00:00	44.3	44.6
00:00 - 01:00	43.2	44.5
01:00 - 02:00	43.3	44.8
02:00 - 03:00	45.2	46.3
03:00 - 04:00	45.3	44.7
04:00 - 05:00	45.8	44.5
05:00 - 06:00	46.1	46.5
06:00 - 07:00	51.1	49.9
07:00 - 08:00	52.1	51.1
08:00 - 09:00	50.3	50.3
09:00 - 10:00	50.7	50.6
L90(avg)*	49.2	49.2

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise

MTR-SPRC PLC-Refinery

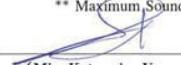
Location : North side fence next ERC	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303408
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	Equivalent Sound Pressure Level (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
11:00 - 12:00	53.6	53.8
12:00 - 13:00	52.4	52.7
13:00 - 14:00	53.5	52.9
14:00 - 15:00	54.2	53.9
15:00 - 16:00	53.8	53.2
16:00 - 17:00	55.2	54.8
17:00 - 18:00	53.4	53.0
18:00 - 19:00	54.9	53.7
19:00 - 20:00	56.6	54.8
20:00 - 21:00	55.1	53.1
21:00 - 22:00	53.7	52.8
22:00 - 23:00	52.1	52.4
23:00 - 00:00	51.5	50.5
00:00 - 01:00	49.0	50.9
01:00 - 02:00	50.7	50.3
02:00 - 03:00	50.8	51.6
03:00 - 04:00	51.0	51.6
04:00 - 05:00	52.8	51.5
05:00 - 06:00	53.3	52.8
06:00 - 07:00	54.8	54.8
07:00 - 08:00	53.5	54.4
08:00 - 09:00	51.2	49.6
09:00 - 10:00	54.3	49.9
10:00 - 11:00	51.4	50.1
Leq(24)*	53.4	52.7
Ldn	58.8	58.6
Lmax **	81.1	84.1
Standard-24Hr	70 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 11:00-11:00

** Maximum Sound Pressure Level between 11:00-11:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise

MTR-SPRC PLC-Refinery

Location : North side fence next ERC	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303408
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	L90 (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
11:00 - 12:00	49.5	49.0
12:00 - 13:00	49.3	48.3
13:00 - 14:00	51.1	50.1
14:00 - 15:00	51.6	50.9
15:00 - 16:00	51.2	49.8
16:00 - 17:00	52.3	50.0
17:00 - 18:00	50.6	49.9
18:00 - 19:00	50.7	48.4
19:00 - 20:00	50.8	49.6
20:00 - 21:00	51.3	49.5
21:00 - 22:00	49.7	48.4
22:00 - 23:00	49.3	48.7
23:00 - 00:00	48.5	47.0
00:00 - 01:00	47.7	47.6
01:00 - 02:00	47.5	47.4
02:00 - 03:00	49.2	49.4
03:00 - 04:00	49.2	48.1
04:00 - 05:00	49.7	48.0
05:00 - 06:00	49.3	47.9
06:00 - 07:00	50.8	49.9
07:00 - 08:00	49.6	48.7
08:00 - 09:00	47.9	46.9
09:00 - 10:00	51.1	47.8
10:00 - 11:00	48.9	47.7
L90(avg)*	50.0	48.8

Remark : * Average time between 11:00-11:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise

MTR-SPRC PLC-Refinery

Location : East side fence next to Crude Tank 60D104		Monitor Period : 12-14 Feb 2026	
SLM Model : Cirrus CR161B		Serial No : G303821	
Site Operator : Mr. Song Hengchwankun			
Calibrator Model : Cirrus CR:515		Serial No : 97097	
Calibration Ref dB(A) : 94.0		Certified Date : 14 Oct 2025	
SLM Reading / Adjust dB(A) : 93.7/0.0		Expire Date : 13 Oct 2026	
Cal Sheet No.: CR-515-2026-034			
Time	Equivalent Sound Pressure Level (dB(A))		
	12-13 Feb 2026		13-14 Feb 2026
13:00 - 14:00	59.3		60.2
14:00 - 15:00	59.1		59.5
15:00 - 16:00	62.2		63.8
16:00 - 17:00	64.1		63.8
17:00 - 18:00	65.2		66.2
18:00 - 19:00	64.1		65.2
19:00 - 20:00	63.6		64.0
20:00 - 21:00	62.5		61.9
21:00 - 22:00	59.8		61.3
22:00 - 23:00	58.7		59.2
23:00 - 00:00	57.7		58.8
00:00 - 01:00	54.7		55.6
01:00 - 02:00	52.2		56.2
02:00 - 03:00	57.5		55.2
03:00 - 04:00	53.1		54.7
04:00 - 05:00	56.5		56.7
05:00 - 06:00	59.6		59.6
06:00 - 07:00	65.5		64.3
07:00 - 08:00	66.2		64.9
08:00 - 09:00	62.5		61.5
09:00 - 10:00	59.8		60.1
10:00 - 11:00	58.6		60.5
11:00 - 12:00	60.5		63.2
12:00 - 13:00	61.3		62.0
Leq(24)*	61.6		61.9
Ldn	66.3		66.2
Lmax **	87.7		92.0
Standard-24Hr	70 dB(A)		
Standard-Max	115 dB(A)		

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise

MTR-SPRC PLC-Refinery

Location : East side fence next to Crude Tank 60D104		Monitor Period : 12-14 Feb 2026	
SLM Model : Cirrus CR161B		Serial No : G303821	
Site Operator : Mr. Song Hengchwankun			
Calibrator Model : Cirrus CR:515		Serial No : 97097	
Calibration Ref dB(A) : 94.0		Certified Date : 14 Oct 2025	
SLM Reading / Adjust dB(A) : 93.7/0.0		Expire Date : 13 Oct 2026	
Cal Sheet No.: CR-515-2026-034			
Time	L90 (dB(A))		
	12-13 Feb 2026	13-14 Feb 2026	
13:00 - 14:00	49.8	49.3	
14:00 - 15:00	48.8	49.3	
15:00 - 16:00	50.1	50.2	
16:00 - 17:00	54.2	53.8	
17:00 - 18:00	57.6	56.9	
18:00 - 19:00	55.0	55.3	
19:00 - 20:00	53.9	53.3	
20:00 - 21:00	50.0	49.3	
21:00 - 22:00	46.6	47.5	
22:00 - 23:00	45.2	46.0	
23:00 - 00:00	45.1	45.0	
00:00 - 01:00	45.0	44.3	
01:00 - 02:00	45.7	44.1	
02:00 - 03:00	46.9	44.1	
03:00 - 04:00	44.3	44.5	
04:00 - 05:00	44.9	43.9	
05:00 - 06:00	48.1	47.2	
06:00 - 07:00	56.0	54.6	
07:00 - 08:00	57.7	55.1	
08:00 - 09:00	50.8	49.0	
09:00 - 10:00	49.0	47.8	
10:00 - 11:00	47.3	47.4	
11:00 - 12:00	50.0	48.9	
12:00 - 13:00	50.2	47.9	
L90(avg)*	51.7	50.8	

Remark : * Average time between 13:00-13:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-SPRC PLC-Refinery

Location : South side fence next to ETP	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303833
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	Equivalent Sound Pressure Level (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
13:00 - 14:00	62.7	61.3
14:00 - 15:00	60.6	60.8
15:00 - 16:00	61.3	61.6
16:00 - 17:00	63.2	63.0
17:00 - 18:00	63.6	62.8
18:00 - 19:00	62.8	62.9
19:00 - 20:00	63.2	63.0
20:00 - 21:00	61.7	61.4
21:00 - 22:00	59.2	58.6
22:00 - 23:00	58.1	58.8
23:00 - 00:00	58.2	58.7
00:00 - 01:00	58.4	58.1
01:00 - 02:00	56.3	57.9
02:00 - 03:00	56.4	57.3
03:00 - 04:00	57.1	56.7
04:00 - 05:00	57.4	57.1
05:00 - 06:00	58.5	58.1
06:00 - 07:00	62.0	61.3
07:00 - 08:00	63.9	63.8
08:00 - 09:00	62.4	62.2
09:00 - 10:00	60.7	59.7
10:00 - 11:00	61.1	60.4
11:00 - 12:00	62.6	61.4
12:00 - 13:00	61.5	60.9
Leq(24)*	61.1	60.8
Ldn	65.6	65.5
Lmax **	91.6	81.2
Standard-24Hr	70 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 13:00-13:00

** Maximum Sound Pressure Level between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-SPRC PLC-Refinery

Location : South side fence next to ETP	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303833
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	L90 (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
13:00 - 14:00	57.5	57.8
14:00 - 15:00	56.2	57.4
15:00 - 16:00	56.5	57.5
16:00 - 17:00	58.7	58.4
17:00 - 18:00	59.5	58.2
18:00 - 19:00	59.3	58.9
19:00 - 20:00	58.7	57.9
20:00 - 21:00	56.3	56.0
21:00 - 22:00	55.3	55.4
22:00 - 23:00	55.0	55.7
23:00 - 00:00	55.2	55.7
00:00 - 01:00	54.9	55.7
01:00 - 02:00	54.7	55.4
02:00 - 03:00	55.2	55.6
03:00 - 04:00	55.6	55.4
04:00 - 05:00	56.1	55.7
05:00 - 06:00	56.5	56.4
06:00 - 07:00	58.7	58.0
07:00 - 08:00	60.6	60.2
08:00 - 09:00	58.5	57.8
09:00 - 10:00	57.1	55.9
10:00 - 11:00	56.8	56.3
11:00 - 12:00	58.3	56.6
12:00 - 13:00	57.6	56.3
L90(avg)*	57.4	57.0

Remark : * Average time between 13:00-13:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

Preeda S.
(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-SPRC PLC-Refinery

Location : Southwest side fence next to Fuel Oil Tank	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G301331
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	Equivalent Sound Pressure Level (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
14:00 - 15:00	58.5	57.0
15:00 - 16:00	59.5	56.8
16:00 - 17:00	59.0	57.3
17:00 - 18:00	58.6	57.7
18:00 - 19:00	57.2	57.0
19:00 - 20:00	57.9	56.9
20:00 - 21:00	57.8	57.1
21:00 - 22:00	57.5	58.1
22:00 - 23:00	58.3	57.4
23:00 - 00:00	58.4	57.5
00:00 - 01:00	57.3	57.7
01:00 - 02:00	57.5	57.3
02:00 - 03:00	57.6	57.6
03:00 - 04:00	56.6	57.2
04:00 - 05:00	57.0	57.0
05:00 - 06:00	56.1	56.2
06:00 - 07:00	56.0	56.5
07:00 - 08:00	57.0	57.6
08:00 - 09:00	55.9	57.5
09:00 - 10:00	57.4	56.1
10:00 - 11:00	57.3	56.5
11:00 - 12:00	58.1	56.3
12:00 - 13:00	56.8	56.9
13:00 - 14:00	57.0	56.9
Leq(24)*	57.6	57.1
Ldn	63.8	63.6
Lmax **	85.8	82.6
Standard-24Hr	70 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 14:00-14:00

** Maximum Sound Pressure Level between 14:00-14:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-SPRC PLC-Refinery

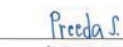
Location : Southwest side fence next to Fuel Oil Tank	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G301331
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	L90 (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
14:00 - 15:00	57.8	55.9
15:00 - 16:00	57.7	55.7
16:00 - 17:00	58.0	55.6
17:00 - 18:00	57.6	56.7
18:00 - 19:00	55.9	56.1
19:00 - 20:00	56.8	56.2
20:00 - 21:00	57.0	56.2
21:00 - 22:00	56.7	57.1
22:00 - 23:00	57.1	56.6
23:00 - 00:00	57.1	56.5
00:00 - 01:00	56.5	56.5
01:00 - 02:00	56.6	56.5
02:00 - 03:00	56.5	56.5
03:00 - 04:00	55.9	56.5
04:00 - 05:00	56.0	56.0
05:00 - 06:00	55.0	55.4
06:00 - 07:00	54.9	55.7
07:00 - 08:00	55.7	56.2
08:00 - 09:00	54.4	55.5
09:00 - 10:00	56.3	54.9
10:00 - 11:00	56.3	55.5
11:00 - 12:00	56.0	55.3
12:00 - 13:00	55.6	56.0
13:00 - 14:00	55.8	55.3
L90(avg)*	56.5	56.0

Remark : * Average time between 14:00-14:00


(Miss Katesarin Vorradetwittaya)
Environmental Scientist


(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Community Noise MTR-SPRC PLC-Refinery

Location : West side fence next to Flare	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303830
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	Equivalent Sound Pressure Level (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
10:00 - 11:00	61.6	62.3
11:00 - 12:00	61.5	65.3
12:00 - 13:00	61.5	61.7
13:00 - 14:00	61.8	61.5
14:00 - 15:00	61.9	62.7
15:00 - 16:00	61.9	62.7
16:00 - 17:00	62.9	62.4
17:00 - 18:00	63.0	62.3
18:00 - 19:00	63.5	62.2
19:00 - 20:00	62.9	61.7
20:00 - 21:00	63.2	62.0
21:00 - 22:00	63.4	62.3
22:00 - 23:00	63.3	62.5
23:00 - 00:00	63.1	62.3
00:00 - 01:00	62.8	61.6
01:00 - 02:00	62.3	62.3
02:00 - 03:00	62.9	62.9
03:00 - 04:00	63.0	62.7
04:00 - 05:00	64.9	62.3
05:00 - 06:00	63.9	62.1
06:00 - 07:00	63.4	62.1
07:00 - 08:00	62.2	62.1
08:00 - 09:00	61.9	61.3
09:00 - 10:00	62.4	60.8
Leq(24)*	62.8	62.3
Ldn	69.6	68.7
Lmax **	81.7	88.2
Standard-24Hr	70 dB(A)	
Standard-Max	115 dB(A)	

Remark : * Average time between 10:00-10:00

** Maximum Sound Pressure Level between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team



Noise Monitoring Result : Background Noise MTR-SPRC PLC-Refinery

Location : West side fence next to Flare	Monitor Period : 12-14 Feb 2026
SLM Model : Cirrus CR161B	Serial No : G303830
Site Operator : Mr. Song Hengchwankun	

Calibrator Model : Cirrus CR:515	Serial No : 97097
Calibration Ref dB(A) : 94.0	Certified Date : 14 Oct 2025
SLM Reading / Adjust dB(A) : 93.7/0.0	Expire Date : 13 Oct 2026
Cal Sheet No.: CR-515-2026-034	

Time	L90 (dB(A))	
	12-13 Feb 2026	13-14 Feb 2026
10:00 - 11:00	59.2	59.4
11:00 - 12:00	59.2	59.4
12:00 - 13:00	59.1	58.8
13:00 - 14:00	59.3	58.9
14:00 - 15:00	59.6	59.7
15:00 - 16:00	59.5	59.9
16:00 - 17:00	60.4	59.7
17:00 - 18:00	60.4	59.7
18:00 - 19:00	60.7	59.3
19:00 - 20:00	60.0	58.8
20:00 - 21:00	60.6	59.2
21:00 - 22:00	60.7	59.6
22:00 - 23:00	60.5	59.8
23:00 - 00:00	59.9	59.3
00:00 - 01:00	59.4	58.9
01:00 - 02:00	59.7	59.0
02:00 - 03:00	60.5	60.1
03:00 - 04:00	60.5	59.8
04:00 - 05:00	61.9	59.8
05:00 - 06:00	60.9	59.4
06:00 - 07:00	60.0	59.5
07:00 - 08:00	59.4	59.1
08:00 - 09:00	59.2	58.8
09:00 - 10:00	59.7	58.7
L90(avg)*	60.1	59.4

Remark : * Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)
Environmental Scientist

(Miss Preeda Somjai)
Technical Management Team

ภาคผนวก ข.1-3

เงื่อนไขสัญญาโดยทั่วไป เกี่ยวกับสิ่งแวดล้อม
สุขภาพ และความปลอดภัย



Process Safety & QEHS Department

Prepared by : Chudapa Phugsuwan – QS/42
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Review & Approved by: _____
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(Executive Vice President – Operational Excellence)

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Amendment List

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1 APPLICABILITY

This general contract conditions regarding environment, health and safety form for working in SPRC premises as an integral part of the agreement.

"SPRC" refers to **Star Petroleum Refining Public Company Limited**, its subsidiaries and/or affiliates, including but not limited to, **Star Fuels Marketing Limited**.

2 GENERAL

2.1 Non-Compliance

Non-compliance by contractor, its subcontractor, its alleged subcontractor or any employee or alleged employee of the foregoing, with legal, rules and regulations regarding environment, health and safety, as are detailed in these "General Contract Conditions Regarding Environment, Health and Safety, may result in suspension or cancellation of the agreement.

2.2 Legal Compliance and other requirements

Contractor shall comply with all local legal requirements regarding Environment Health and Safety and SPRC EHS requirements, standards, rules and regulations that are applicable to them.

2.3 Contractor Health, Environment and Safety Management System

2.3.1 General

Contractor shall have proper Environment Health and Safety Management System and ensure that the system is effective by regular review and audit. Contractors shall provide necessary EHS training to their employees and ensure that they are given proper EHS training from SPRC before starting work.

Contractor shall comply with SPRC Contractor Health, Environment and Safety Management Process. This process is to develop and manage a sustainable, fit-for-purpose process that will allow SPRC organizations to continually improve contractor health, environment and safety performance.

2.3.2 EHS Documents and Records

Contractor shall maintain and keep up to date EHS documents and records e.g. Safety Manual, Procedures, Work Instructions, Tool and equipment inspection, Site safety inspection, Training, Minutes of meeting which can be verified and audited by SPRC and other interested parties.

2.3.3 EHS Training Program

Contractor shall conduct safety induction/orientation and other safety related courses as required by law or SPRC requirements for their employees including the competency/skill training to perform the work and the training record shall be maintained.

All contractor personnel shall pass the EHS Induction and IIF Orientation courses before commencing any work on SPRC premises. Contractor has to contact their SPRC Sponsor to book training classes via the SPRC Intranet under the Process Safety & QEHS page. The tentative training schedule at the refinery site is every Monday and Thursday from 08.00 to 16.30. For the commercial site, training will be scheduled upon request once there are at least 5 participants.

The EHS Induction course includes:

- SPRC EHS Policy, Roles and responsibilities
- EHS rules and regulations

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2.4.2 Reporting to SPRC

Contractor shall promptly and accurately report all on-the-job incidents to designated SPRC personnel and where appropriate to the proper governmental authorities. Serious incidents, as listed below, are to be reported immediately and confirmed in writing within 24 hours to SPRC:

- An incident that results in contractor's employee recordable injury
- Property damage resulting in losses in excess of US\$ 1,000.
- All releases or spills of oil, chemicals, or other hazardous substances.

A summary of all incidents shall retain report for SPRC review and audit.

2.4.3 Reporting to Government Authorities

It is the responsibility of contractor to maintain and file all required records related to incidents, injuries, workers' compensation, and other associated incident forms. Copies of any government-issued safety or health citations received by the contractor or its subcontractor while performing work for SPRC shall also be promptly submitted to SPRC.

- Personal Protective Equipment
- Identify and Control Hazard
- Work at Height
- Chemical Hazard
- Safety Sign
- Permit To Work System
- Process Safety Management
- Emergency Alarm and Actions
- Security awareness
- Environmental Protection and Waste Disposal
- Lesson Learnt from Incident
- Test

The list of contractors who pass the EHS Induction test and attend the IIF Orientation will be submitted to Security for ID pass issuing. Contractors who failed the test may undergo retrained and retake the test in the next schedule session. For temporary contract, the ID pass will be valid for the duration specified in the contract but not exceeding one year. These contractors may return to work at SPRC within the same calendar year, provided their training record is still valid. For regular or long-term contracts, the EHS Induction refresher course shall be completed every three years, after which the ID pass will be extended accordingly.

2.3.4 Short Service Employee (SSE) Guideline

Contractor shall comply with the Short Service Employee (SSE) process. This process is to identify contractors who has experienced working in oil, gas and petrochemical industry less than 6 months in the same job type as SSE which required to wear the Safety Helmet with green stripe sticker during first 6 months period.

2.3.5 IIF Passport Process

Contractors shall comply with the IIF Passport Process. The IIF Passport is a small booklet provided to all contractors working on SPRC premises as part of the contractor competence assurance program. Contractors will receive their IIF Passport from security personnel when they receive their ID badge. Contractors are required to:

- Fill in their personal information,
- Attached a photo, and
- Sign the commitment page in the IIF Passport.

Contractors must always carry the IIF Passport while working on SPRC premises.

2.4 Incident Reporting

2.4.1 Incident Investigation

All incidents and near misses must be reported immediately to the relevant Supervisor or Manager or SPRC's Sponsor. The Supervisor or Manager shall:

- Notify his immediate management level of the incident
- Gather all pertinent data concerning the incident
- Prepare a preliminary Incident investigation

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3 SAFETY

3.1 Golden Rules of Safety

In order to achieve incident & injury free and everyone goes home safely every day. Contractors strictly follow the Golden Rules of Safety as follows;

1. **Never** come to work under the influence of alcohol or drugs (0 mg% alcohol or negative tested for illegal drugs)
2. **Never** bring alcohol, cannabis, kratom, illegal drugs, weapons and ignition sources to the site
3. **Never** use unapproved mobile phone in restricted areas
4. **Never** smoke outside designated smoking areas
5. **Never** engage in fighting or threatening behavior
6. **Never** steal property in SPRC premises
7. **Never** remove a scaffold board, handrail, move or modify any scaffolding component

By following Golden Rules of Safety, if contractors choose not follow these Golden Rules then he/she will be subjected to disciplinary action such as unpaid suspension from work or will no longer be allowed to work on SPRC premises.

3.2 General EHS Requirements, Rules & Regulations for contractors who working in restricted areas.

3.2.1 Safety Officer

Contractor shall provide Safety Officer (Supervisory level, Technical level, Advanced Technical level or Professional level) who is qualified by law for working at SPRC and the Safety Officer shall have the duties and responsibilities as required by law. Contractor shall submit the certificate of the Safety Officer to SPRC Sponsor and Process Safety & QEHS Department. The number of Safety Officer on site shall meet minimum requirement as per the ratio below;

Number of Manpower on site	Number of Safety Officer on site
2-19	1 SOS
20-49	1 SOT
50-99	1 SOAT
100-199	1 SOP, 1 SOT/SOAT
200-299	1 SOP, 2 SOT/SOAT
300-399	1 SOP, 3 SOT/SOAT
400-499	1 SOP, 4 SOT/SOAT
500-599	2 SOP, 5 SOT/SOAT
600-699	2 SOP, 6 SOT/SOAT
700-999	2 SOP, 9 SOT/SOAT
1,000-1,499	3 SOP, 13 SOT/SOAT
1,500-1,999	4 SOP, 17 SOT/SOAT
2,000 up	5 SOP, 21 SOT/SOAT

Remark:

- SOS = Safety Officer Supervisory Level
- SOT = Safety Officer Technical Level
- SOAT = Safety Officer Advanced Technical Level
- SOP = Safety Officer Professional Level

Contractor shall ensure that all management and supervisors have received Safety Officer training courses at each level (Supervisory level and Management level) as required by law and record kept for EHS review and audit.

3.2.2 Safety Health and Environment Committee

Contractor shall establish and maintain a Safety Health and Environment Committee as required by law. Contractor shall retain a copy of minutes of meeting and site safety inspection report which carried out by the committee for SPRC EHS review and audit.

3.2.3 Hazard Identification and Risk Assessment

Contractors who are engaged in working on SPRC premises shall conduct proper hazard identification and risk assessment on their routine and non-routine works and demonstrate that their identified work hazards are properly controlled prior to starting the works. Hazard identification and risk assessment can be a simplified Job Safety Analysis. Their documents shall be kept for SPRC review and audit.

3.2.4 EHS Communication, EHS Meeting, Toolbox meeting

Contractors shall arrange a proper channel of EHS communication for their employees. Contractors conduct EHS meetings once a month and Toolbox meetings at least once a week on a regular basis.

3.2.5 EHS Inspections and Audit

Contractors shall have a plan to conduct EHS inspection e.g. tools and equipment inspection, safety equipment inspection, Safe Act Audit (SAA), area/site safety inspection and their internal audit. Contractor shall retain records of all inspections and audit for SPRC review and audit.

3.2.6 Personal Protective Equipment (PPE)

Personal protective equipment shall be worn by contractor's personnel on the job sites as required by law and SPRC EHS Rules & Regulations. Contractor shall pay for and furnish such industry-approved equipment unless otherwise agreed by SPRC in writing.

Minimum Personal Protective Equipment (PPE) for working in Restricted Areas:

- **Safety Helmet with a chin strap** (chin strap is required to be in use whenever wear safety helmet),
 - o Impact attenuation and penetration resistance: Type I,
 - o High dielectric: Class G (withstand 2,200 Volt) or Class E (withstand 20,000 Volt)
 - o Reference standard: ANSI Z89.1-2003 or EN 379.

- Traffic Signs must be strictly followed.
- Speed limit:
 - Fuel Terminal -----20 Km/hr.
 - Refinery -----30 Km/hr.
 - Administration complex ----40 Km/hr.
- Wearing of seatbelts is compulsory.
- No vehicle is allowed to proceed into restricted areas unless provided with an access pass issued by Security.
- Gasoline driven vehicles / engine must not enter Operating Unit or Hazardous Areas/High Risk Areas.

Note: The gasoline engine using for grass cutting is allowed in tank farm areas

- Diesel driven vehicles /engine required to enter an Operating Unit or Hazardous Areas/High Risk Areas must request and receive an appropriate Permit from the unit operations personnel prior to entering the unit.
- Riding on the bed of a truck without a proper seat, guard and roof is not allowed.
- In case of an emergency all vehicles on unrestricted roads, as well as restricted roads, must stop and their engine switched off.
- Using the mobile phone while driving is not allowed. In case of importance call e.g., duty call, drivers must park vehicles in a safe manner to use the phone
- Mobile phone shall be switched off when driving company vehicles or personal vehicle for company business except on-call duty team members and emergency response personnel attending to an emergency situations
- Company-issued mobile phone shall be switched off before moving any vehicle
- The use of two way radios within the refinery while driving should be restricted to listening only and that if any conversation was required the vehicle should be parked prior to engaging in any two-way conversation.

3.2.7.2 Parking Vehicle

Whenever parking a vehicle in the process, tank farm and fuel terminal areas, the following must be ensured:

- Vehicles shall be parked a minimum distance of 5 meters from any fire hydrants, emergency showers or any other emergency equipment painted red.
- Vehicles shall not be parked in such a way that they obstruct the flow of traffic.
- Personnel parking, a vehicles must:
 1. Turn the engine off
 2. Leave the drivers' door unlocked
 3. Leave the key in the ignition.

3.2.8 Bicycles

- All bicycles and tricycles must be equipped with chain guards and brakes. They must be inspected and maintained in good and safe condition.
- Bicycles shall be parked only at the designated parking racks when not in use.
- Bicycles/Tricycle parked in any operating plant road or open area must be at least 5 meters away from Fire Fighting Equipment, 2 meters away from any equipment and must not cause any obstruction to operations.

- **Safety Glasses,**
 - o Single-piece of Polycarbonate lens, scratch-resistance, adjustable temples length. Add-on clear side shield that guard against impact of flying objects entering from the side of the face.
 - o Reference standard : ANSI Z87.1 or EN 166.
- **Safety Shoes,**
 - o Structured steel cap capable of withstanding 2500 lbs. of compression. Designation of (I) for absorbing impact and (C) for compression, slip-resistant outsoles. Falling objects, impact protection, and brief chemical protection such oil and heat resistant.
 - o Reference standard : ANSI Z41 or ASTM 2413, EN ISO 20345, TIS 523-2528.
- **Flame Resistant Clothing,**
 - o Long sleeves shirt/jacket and pants or overall that are designed to resist ignition and self-extinguish when exposed to a flash fire, either inherent to the fabric or chemically treated into it, helps prevent a garment from catching fire and continuing to burn, which can lead to severe burn injuries.
 - o Reference standard : NFPA 2112

Additional PPE that wears or uses in specific working conditions and environment

- **Gloves**
 - o Using gloves where the hazards are potentially exposed to the hands / arms (i.e. cutting protection gloves, chemical protection gloves, electrical protection gloves, heat resistance gloves etc.)
 - o Using gloves when climbing up/down from a ladder or using a staircase
 - o 100 % Cotton gloves are not accepted in SPRC, except gardening work (remove grasses by hands) and filling up air/chemical powder for Breathing Apparatus at the Fire Station.
- **Ear Plugs/Muffs**
 - o In all areas where noise levels are above 85 dB (A), the wearing of hearing protection (Ear Plugs/Muffs) is mandatory.
 - o The Hearing protection mandatory areas are designated by warning signs.
 - o Ear Plugs or Earmuffs are required for high noise activities e.g. grinding, fiber metal cutting, high pressure water jet cleaning, jack hammer.

Additional PPE such as Respiratory Protection Equipment, Goggles, Face shield etc., shall be used for specific job or as specified in Permit To Work.

PPE for working in Laboratory

Personal Protective Equipment (PPE) requirements when working in Laboratory are:

- Safety glasses
 - Safety shoes
 - Long sleeves cotton clothes and long pants
- Contractor who works in Lab shall be aware of and follow all written Lab safety procedures whenever handling any flammable or hazardous materials.

3.2.7 Transportation and Parking of Vehicle in the Refinery and Fuel Terminals**3.2.7.1 Driving Regulations**

Driving Regulations:

- Bicycles/Tricycle used inside of a process unit shall be ridden in main pipe-ways or open areas only.
- The inflation of bicycle / tricycle tires using instrument air is prohibited.

3.2.9 Access and Vehicle Control**3.2.9.1 Access control**

- SPRC shall advise contractor, and contractor shall advise subcontractor as to the entrance area and/or parking facilities, if any, to be used by contractor and all subcontractor's employees, agents and personnel.
- Contractor shall ensure that only those persons having authorized business in connection with the work are allowed on SPRC premises.
- All contractor's employees shall carry SPRC ID badge at all times at SPRC facilities. Up on the contract is completed, the contractor shall return the SPRC badge to security otherwise SPRC have to charge 250 baht for loss of the badge.
- All vehicles must clearly display the SPRC Vehicle Entry sticker.

3.2.9.1 Access to the Restricted Areas

Contractor personnel who are not authorized to enter the Refinery, Marine and Fuel Terminal Areas must:

- Register at the Refinery Entrance Building (REB) or Marine Entrance Gate or Fuel Terminal Entrance Gate to receive an access card.
- If plan to visit Refinery and Marine areas, log in the Restricted Area Access System via SPRC Intranet and notify area owner via radio for the visit.
- Log out after the visit.
- Return to the REB or Marine Entrance Gate or Fuel Terminal Entrance Gate to return the access card after visit.

3.2.10 Permit to Work Systems

Prior to commencing any work on SPRC premises, contractor requires an appropriate and authorized SPRC work permit from the area owner in accordance with SPRC Permit to Work Systems. Contractor shall comply with SPRC Permit to Work Systems.

3.2.11 Pressure Testing

Pipes or vessels shall not be tested by contractor using compressed air or gas or service fluid, except by approved Work Permit.

3.2.12 Movable Electrical Tools and Equipment.

All contractor's portable electrical (including battery operated) tools and equipment and temporary electrical installations shall be tested by the I/E Engineering department before use on site is allowed. A colored sticker, certifying the equipment has been approved, will be placed on the equipment. The inspection sticker is valid for a period of up to four months maximum. The contractor is not allowed to use equipment not tagged with the proper update color. Even though equipment has been tested all right to use, it remains the responsibility of the contractor to ensure that the equipment remains in safe working conditions at all times.

3.2.13 Equipment Operating

Unless directly associated with their designated duties, contractor personnel shall not operate equipment nor open or close any valves, switches, or electric circuits except by approval from SPRC.

3.2.14 Contractor Safety Equipment

- All contractor's safety equipment shall be properly maintained and operable in accordance with manufacturer's instructions and applicable governmental regulations.
- Contractor employees shall be properly trained to handle all applicable safety equipment.
- All contractor's equipment to be used on SPRC premises shall be inspected by SPRC authorized personnel. A valid sticker shall be placed on approved equipment.
- Compressed gas cylinders shall be secured in place on a regular cart or with a chain, not rope to a support in an upright position. All cylinders that are not in use shall be protected with protective valve caps.
- Compressed oxygen and flammable gases shall not be stored near combustible materials but shall be stored in accordance with SPRC safety procedures and governmental regulations.
- If the use of explosives is required, their use and handling shall be subject to written notification to and subsequent written approval from SPRC, prior to the start of the blasting operations, and contractor shall ensure that the blaster is properly qualified for the type of work being done.

3.2.15 Wearing Personal Gas Monitor

Every person entry in Confined Space shall wear a personal 4 gases monitor to continue gases monitoring of oxygen, explosive vapors, hydrogen sulfide and carbon monoxide as a minimum.

The following exceptions apply to the use of continuous gas monitoring, however each situation shall be evaluated case by case:

- a. Green field locations with no process connections.
- b. Vessel skirts (with NO lines passing through the skirt that can be blinded).
- c. Fan shrouds (when process flow is isolated)
- d. Compressor decks
- e. HVAC air handling system
- f. Exchanger shells (both ends open, bundle removed)
- g. Switchgear basements and electrical pull boxes
- h. Excavations
- i. Tanks with door sheets cut and roof open

Note: Hot work performed in any confined space requires continuous gas monitoring.

Entering Process area, Tank Farms and Product Piers requires:

- Contractors and visitors, a personal 4 gases monitor to be worn by at least one person in a group that working at the same job/ equipment and the workers are adjacent in the manner that communications can be done.

3.3.4 Contractor's Fire Fighting Equipment

Fire protection equipment shall be provided by contractor unless otherwise previously agreed by SPRC. The fire extinguisher shall be certified by the manufacturer with a minimum fire rating 40B. The equipment shall be Inspected by the Fire System Specialist or Officer before use on site is allowed. A colored sticker, certifying the approved equipment, will be placed on the equipment. The inspection sticker is valid for a period of up to four months maximum. The contractor is not allowed to use equipment not tagged with the proper update color. Even though equipment has been tested to use, it remains the responsibility of the contractor to ensure that the equipment remains in safe working conditions at all times.

3.3.5 Contractor Rescue Equipment

Contractors shall provide their own rescue equipment to use into SPRC and shall be approved by SPRC Fire System Specialist before use. Exception, there is an agreement in the service contract that the rescue shall be provided by SPRC. The verification sticker will be attached on all approved rescue equipment. Company rescue equipment is not permitted to any service contractors lend or use unless authorized by the fire system specialist. The borrowing of rescue equipment shall be requested by authorized person and use the Rescue Equipment Borrow form.

3.3.6 Reporting Leaks

The finding of a leak or indication of gas around piping or vessels shall be reported at once to any SPRC personnel. All "hot work" in the area shall cease immediately on the discovery of such leak.

3.3.7 Cleaning Solvents

Only cleaning solvents that have a high flash point and are non-toxic may be used for cleaning purposes. SDS sheets are required.

3.3.8 Fire Training

Contractor shall be responsible for the safety and fire protection training of its employees, agents, personnel and subcontractor.

3.3.9 Vehicle Refueling

Contractors shall shut down internal combustion engines and all electrical systems at least 5 minutes before they are refueled.

3.3.10 In Case of Fire

In case of fire, all possible measures should be taken immediately by any personnel in the area to protect the safety of all personnel and to extinguish the fire. The SPRC representative shall be notified as soon as possible. All equipment shall be shut down and removed from the fire location if feasible and access routes shall be cleared.

3.3.11 Equipment in Tank Bund Areas

Motors, compressors, pumps, and other equipment are not allowed inside tank bund (dike) areas, except by approval.

3.2.16 Using of Rope for Lifting

Use of ropes for lifting in SPRC is considered a high potential hazard activity in which an accident can happen resulting from overloading, improper hitching or slinging, improper use of ropes. Contractor shall follow the following guidelines:

- Ropes shall not be loaded in excess of their rated capacities. For use on the refinery, ropes shall not be used for lifting loads in excess of 25 kg, and shall be a minimum 10 mm (or 3/8") diameter. Materials to be lifted must be put in a proper container to prevent falling of objects.
- Ropes shall not be permanently installed for use on the refinery.
- Type, diameter, strength of rope must be specified clearly in permit to work.
- Prior to use, ropes shall be inspected for damage such as wear, fraying or overheated spots. Ropes that are damaged or defective shall not be used

3.2.17 Photography Control

- All personnel are prohibited to use all cameras at SPRC facilities unless authorized.
- All requests by personnel for photography must be done by applying a Photography Permit (form is available at Security Office) and get approval from SPRC Management.
- Personnel approved for photography need to obtain a Photography Badge at Security Office.
- Photography in Refinery / Marine / Fuel Terminal areas are subject to control by Hot Work Permit and approved by authorized area staff.

3.2.18 Using Portable Radio

Using and carrying approved radio in SPRC premises, contractors shall have a proper leather pouch or approved belt clip to carry and prevent radio accidentally falling.

3.3 Fire Protection and Emergency Response

3.3.1 Combustible Material

Paper, rags, trash, and other combustible materials shall only be disposed of in safe containers, so marked with a sign.

3.3.2 Flammable Liquids

Flammable liquids such as gasoline, kerosene, fuel oil, etc., shall be transported and stored in industry-approved metal containers designed specifically for handling these liquids. Flammable liquids shall be stored away from possible sources of heat or ignition.

3.3.3 SPRC's Fire Fighting Equipment

Portable firefighting equipment shall not be altered or tampered with or made inaccessible. Fixed equipment such as monitors, hydrants or main water valves shall not be opened or closed except in the case of emergency.

4 HEALTH

4.1 Medical Aid

Contractor shall have a medical welfare program for all Contractor Group personnel that includes pre-employment and periodic medical examinations/assessments, first aid, case management, medical insurance, public health monitoring, medical reporting, and addresses medical emergencies, medical confidentiality, and appropriate training which shall meet all requirements of Thai law.

4.2 Hospitalization to Contractor's personnel in Case of Injury/ Illness

- When Contractor has an Injury/ Illness on SPRC premises, SPRC will provide the First Aid treatment at SPRC clinic at Refinery or assigned location at Fuel Terminal areas.
 - In case of severe injury/ illness and necessary to transfer Contractor's patient to hospital by either:
 - o SPRC's ambulance at Refinery; will be directly transferred to only "Bangkok Rayong Hospital" OR
 - o Ambulance from outside in case no SPRC's ambulance standby; will be directly transferred to designed hospital nearby.
 - o Contractor's transportation in case no SPRC's ambulance standby; will be directly transferred to any hospital depending on Contractor's benefit policy and regulation.
- Notes:** SPRC reserves right to use SPRC's ambulance based on final decision by SPRC's doctor/ nurse.
- Costs involved in medical attention, treatment, medication and hospitalization as well as other related expenditure shall be for the Contractor's account.

4.3 Medical record

- Each contractor's medical records shall be preserved and maintained for at least the duration of employment plus 30 years. (Apply for contractor company which SPRC provided medical examination only)
- The test result of medical examination will be kept at its own company

4.4 Hazardous Material Management

- Contractors are requested to maintain list of chemicals used on site. The list included quantity of chemicals, stored location, and it SDS.
- Chemicals or paint shall be contained in containers properly sealed and stored to prevent leaks or spills.
- Contractors will ensure that their concerned workers are trained on chemical handling and hazards prevention.
- Contractor requires prior approval before bringing any Non-SPRC approved chemicals on site.

4.5 Hazard Warnings and Labels

Contractor shall ensure that all containers used by its employees are properly labeled at least with Thai language with the following information:

- Product name
- Hazardous substances name
- Pictograms
- Signal words
- Hazard statements
- Precautionary statements

4.6 Worker Monitoring (fit for work)

4.6.1 The following works shall receive a fit for work test from SPRC's clinic before commencing works in Refinery area:

- Working at height level (working on scaffolding with yellow or red tag and required using full body safety harness).
- Confined space work: Those who work in confined space as defined by SPRC and Thai law shall be trained before attending the fit for work test. Sticker will be given to those who are verified as fit to work in confined space by medical staff (nurse or doctor)
- Fit test for respirators.

Remark: Supervisor of contractor and SPRC sponsor shall notice medical staff in advance.

4.6.2 Contractors is responsible for developing and implementing a fitness for duty

Contractor shall develop and implement a fitness for duty plan that specifies what positions and roles are required to have a medical examination due to job sensitivity or physical demand (e.g. crane operators, truck drivers, emergency responders, etc.), and the scenarios where medical examination are needed during the Work (e.g., pre-placement in role, return to work, job transfer, when in need to assess someone's physical, physiological, or emotional competency to do the job safely, etc.).

4.6.3 Contractors Supervisors are responsible for monitoring the condition of workers

Contractors shall ensure that all foreigner workers engaged have valid medical checkup as per SPRC requirement. Contractors shall monitor the medical condition of their workers at the start of workday.

5.7 House Keeping

- It's essential that good housekeeping be maintained throughout the workplace and relevant facilities.
- Spillage of oil or chemicals must be cleaned up immediately to prevent hazards from fire, slippery surfaces, etc.
- Any material being drained into sewers required notification to Effluent Treatment Plant operating staff.
- All ditches, holes, excavations, overhead work, etc., shall be properly barricaded and where necessary, provided with warning lights.

5 ENVIRONMENT

5.1 Air Emission Control

Contractors shall minimize fugitive air emissions from their activities by:

- Periodic water spraying of bare surfaces
- Proper maintenance of road surfaces
- Regular maintenance of equipment and vehicles to maintain the quality of exhaust gases.
- Proper ventilation of enclosed areas.

5.2 Waste Material

- Contractor shall properly segregate, store and remove waste materials before leaving the areas. Dumping at sea or burning is strictly prohibited.
- Waste material shall be disposed of by authorized facilities.

5.3 Noise Control

- Contractor shall ensure the noise levels generated during working do not exceed the levels specified by the Thailand Labor Department for a safe working environment.

5.4 Groundwater and Soil Protection

- SPRC requires contractors to complete the work without the site being contaminated by chemicals or other substances as a result of contractor's activities.
- Chemicals and Hydrocarbons shall not be drained or spilled on site. In case of spill and/or leak, contractor shall notify SPRC sponsor immediately.

5.5 Environmental Protection Plan

- Contractor shall provide the details of their Environmental Protection Plan. This plan shall at minimum, identify chemicals to be used during the Works, as well as how these chemicals will be stored and transferred.
- Any chemicals/equipment shall be inspected by SPRC authorized personnel before use.
- Any activities can cause nuisance i.e. noise, smell, dust to community, contractor shall plan to minimize.

5.6 Close Out Inspection

- The inspection by SPRC at conclusion of contractor's activities will not relieve contractor of contractor's obligation to remedy contamination caused by contractor, even if such contamination is only identified after contractor has left the site.
- If contamination caused by contractor is found after contractor has departed the site, contractor will be responsible for the costs of remedying the contamination.

			EHSS Plan for Event Project		
Prepared by: Sarawut Saseesao		Number: EHS-WI-QS-0003			
Approved by: Pongkorn Chochuwong		Revision: 2.			
This document must be printed and used "In Hand"					
Low		Medium		High	

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Purpose

The purpose of the Environmental, Health, Safety and Security (EHSS) plan is to outline requirements and procedures to be followed by SPRC Staff and Contractor associated with the Event Project. The main objectives of this plan are to ensure that:

- EHS organization, performance target/goals, roles and responsibility have been established and communicated to all levels of staff and contractors associated with the Event Project.
- Event Project is planned, executed, constructed, commissioned, and operated to an adequate EHS legislative requirements and standard of environmental, health and safety.
- Ensure safe work practice and safe, health and environmental friendly working conditions toward Incident and Injury Free (IIF) journey.

This document is classified as information use/adherence category (IU), the review frequency is 5 years cycle. Next review is in year 2030.

System Information

Summary The scope of EHSS plan covers maintenance, construction, and fabrication activities held in SPRC premises and reporting boundary. The activities are on event execution period and related projects schedule time frame.

Roles and Responsibility **VP – Event Project**
The VP- Event Manager has the overall and ultimate responsibility for all accountability EHS performance and compliance during the Event planning, procurement, execution, construction & commissioning phases.

T&I Manager

- The T&I manager has the overall and ultimate for all accountability EHS related matters in the Event scope.
- Accountable for safe and incident-free execution of T&I activities
- Resolve daily site safety concerns.
- Accountable for preventing effect to environmental and community during T&I activities

Technical and Engineering Manager

- The Technical and Engineering Manager has the overall and ultimate for all accountability EHS related matters Project activities scope during project planning and execution.
- Accountable for safe and incident-free execution of Projects
- Resolve daily site safety concerns.
- Accountable for preventing effect to environmental and community during project activities

Construction Managers

The T&I Execution and Project Construction Manager will be responsible and accountable, ensuring that all personnel working in his area of control will conduct their work in a safe manner and that all EHS risk mitigation/control measures have been adopted. If any incident or near miss occurred in the responsible area, T&I Manager/ Construction Manager shall ensure that the incident investigation is conducted as soon as possible.

T&I Operations Coordinator

- Has the overall and ultimate for all accountability EHS related matters in the Event scope.
- Accountable for safe and incident-free T&I activities
- Resolve daily site safety concerns.
- Accountable for preventing effect to environmental and community during T&I activities

EHS Manager

The Event EHS Manager will be the focal point for all EHS related activities in the area during the Event. These activities will include but not be limited to the following:

- Establish and Deploy IIF leadership to support the Event Project.
- Develop and execute tactical plan of EHS & IIF to ensure workforce work safely and fully comply with EHS standard, rules & regulations and all applicable EHS legal and other requirements.
- Support Environment Impact Assessment report development and execute environmental mitigation plan for which belongs to scope of the Event Project.
- Being champion to integrate SD (Sustainability Development) of SPRC into the Event Project.
- Be the focal point of incident investigation in the Event Project.
- Ownership of collections and report the EHS statistics, performance target/goals, EHS milestone during the Event Project.

Health and Safety Specialist / Health and Safety Officer

- The Area safety engineer will be the focal point for all EHS related activities in the assigned area. These will include but not limited to the following.
- Coordinate Safety Meetings and Audits.
- Coordinate with company and Contractor EHS personnel.
- Coordinate with Emergency Response Group for Emergency response, emergency exercises and rescue plans.
- Carry out Safe Act Audits (SAA).
- Monitor/audit gas testing activities. (AGT Audits)
- Monitor/audit environmental impact of Event activities.
- Monitor Housekeeping.
- Report any perceived problems directly to the T&I Execution or Construction manager according to specific area and follow-up any remedial action taken to ensure that it is effective.
- Attend EHS incident happened in the assigned area by coordinating with Incident Coordinator.

Environmental Specialist

The Environmental Specialist will be responsible for overall Environmental related activities in the area during the Event. These activities will include but not be limited to the following:

- Coordinate with related parties to conduct environmental mitigation for T&I activity for all environmental aspects which includes but not limited to waste, air pollution and VOCs, wastewater, noise, soil and groundwater contamination.
- Develop and implement waste management plans to handle hazardous and non-hazardous waste generated during the Event, including segregation, recycling, treatment, and disposal.
- Develop environmental monitoring plan, Implement and audits to ensure that all activities during the Event comply with relevant environmental regulations, permits, and standards.
- Oversee the management of wastewater generated during the Event, ensuring proper treatment and disposal according to regulatory requirements.
- Prepare and submit regulatory reports to relevant authorities documenting environmental performance during the Event, including emissions data, waste generation, and compliance status

Site EHS Officer

The Site EHS Officer will be responsible for but not limited to the following activities:

- EHS performance review daily.
- Conduct Daily EHS Meeting.
- Coordinate all T&I related EHS Activities.
- Perform safety audits in their assigned areas.
- Maintain a high standard of housekeeping and waste disposal control.
- Attend and provide advice on EHS Incident Investigation Team
- T&I EHS coordination team will comprise of the Event EHS manager and T&I area Health and Safety Specialist and Contractors Safety Officers.

Incident Coordinator

- Coordinate and facilitate the investigation process with the assigned people to do incident investigation.
- Investigate the incident and follow up whether corrective and preventive action was taken within an agreed time frame.
- Distribute corrective and preventive actions summary and incident report to T&I execution managers/Project Construction Manager, Operations Focal Point, Shift Supervisor, Event EHS Manager, Area Health and Safety Specialist and other concerned parties.

Contractor - Management

Contractor Management has the overall responsibility for their workforce and their sub-contractor's workforce on all environmental, health and safety related matters during the project execution and T&I period.

Contractor - Supervisor/ Foreman

All contractors Supervisors/Foremen are responsible that their workforce will comply with SPRC-EHS Policies, Procedures and Guidelines. Their activities will include but not be limited to the following:

- Know and understand SPRC's EHS Policies, Procedures, Requirements and guidelines.
- Ensure that all personnel reporting to them are working in a safe and professional manner.

- Ensure that environmental mitigation is proper prepared for activity that have environmental impact, ensure that mitigation is fully implemented and follow up for the result.
- Ensure that housekeeping is maintained at a high level and that waste disposal is executed as described in the waste disposal procedure.
- Participate/ Perform regular audits on contractor safety and environmental performance.
- Coordinate and administer the follow-up of safety and environmental action items as raised from the audits.
- Bring an injured person or suspect that to be injured from the incident to the SPRC clinic immediately after the incident happened.

Contractor - Safety Officer / Environmental Representative

The Contractor Safety Officers / Contractor's environmental representative will be responsible for but not limited to the following activities:

- Familiarize with all relevant SPRC's EHS Policies and Procedures.
- Coordinate EHS Matters to comply with SPRC-EHS Requirements.
- Ensure that all Contractor employees have followed the required safety EHS training.
- Ensure that all specialized safety training has been provided to staff where required.
- Support all T&I related EHS activities.
- Perform Safe Act Audit and report to the Event EHS Coordinator and T&I Area Health and Safety Specialist daily.
- Maintain Contractors Safety Statistics and assist in the preparation of the Incident Investigation Report(s) as and when required.
- Daily conducts the Toolbox talk prior to the start of the work and report topic and attendance list to the Area Health and Safety Specialist .
- Coordinate with T&I Area Safety Engineers on the safety meetings and audits to be performed.
- Ensure that housekeeping in working area is maintained throughout the T&I period.

The Individual

- Everybody is responsible for his/her own safety and is expected to co-operate and work safely. All personnel are accountable to report safe act audit and suggesting improved safe working methods and practices as well as to maintain a safe and environmentally friendly working environment. They are responsible for adhering to the prescribed precautions and designated personal protective equipment as stipulated in the Permit to Work. Everybody is responsible for performing good work practice to reduce affect to the environment and community.

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**Prerequisites**

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Detailed Activities

Who	Step	Action
1. EHSS Objective and Target		
	1.1	Lagging Indicators Workforce Health and Safety: • No one get hurt • No work-related illness. • No motor vehicle crash (Catastrophic and Major) Process Safety and Reliability: • No Loss of Containment (Tier 1, Tier 2) • No recordable fire case Environment: No Recordable Spill Stakeholder: No recordable validate complaint Security: No Medium and High threats of security-related incident
	1.2	Leading Indicator • Incident and near miss raise-up on time within 48 hours • 100% close out of action within target date from incident or near miss • 100% close out of action within target date from SAA • 100% close out of action within target date from SWP • No positive result from drug or alcohol testing
END OF TASK		

Who	Step	Action
2. EHSS and Competency Training		
	2.1	Contractor shall ensure that thier personel are trained and competent following a requirement to carry out the work for the Event Project.

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Who	Step	Action									
	2.2	Contractors shall have a dedicated Training Coordinator responsible for coordinating and managing the EHS and Competency training, responsibilities of this role shall include: • Managing training registration and ensure that the required document are prepared and valid for a training. • Coordinate with SPRC's Training Administor and support on any training issue. • Ensure that their personel attend the training as registred.									
	2.3	Contractors shall delegate EHS Trainers to train SPRC's required EHS training, EHS authorized trainers shall be allowed to conduct the Event Projetc EHS Training.									
	2.4	Some competency trainings shall be provided by contractor. This also covers specialized contractors such as Working in Innert atmosphere, HPWJ skill records or certificate must be submitted as required.									
	2.5	EHS mandatory training ALL personnel who work on SPRC's premises shall be trained in the following courses. <table><tr><th>No.</th><th>Course title</th><th>Duration (hours)</th></tr><tr><td>1</td><td>EHS Induction</td><td>3.5</td></tr><tr><td>2</td><td>IIF Orientation</td><td>3.5</td></tr></table>	No.	Course title	Duration (hours)	1	EHS Induction	3.5	2	IIF Orientation	3.5
No.	Course title	Duration (hours)									
1	EHS Induction	3.5									
2	IIF Orientation	3.5									

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Who	Step	Action																																																																		
	2.6	Competency training Contractors may be required to complete additional competency trainings to prevent incident, competency training courses is require following: <table><tr><th>No.</th><th>Course Title</th><th>Duration (hours)</th></tr><tr><td>1</td><td>e-Permit to Work for Permit Requester</td><td>8</td></tr><tr><td>2</td><td>e-Permit to Work for Permit Holder</td><td>3.5</td></tr><tr><td>3</td><td>IIF & HOP Supervisor Skill</td><td>8</td></tr><tr><td>4</td><td>Job Safety Analysis (JSA)</td><td>3.5</td></tr><tr><td>5</td><td>Confined Space Entry</td><td>3.5</td></tr><tr><td>6</td><td>Fire watcher</td><td>3.5</td></tr><tr><td>7</td><td>Hole watcher</td><td>3.5</td></tr><tr><td>8</td><td>SCBA/Air Line User</td><td>3.5</td></tr><tr><td>9</td><td>Defensive Driving</td><td>3.5</td></tr><tr><td>10</td><td>Hazardous Material (Hg, Benzene, H₂S) Awareness</td><td>3.5</td></tr><tr><td>11</td><td>Jacob Ladder User</td><td>3.5</td></tr><tr><td>12</td><td>Flange tightening</td><td>3.5</td></tr><tr><td>13</td><td>Work at height</td><td>3.5</td></tr><tr><td>14</td><td>Crane operation, Lifting and rigging</td><td>3.5</td></tr><tr><td>15</td><td>Forklift Operation</td><td>3.5</td></tr><tr><td>16</td><td>Vacuum truck Operation</td><td>3.5</td></tr><tr><td>17</td><td>Basic Scaffolding in SPRC</td><td>3.5</td></tr><tr><td>18</td><td>Scaffolding Competency</td><td>SPRC verify certificate</td></tr><tr><td>19</td><td>High Pressure water jetting</td><td>SPRC verify certificate</td></tr><tr><td>20</td><td>Tube bundle pulling</td><td>SPRC verify certificate</td></tr><tr><td>21</td><td>Catalyst handling</td><td>SPRC verify certificate</td></tr></table>	No.	Course Title	Duration (hours)	1	e-Permit to Work for Permit Requester	8	2	e-Permit to Work for Permit Holder	3.5	3	IIF & HOP Supervisor Skill	8	4	Job Safety Analysis (JSA)	3.5	5	Confined Space Entry	3.5	6	Fire watcher	3.5	7	Hole watcher	3.5	8	SCBA/Air Line User	3.5	9	Defensive Driving	3.5	10	Hazardous Material (Hg, Benzene, H ₂ S) Awareness	3.5	11	Jacob Ladder User	3.5	12	Flange tightening	3.5	13	Work at height	3.5	14	Crane operation, Lifting and rigging	3.5	15	Forklift Operation	3.5	16	Vacuum truck Operation	3.5	17	Basic Scaffolding in SPRC	3.5	18	Scaffolding Competency	SPRC verify certificate	19	High Pressure water jetting	SPRC verify certificate	20	Tube bundle pulling	SPRC verify certificate	21	Catalyst handling	SPRC verify certificate
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Who	Step	Action
	2.7	Confined Space Entry (CSE) training - All Confined Space Entry related contractors shall be trained and certified according to laws and regulatory requirements by the following course and position: - Confined Space Entry Permit Approver (SPRC personnel only) - Confined Space Entry Supervisor - Confined Space Entrant - Confined Space Rescuer - For training registration, Contractor's training coordinator shall submit Confined Space training certificate as according to laws and regulatory requirements and Confined Space Entry Medical Certificate (fit for confined space work) conducted by Occupational Physician valid within the past 1 month from certified date. - The contractor company shall ensure that only competent persons, who are fit and capable of doing the Confined Space Entry work are assigned on the Event Project. - Contractor companies must ensure their personnel's competency before sending personnel to work for SPRC. - Contractors working at SPRC's premises may be randomly checked for CSE related knowledge by SPRC's personnel.
		NOTE - For training center in Thailand, Training Institute must be registered and certified by Department of Labor Protection and Welfare (DLPW) - For international training center, contractors are required to submit the course syllabus including training topic and training hour to SPRC's Health and Safety Specialist for review and approval.
	2.8	Upon successful completion of the Competency Assessment for specific training course, the individual will receive a certified stamp on their IIF Passport or a record in the Digital IIF Passport (Refer. EHS-WI-QS-2035 IIF Passport Process).
		WARNING SPRC may refuse any contractor's personnel if they do not comply with EHS requirements (i.e., through lack of skill or insufficient training or experience).
	2.9	For Vendor or Specialist to be mobilized near the T&I date or during T&I execution period are required to attend the EHS trainings required based on activity to be performed as detailed in Table 1 : Vendor Specialist training matrix

Who	Step	Action			
Table 1 :Training Matrix for Vendor/Specialist					
Work Duration	Work Detail	EHS Induction	IIF Orientation	Work at height	Confined Space Entry
Less than a month	Technical Advisory (no physical work)	Short Brief	Short Brief	Not require	Not require
Less than a month	Technical Advisory (General physical work)	Short Brief	Short Brief	Not require	Not require
Less than a month	Technical Advisory and Work at height	Short Brief	Short Brief	Full course	Not require
Less than a month	Technical Advisory and Confined Space Entry	Short Brief	Short Brief	Not require	Full course
More than a month	Technical Advisory (no physical work)	Full course	Full course	Not require	Not require
More than a month	Technical Advisory (General physical work)	Full course	Full course	Not require	Not require
More than a month	Technical Advisory and Work at height	Full course	Full course	Full course	Not require
More than a month	Technical Advisory and Confined Space Entry	Full course	Full course	Not require	Full course

END OF TASK

Who	Step	Action
3. EHSS Communication and Reporting		
3.1 EHS Team meeting		
	3.1.1	EHS Team Meeting will be organized and arranged by the Event Project EHS team with Contractor's Safety representative every day during T&I execution period the meeting will be held 30 min at 06:30-07:00 AM and 06:30-07:00 PM before starting the shift to communicate EHS highlight issue, Near miss etc. This meeting is intended to cascade EHS information to each contractor company and all levels of the workforce.
3.2 Tool box talk		
	3.2.1	Toolbox talks shall be conducted by Contractors before start working of each shift, a record should be kept for auditing purposes.
	3.2.2	Toolbox talks may include but not be limited to the following: - Finding from Safe Work Practices Audit or Safe Act Audit from previous shift - Briefing a hazard/risk and mitigation for the activity to be conducted - Special/highlight EHS issue given from EHS team meeting
3.3 Contractor EHS reporting		
	3.3.1	Contractor EHS reporting Contractor shall report EHS related issued using the form provide by SPRC included but not be limited to the following: - Number of manpower and manhour - Name list of Safety Officer onsite - Number of Drug and Alcohol self-testing conducted - Number of SAA and SWP Self audit - Number of Incident and Nearmiss - Other Relevant Environment, Health and Safety issues
END OF TASK		

Who	Step	Action
4. EHSS Inspection & Audit		
4.1 Safe Act Audit (SAA)		
	4.1.1	Safe Act Audit (SAA) is a tool for reinforce safe behavior to achieve an Incident and Injury Free (IIF) working environment with good employee and contractor morale.

Who	Step	Action												
	4.1.2	Contractors and subcontractors are required to participate in the Safe Act Audit (SAA) while working at the SPRC facility.												
	4.1.3	Safe Act Audit (SAA) frequency is based on phase of the Event Project as detailed in table below <table><tr><th>Phase</th><th>Frequency</th><th>By whom</th></tr><tr><td>Planning</td><td>1 time per Month</td><td> - EP Leader - EP member </td></tr><tr><td>Pre-T&I</td><td>1 time per Week</td><td> - SPRC's Management - Contractor's Management - Job Owner - SPRC's EHS Representative - Contractor's EHS representative </td></tr><tr><td>Execution</td><td>2 time per Day Day Shift: 09:00 – 10:00 AM Night Shift: 09:00 – 10:00 PM</td><td> - SPRC's Management - Contractor's Management - Job Owner - SPRC's EHS Representative - Contractor's EHS representative </td></tr></table>	Phase	Frequency	By whom	Planning	1 time per Month	- EP Leader - EP member	Pre-T&I	1 time per Week	- SPRC's Management - Contractor's Management - Job Owner - SPRC's EHS Representative - Contractor's EHS representative	Execution	2 time per Day Day Shift: 09:00 – 10:00 AM Night Shift: 09:00 – 10:00 PM	- SPRC's Management - Contractor's Management - Job Owner - SPRC's EHS Representative - Contractor's EHS representative
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	4.1.4	Safe Act Audits shall be reported by fill the observation finding in SAA E-Form which there will have the electronic workflow send the report to assigned area focal point and then record in the database												
	4.1.5	All corrective actions/preventive actions from the Safe Act Audit shall be recorded and followed up by line supervisor or assigned area focal point												
	4.1.6	Reference : EHS-WI-QS-2029 Safe Act Audit												
4.2 Safe Work Practice Audit (SWP)														
	4.2.1	Safe Work Practice Audit (SWP) is a process to verify that SPRC and Contractor is in compliance with procedure relating Safe Work Practice managing e.g. Permit To Work , Isolation of Equipment, Confined Space Entry, Work at Height and other process.												
	4.2.2	Safe Work Practice Audit Checklist EHS-FO-QS-2041 or Electronic form is used for the audit.												

Who	Step	Action												
	4.2.3	Safe Work Practice Audit frequency is based on phase of IMPACT the Event Project as detailed in table below <table border="1"> <thead> <tr> <th>Phase</th><th>Frequency</th><th>By whom</th></tr> </thead> <tbody> <tr> <td>Planning</td><td>1 time per Month</td><td>• SPRC's EHS Representative</td></tr> <tr> <td>Pre-T&I</td><td>1 time per Week</td><td>• SPRC's EHS Representative • Contractor's EHS representative</td></tr> <tr> <td>Execution</td><td>2 time per Day Day Shift: 02:00 – 03:00 PM Night Shift: 02:00 – 03:00 AM</td><td>• SPRC's EHS Representative • Contractor's EHS representative</td></tr> </tbody> </table>	Phase	Frequency	By whom	Planning	1 time per Month	• SPRC's EHS Representative	Pre-T&I	1 time per Week	• SPRC's EHS Representative • Contractor's EHS representative	Execution	2 time per Day Day Shift: 02:00 – 03:00 PM Night Shift: 02:00 – 03:00 AM	• SPRC's EHS Representative • Contractor's EHS representative
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	4.2.4	Safe Work Practice Audit shall be reported by fill the observation finding in SWP E-Form which record in the database.												
	4.2.5	All corrective actions/preventive actions from the Safe Work Practice Audit shall be recorded and followed up by line supervisor or assigned area focal point.												
4.3 CHESM Work-In-Progress Field Inspection														
	4.3.1	CHESM Work-In-Progress Field Inspection is required for a medium or high-risk Contractor has been awarded												
	4.3.2	The numbers of CHESM Work-In-Progress Field Inspections will be conducted during contracted work are as follow • High risk contractor, 1 times per week • Medium risk contractor, 1 times per 2 week												
	4.3.3	EHS-FO-QS-0004 CHESM Work-In-Progress Field Inspection Form or Electronic Form is used for the audit.												
	4.3.4	Reference : EHS-WI-QS-0006 CHESM Work-in-Progress Work Instruction												
END OF TASK														

Who	Step	Action
5. Environmental Protection		
		Once the shutdown and startup schedule are confirmed, the Environmental Specialist shall be a focal point and coordinate with related parties to develop Turnaround plan to comply with following regulations; • The Notification of Ministry of Industry : Controlling the use of flare B.E. 2565 (2022), • The Notification of Ministry of Industry : Controlling the emission of volatile organic compounds from maintenance activity B.E. 2565 (2022) and • Notification of the Industrial Estate Authority of Thailand No. 030/B.E. 2566 (2023) to notify government in advance 15 30 days before turnaround execution date.
5.1 Air Emission and VOCs Reduction		
		• Mitigation to control Air and VOCs emission along with other environmental aspects shall be considered in those top priority. • The EHS-WI-QS-1002: Air quality & noise monitoring must be adhered to during shutdown, maintenance and start-up period for event 2026.
	5.1.1	Air Emissions and VOCs control from maintenance activity
	5.1.1.1	Operation, planner and maintenance team shall prepare environmental mitigation plan, and this plan must be agreed by related party to prevent effect from air pollution and VOCs and ensure mitigation are fully implemented.
	5.1.1.2	During plant/unit shutdown and subsequent startup, Operations shall as far as practicable and reasonable, empty oil and condensate from all vessels and associated piping of its contents to PRO to the slop tank in close system and no draining oil/chemical to the PCS sewer.
	5.1.1.3	Operations shall consider to apply chemical cleaning for significant vessels or equipment contaminated VOC, H2S, mercaptan, etc.
	5.1.1.4	Operations shall consider apply vapor/odor control system at process PCS sewer battery limit sumps and ETP Diversion Boxes.
	5.1.1.5	Operation, Planner and Maintenance team must control and monitor VOCs emission at source under SPRC criteria to avoid effect at company fence line and community which is also under ambient control criteria. VOCs is not allow to release directly to ATM over SPRC criteria.
	5.1.2	Air Emissions and VOCs control from flare source
	5.1.2.1	Operation shall prepare flare load management during shutdown and start up.
	5.1.2.2	Operation shall control and monitor flare during usage of shutdown and start-up flaring with no black smoke

Who	Step	Action
5.2 Waste Management		
	5.2.1	Solid Waste
	5.2.1.1	The EHS-WI-QS-1006: Solid Waste Handling and Disposal Guideline Work Instruction must be adhered to when executing a Turnaround unless specifically addressed in this document.
	5.2.1.2	Environmental Specialist shall update the EHS-OT-QS-1004: Hazardous and Non-Hazardous Waste List including the types of waste, permit name, waste code, hazardous code, and disposal method and expected quantities (in mass & volume) to determine appropriate waste storage area and containment.
	5.2.1.3	Environmental Specialist shall prepare waste permit to be approved in advance before execution phase and be ready to move waste out of site as per schedule.
	5.2.1.4	Contractors shall brief their workers regularly (recommended during toolbox talks) on the waste segregation program and disposal in SPRC and follow up by monitoring the disposal of waste into the correct bins and containers by their workers.
	5.2.1.5	Contractor must ensure good condition containment including cover and lid to prevent spill and smell, prepare temporary bund wall (if required) and ready to be moved.
	5.2.1.6	Contractor must follow SPRC's Mercury contaminated material handling procedure and criteria.
	5.2.1.7	Individual is responsible for waste segregation for proper handling method and to prevent waste that will be rejected by waste processor.
		WARNING SPRC has right to reject waste from contractor if they are not proper managed that include but not limited to improper container, incorrect waste segregation, incorrect label or placing at wrong designed area and also has right to request contractor to improve or correct as per issue.
	5.2.2	Wastewater
	5.2.2.1	Environmental Specialist together with Operation shall apply eco-friendly cleaning chemical and minimize wastewater volume as much as possible.
	5.2.2.2	Environmental Specialist together with Operation estimate volume of wastewater from chemical cleaning process and develop logistic plan then early engage with DIW's approved waste collector and transporter for preparing wastewater collector truck to prevent interruption of chemical cleaning process.

Who	Step	Action
	5.2.2.3	Wastewater collected from chemical cleaning process will be sent to DIW's approved waste processor or internal ETP for treatment.
	5.2.2.4	Operations shall coordinate with chemicals cleaning vendor to provide sufficient wastewater storage and closely monitor and ensure wastewater discharged from chemical cleaning process shall not exceed capacity of wastewater containment.
	5.2.3	Domestic Waste
	5.2.3.1	Environmental Specialist together with facility services and T&I facility planner enhance waste management practices by prioritizing eco-friendly packaging and minimizing single-use plastic packaging and utensils.
	5.2.3.2	Environmental Specialist together with facility services and T&I facility planner establishes domestic waste segregation systems and ensure sustainable disposal practices.
	5.2.3.3	Environmental Specialist estimates domestic waste volume based on maximum number of contractors and develop a logistical plan in coordination with the Map Ta Phut Municipality for efficient transportation and disposal.
	5.2.3.4	T&I Facility Planner together with Environmental Specialist shall set up a designated domestic waste collection area where contractors can dispose of their waste and ensure these collection points are easily accessible and well-monitored.
	5.2.3.5	Environmental Specialist shall verify that the facility planner has prepared proper and adequate amount of container for domestic waste.
	5.2.3.6	A food waste digester should be considered to use during the turnaround period to help reduce the volume of waste sent to landfills. This helps in minimizing the environmental impact of the turnaround and promotes sustainable waste management practices.
	5.2.3.7	Environment Improving Team (EIT) shall encourage contractors on waste management improving program for effective waste management program.
	5.2.3.8	Everyone shall support "No single-use plastic program", take responsible for waste minimization and proper waste segregation to maximize recycling and reduce waste dispose to land fill.
	5.2.4	Sanitary Waste
	5.2.4.1	T&I Facility Planner is responsible for sanitary waste disposal which will be done both on-site by EP Sanitary Treatment system and off-site by Map Ta Phut Municipality's approved sanitary waste collector.

Who	Step	Action
	5.2.4.2	T&I Facility Planner shall schedule regular sanitary waste collection and disposal services and ensure waste collection should avoid not the same period of toolbox talk and lunch time.
	5.2.5	Waste Storage Area
	5.2.5.1	The Environmental Specialist together with Operation, Planner and Contractor representative shall identify and agree on the location for temporary storage area of empty bins/containers for the identified wastes.
	5.2.5.2	Temporary storage bins / containers area are preferred to be placed close to each source of generation if the quantity generated is likely to be substantial otherwise it will be placed at a common location(s) accessible to all potential users.
	5.2.5.3	Temporary location(s) selected for the placement of empty bins/containers shall be evaluated based on the safety or risk posed to the workers working in the vicinity.
	5.2.5.4	Main designated areas for collect waste from temporary storage area are as follow : No.1 Central Waste Area (Waste contained in metal drum) designed for Oily Sludge (Drum), Mellapack, Coke and Activate Carbon, Oily Sand, Wooden pallet, Metal scrap, Rubber hose, Air filter, RO membrane. No.2 Waste Area (Waste Contained in Roll off) designed for Industrial oily debris, Refractory, Empty Contaminated Container, Insulation No.3 Designed for Hydrotreating Spent Catalyst (drum) No.4 Designed for Unused equipment No. 5 Mercury Waste lay down (cleaning bay area) designed for tray, pipe, tube bundle. 

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Who	Step	Action
	5.2.6	Waste Tracking and Inventory System
	5.2.6.1	Job owner or assigned contractor who is responsible to the activity that generate waste shall create internal "Electronic Waste Disposal Permit (WDP)" via provided channel by SPRC
	5.2.6.2	The maintenance and contractors must label waste container following SPRC's criteria 
	5.2.7	DIW's E-fully manifest Tracking
		WARNING Contractor must not move waste out of SPRC without SPRC approval both hazardous and non-hazardous waste.
	5.2.7.1	Contractor must cooperate with SPRC to comply with DIW's waste manifest system.
	5.2.8	Vacuum Truck Service (For internal transportation of wastewater to ETP)
	5.2.8.1	Job owner or assigned contractor notify the Maintenance Support Services Team, one day before the work starts.
	5.2.8.2	Job owner or assigned contractor provide the basic information of the material to be disposed.
	5.2.8.3	Job owner or assigned contractor classify the material and indicate the place for disposal as well as to ensure that ETP staff is available 24 hours to control the discharge of vacuum trucks.
	5.2.8.4	Contractor must control the discharge of vacuum trucks to be sure that all vacuum trucks are emptied in the proper place.
	5.2.8.5	Contractor can fill the truck only after a request notified and shall empty the truck only after Operations off-sites Coordinator indicates the proper place for disposal.

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Who	Step	Action
	5.3	Spill Prevention Plan
	5.3.1	Contractor for all works pertaining to blinding/de-blinding, vessel cleaning and heat exchanger cleaning shall ensure that proper and adequate containers and adsorbent are provided prior to starting the work to prevent any spillage of residual oil to the ground (paved or unpaved)
	5.3.2	Contractor must clean up any spillage of residual oil or chemical shall immediately with sorbent sheet/pad before cleaning with water, remove contaminated gravel and soil to dispose as hazardous waste and ensure the working environment is clean and free from potential slippage, fire hazard or contamination to soil.
	5.3.3	Contractors must also ensure that their workers are adequately briefed, reminded, and monitored not to cause oil to be drained or washed to the perimeter storm water drain, which directly discharge to the public.
	5.3.4	Operation shall clean/clear existing PRO and/ or PCS receiving drainage system before shutdown activity.
	5.3.5	Operation shall consider draining oil into PRO in close system as first priority with appropriated flow rate to prevent overflow to PCS.
	5.3.6	Operation shall watch draining activity all the time (Do not leave area).
	5.3.7	Contractor must prepare storage containers and contaminated equipment are not allowed to directly put on ground/gravel, required 2nd containment.
	5.3.8	If contractor clean up spill with water to PCS Sewer, must inform job owner and then notify immediately notify PD Shift Supervisor.
	5.3.9	Contractor shall inspect containers to be leak proof before using.
	5.4	Environment monitoring
	5.4.1	Environmental Specialist develops Environmental Monitoring Plan including fence line VOC and noise monitoring, community ambient air and noise quality to ensure compliance with air quality regulations.
	5.4.2	EHS and CA Team conduct odor and noise surveillance onsite and in community.
	5.4.3	Environmental Specialist shall consider increasing frequency for 3rd party to monitor effluent quality from ETP during T&I activity.
	5.5	Water effluent management
	5.5.1	Environmental specialists with consulting from PD shall update wastewater route line during T&I execution period to ensure wastewater drain to internal gutter is properly treated at ETP and water effluent that discharge from SPRC outfall is meet EIA criteria.

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Who	Step	Action
	5.5.2	Job owner shall ensure that there is no wastewater from activity discharge out off SPRC before treating or quality is over criteria
	5.6	Noise Management
	5.6.1	Job owner shall ensure mitigation to reduce noise at source and not let noise from activity effect noise level at refinery's fence line to exceed regulation and to prevent complain from neighbor company and community.
		END OF TASK

Who	Step	Action
	6.	Occupational Health
	6.1	Health Hazard Identification and Risk Assessment
EHS	6.1.1	Health and Safety Specialist/Officer shall identify the chemical, physical agents, and to prevent or minimize exposures and plan for conducting Occupational hygiene monitoring, exposure monitoring and Health surveillance program.
EHS	6.1.2	The results from the health risk assessments, including the actions arising, should be appropriately communicated to Event staff and contractors to ensure an effective understanding of the recommended control strategies incorporate in RA/JSA to prevent occupational health issues.
	6.2	Occupational Hygiene Monitoring
EHS	6.2.1	The Health and Safety Specialist shall plan Occupational hygiene monitoring during the Event execution for identified health risk such as mercury, Benzene, Dust, Noise etc.
EHS	6.2.2	After unit shutdown steaming is completed, the Health and Safety Specialist should survey the mercury level at process area. If there is no concern of mercury vapor in the process area, Health and Safety Specialist should notify the relevant parties in Event Project to lift out respiratory protection for areas where the mercury concentration is below Permissible Exposure Level.
	6.3	Mercury and Benzene Surveillance Program
TE	6.3.1	All contractor company related to Confined Space Entry activities in the equipment that identified medium-high risk to expose to Mercury shall submit the urine testing results which valid no longer than 30 days once the results issued and contractor need to declare themselves for non-mercury exposure at least 7 days before starting work.

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Who	Step	Action
	6.3.2	Contractor authorized personnel are required to submit the Urine Testing Result Form, attaching with copies of testing results, and official contractor company stamp to SPRC Clinic (Clinic@sprc.co.th) within 7 days in advance before mobilization to work location.
	6.3.3	Pre-test sample cost incurred in preparing or obtaining samples for testing result is under contractor responsibility.
	6.3.4	Post-test samples cost are under SPRC responsibility by Occupational Health Nurse, but contractors need to ensure that their personnel completing the post urine test before leaving the SPRC premises.
6.4 Respiratory Protection		
	6.4.1	Annual Respiratory fit test is required for all respirator users.
CONT	6.4.2	The contractor company is responsible for conduct respiratory fit test for their workers who require wearing respirator based on the contract agreement.
6.5 Fitness for Duty		
	6.5.1	Fit test for Confined Space Entry
	6.5.1.1	All confined space entry related contractors are required to have medical checkups certificate conducted by Occupational Physician within the past 1 month.
	6.5.1.2	All confined space entry related workers are required to attend fit test, a certify sticker will be given to those who verified as fit to work in confined space by SPRC's medical staff (nurse or doctor).
	6.5.1.3	The certification sticker will remain valid for a period of four calendar months. As a result, each certification sticker will expire at the end of April, August, and December respectively.
	6.5.1.4	Person who needs attending fit testing is required to pass a Confined Space Entry training provided by a registered institute approved by the Department of Labor Protection and Welfare (DLPW), along with SPRC-specific Confined Space training before attending the test.
CAUTION All personnel entering to confined space must not be influenced by the respiratory, heart problems or other diseases that may harmful when working in confined space which specified by medical certification specific for confined space entry.		
	6.5.2	Fit test for Working at Height

Who	Step	Action
	6.5.2.1	Person who're working at height as per the AS-WI-AS-2013: Working at height are required to attending the fit testing.
	6.5.2.2	Certify Sticker will be given to those who verified as fit to work at height by SPRC's medical staff (nurse or doctor).
	6.5.2.3	The certification sticker will remain valid for a period of four calendar months. As a result, each certification sticker will expire at the end of April, August, and December respectively.
NOTE Supervisor of contractor and SPRC sponsor shall notice medical staff in advance to reserve the time for fit testing.		
6.6 Alcohol and Drugs Test		
	6.6.1	Refer to 400-2 Alcohol & Drugs Policy
	6.6.2	SPRC medical team shall conduct random check to SPRC staff and contractors for Alcohol and Drug test without advance notice.
	6.6.3	SPRC staff and Contractors could be requested for Alcohol and Drug test after an incident.
	6.6.4	Possession or consumption of liquor and drugs is prohibited on SPRC's premises.
WARNING It is strictly forbidden to bring alcoholic drinks or illegal drugs into any SPRC premises as well as intoxicated or incapacitated by intoxicants.		
WARNING Energy drinks are not allowed to drink or bring in the SPRC premises.		
6.7 Fatigue Risk Management		
	6.7.1	Comply with Labor Protection Act B.E. 2541 regarding the maximum number of working hours per individual per week.
	6.7.2	SPRC and Contractor companies shall plan their staff working days to comply with the guideline in Table 2 : Recommended working hour
Table 2 : Recommended working hour		
Requirement	Pre-Execution period	Execution period
Maximum Consecutive Day or Night Shift worked in a work set	6 Shift per 1 Week	13 Shift per 2 Weeks
Minimum Fatigue Time-Off after a work set	36 hours	36 hours
Maximum Work hour per week	84 hours	84 hours

Who	Step	Action
	6.7.3	The dedicated team shall conduct spot checks on workers' working hours, to verify if their working hours are extended to be longer than guideline specified.
	6.7.4	Individual personnel not feeling well must inform immediate supervisor. Supervisor/Foreman is responsible for monitoring condition of workers (including workers on medical leave) and regulate the working hours of the workers in consideration of fatigue and physical stress due to long duration of Event execution period.
	6.7.5	Supervisor/Foreman is responsible for Report health related issues and illnesses of their subordinate as outlined under EHS Incident Reporting and Investigation.
	6.7.6	Access Control System may be enhanced to allow monitoring and tracking of working days/hours to identify any exceedance.
6.8 Food/Drink Sanitation and Hygiene		
EHS	6.8.1	The Health and Safety Specialist is responsible to ensure that SPRC canteen facilities, Event canteen facilities and food provider comply with requirements to provide safe and hygienic food and beverages.
EHS	6.8.2	Food or beverages is to be provided to SPRC staff during the Event are required to ensure that food is bought from approved caterers and implement measures e.g., ensuring food packs are labeled with validity period to avoid food poisoning.
PLCO	6.8.3	T&I facility planner should proper installation of temporary drinking water coolers for use at Event canteen facility, worker rest tentage.
CONT	6.8.4	Each contractor company shall prepare clean drinking water for their workers and enforce strict sanitation practices around drinking water storage and dispensing areas.
	6.8.5	Keep the areas clean and free from potential sources of contamination such as chemicals or debris.
	6.8.6	Each contractor company should have regular testing of their drinking water quality using approved methods.
	6.8.7	Health and safety specialists should random testing of the drinking water quality includes testing for bacteria, chemicals, and other contaminants.
6.9 Contractor Hazardous Material Management		
	6.9.1	Follow EHS-SP-QS-0016 : Hazard Communication Program

Who	Step	Action
	6.9.2	SPRC Contract Owner and/or Project Manager and/or planner are responsible to identify the hazardous chemical will be used by contractor during the Event, then complete a Chemical register Form and attach the SDS via E-Chemical Request Workflow in SAP.
	6.9.3	All containers that contain hazardous chemicals are require clearly labeled in Thai language as required by GHS labeling system, which includes - Product identification - Signal words - Pictograms - Hazard statements - Precautionary statement - Supplier identification.
WARNING Drinking bottle/containers are not to be used as hazardous materials containers to prevent accidental ingestion of chemicals and contamination.		
6.10 Work-related injury/illness cases management		
	6.10.1	Injury initial Report Nurse on duty should send the initial report within 2 hours an initial diagnosis and treatment to all related person as below list. - All LT Group (including EP) - Direct patient's supervisor (SPRC staff and Contractor) - Shift Supervisor - Lead Asset MS, Reliability Metric & IIG (IR/6) - Refinery doctor EP Leaders (EP/1-EP/7, EP/9)
	6.10.2	All work-related injuries/illnesses referred to the hospital for treatment by a SPRC Doctor or Nurse will initially be sent to Bangkok-Rayong Hospital.
	6.10.3	For any treatment that is likely to go beyond first aid, the SPRC duty nurse shall consult with the SPRC Doctor.
	6.10.4	Contractors wishing to use another hospital other than the designated hospitals will be considered on a case-by-case basis after discussion and approval from SPRC Doctor.
	6.10.5	After an initial diagnosis and treatment, a contractor company may transfer an Injured/III Person (IP) to another hospital for further treatment and follow up with concurrence from the SPRC Doctor or nurse.
	6.10.6	The employer of Injured/III Person must communicate with the SPRC clinic in providing the IP's status on a daily basis until treatment is concluded.

		EHSS Plan for Event Project		High
Who	Step	Action		
SUPSR	6.10.7	If the IP is due to return to work, but the injury/illness has not completely healed or fully recovered. The supervisor of the IP shall consult the SPRC Doctor.		
	6.10.8	In any case where the IP is released to go home with medical precautions, the IP must strictly follow the medical instruction given by the treating doctor.		
	6.10.9	To return to work, the Contractor company representative must present the return to work or final medical certificate received from the treating hospital/clinic to SPRC Clinic for evaluation at least 1 working day prior to returning to work. The final medical decisions on fitness for duty will be made by the SPRC Doctor only.		
	6.10.10	All Employees and Contractors are responsible to • Notify supervisor immediately and seek prompt medical attention following an injury or suspected work-related injury or illness. • Provide an accurate description of the suspected work-related injury or illness to supervisor and medical provider. • Provide an accurate description of any concurrent medical conditions and/or treatments to medical provider. • Adhere to treatment prescribed, work restrictions, and communication requests of Treating Doctor / Medic		
CONT	6.10.11	Contractor representative is responsible to • Coordinate with the SPRC Clinic for transportation arrangements to the hospital and ensure that the appropriate person with the required authority is assigned to assist in managing the case upon receipt of notification. • Communicate to all employees that a Drug & Alcohol test may be conducted on the IP and any other personnel directly involved in the incident in which the IP is referred to the hospital. • Visit the IP admitted to hospital with work-related illnesses/injuries. • Provide support for any consequent medical conditions of the individual IP, including compensation, etc. Contact SPRC Clinic for evaluation of the IP prior to return to work.		
6.11 Communicable Disease Response Plan				
	6.11.1	QS department shall monitor the overall situation of the outbreak and ensure compliance with Ministry of Public Health of Thailand (MOPH) guidelines where applicable. The Event Project actions will be guided by the SPRC's CMT. Measures are to be implemented such as health declarations, travel restrictions, temperature monitoring, and other restriction.		

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Who	Step	Action		
6.12 Medical Service				
	6.12.1	Medical staff SPRC will provide medical services at Clinic as following schedule; Day time, Monday – Sunday • A doctor will be available at the clinic during normal working hours, 07:30-16:30 hrs. (Execution period) • Two nurses will be available at the clinic from 06:00-18:00 hrs. (depend on workers on site) (Pre-Execution and Execution period) Night time, Monday – Sunday • Two nurses will be available at the clinic from 18:00-06:00 hrs. (Pre-Execution and Execution period)		
 NOTE		A doctor will be on call for consultation during off office hours from Monday – Sunday.		
	6.12.2	Ambulance Services Call in at any time during emergencies by telephone: extension 7777 or via the site's radio communication system on channel EHS or Emergency.		
END OF TASK				

Who	Step	Action
7. Safety Management		
7.1 Hazard Identification and Assessment		
	7.1.1	Follow • EHS-WI-QS-2009 Job Safety Analysis Guideline • EHS-WI-QS-2033 Health Risk Assessment
	7.1.2	The Risk Assessment (RA) or Job Safety Analysis (JSA) shall be developed before commencing work by contractor
	7.1.3	Low risk activities are required Risk Assessment (RA) as part of permit to Work (ePTW)
	7.1.4	Medium and High risk activities are required Job Safety Analysis (JSA) as part of permit to work (ePTW)
	7.1.5	Contractor shall develop the Job Safety Analysis (JSA) prior to commencing work by a team consisting of a minimum of two members

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Who	Step	Action		
	7.1.6	Job Safety Analysis (JSA) shall be developed in the language appropriated for working crew		
	7.1.7	Contractors shall communicate identified hazards and relevant mitigations to the workforce and affected party on site prior to work starting.		
Field Guide should be used for a quick reference to help personal involved medium and high risk activities to identify and control significant potential hazards to each activity.  NOTE 				
7.2 Contractor Health, Safety and Environment Management (CHESM)				
	7.2.1	Reference EHS-SP-QS-0018 CHESM Process Procedure		

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Who	Step	Action																														
	7.2.2	Contractor's Safety officer/Supervision ratio Contractors shall have full time safety officer on site for each level at minimum number as per ratio in Table 3 Table 3: Contractor's Safety Officers ratio <table><tr><th>Number of Contractor's Employees on Site</th><th>Contractor's Safety Officers on Site</th></tr><tr><td>2-19</td><td>1 SOS</td></tr><tr><td>20-49</td><td>1 SOT</td></tr><tr><td>50-49</td><td>1 SOAT</td></tr><tr><td>100-199</td><td>1 SOP, 1 SOT/SOAT</td></tr><tr><td>200-299</td><td>1 SOP, 2 SOT/SOAT</td></tr><tr><td>300-399</td><td>1 SOP, 3 SOT/SOAT</td></tr><tr><td>400-499</td><td>1 SOP, 4 SOT/SOAT</td></tr><tr><td>500-599</td><td>2 SOP, 5 SOT/SOAT</td></tr><tr><td>600-699</td><td>2 SOP, 6 SOT/SOAT</td></tr><tr><td>700-999</td><td>2 SOP, 9 SOT/SOAT</td></tr><tr><td>1,000-1,499</td><td>3 SOP, 13 SOT/SOAT</td></tr><tr><td>1,500-1,999</td><td>4 SOP, 17 SOT/SOAT</td></tr><tr><td>2,000 up</td><td>5 SOP, 21 SOT/SOAT</td></tr></table> Remark • SOS = Safety Officer Supervisor Level • SOT = Safety Officer Technical Level • SOAT = Safety Officer Advance Technical Level • SOP = Safety Officer Professional Level			Number of Contractor's Employees on Site	Contractor's Safety Officers on Site	2-19	1 SOS	20-49	1 SOT	50-49	1 SOAT	100-199	1 SOP, 1 SOT/SOAT	200-299	1 SOP, 2 SOT/SOAT	300-399	1 SOP, 3 SOT/SOAT	400-499	1 SOP, 4 SOT/SOAT	500-599	2 SOP, 5 SOT/SOAT	600-699	2 SOP, 6 SOT/SOAT	700-999	2 SOP, 9 SOT/SOAT	1,000-1,499	3 SOP, 13 SOT/SOAT	1,500-1,999	4 SOP, 17 SOT/SOAT	2,000 up	5 SOP, 21 SOT/SOAT
Number of Contractor's Employees on Site	Contractor's Safety Officers on Site																															
2-19	1 SOS																															
20-49	1 SOT																															
50-49	1 SOAT																															
100-199	1 SOP, 1 SOT/SOAT																															
200-299	1 SOP, 2 SOT/SOAT																															
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400-499	1 SOP, 4 SOT/SOAT																															
500-599	2 SOP, 5 SOT/SOAT																															
600-699	2 SOP, 6 SOT/SOAT																															
700-999	2 SOP, 9 SOT/SOAT																															
1,000-1,499	3 SOP, 13 SOT/SOAT																															
1,500-1,999	4 SOP, 17 SOT/SOAT																															
2,000 up	5 SOP, 21 SOT/SOAT																															
	7.2.3	Contractors shall submit the certification of all Safety Officers to SPRC-Event EHS Section for consideration prior to start work on site																														
7.3 Short Service Employee (SSE)																																
	7.3.1	Identification of Short Service Employee Short Service Employees (SSE) are any SPRC employee and contractor personnel who have any of the following: • Less than 6 months experience in Oil, Gas & Petrochemical industry. • Less than 6 months experience in the same trade/craft/job type. • Return to work in their trade/craft after break in services in the industry for more than 1 year.																														

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	7.3.2	Contractor representative shall notify SPRC Sponsor when the SSE personnel are identified before job mobilization by identify in - EHS-FO-QS-3001: Application for Access ID Card or - EHS-FO-QS-3002: Group Application for Access ID Card form This form is required to receive approval from SPRC sponsor.		
	7.3.3	It is responsibility of contractor to provide Green SSE tape for their SSE personal to post on his/her Safety Helmet during the SSE period.  		
	7.3.4	Contractors shall have a program in place to manage their SSEs in accordance with SPRC expectations.		
	7.3.5	The main contractor is required to manage their sub-contractors in alignment with this process.		
	7.3.6	Mentor must be assigned and be present at the job site with for SSE personnel. The mentor shall provide feedback (positive and negative) throughout the SSE period.		
	7.3.7	Contractor company shall closely monitor the SSE for EHS awareness and job competency throughout Event period.		
7.4 Safety Requirement				
	7.4.1	General Safety Requirement - Follow EHS-OT-QS-0002 EHS Rules & Regulations. - Each Contractor shall comply and implement the safety requirement stated in this EHSS Plan for Event Project and SPRC Safety's Requirements. - Prior to the Event Execution Contractors shall be briefed with relevant contents of the plan. - Contractors may be required to submit specific EHS Plan and Procedures which will be subject for review and approval by SPRC EHS. - The contractor shall undergo training as per EHS Training Matrix for Event Project.		
	7.4.2	Personal Protective Equipment (PPE)		

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	7.4.2.1	Basic Personal Protective Equipment (PPE)		
	a.	Contractors shall provide their employees with basic PPE in compliance with EHS-WI-QS-2022 Personal Protective Equipment or as stipulated in their contract with SPRC.		
	b.	When working in the Refinery restricted area, the basic PPE is required to be always worn and those specified in the HA/JSA or PTW. the basic PPE required to be worn at all times are as follow; - Safety helmet with chin strap. (Chin strap is required to be in use whenever the safety helmet is worn) - Safety glasses - Safety shoes - Long sleeve shirt, trousers or coveralls using Fire Retardant Cloth (FRC). - Gloves. Wear gloves whenever entering process area or tank bund wall area.		
	c.	Safety helmet shall bear Contractor Company's name or logo. Short Service Employee (SSE) shall post Green SSE tape on their helmets refer to 7.3.3		
	d.	Minimum PPE in Rest Tent When resting in the rest tent, all persons are still required wearing Safety Shoes, Safety Glasses and Fire Retardant Clothing (FRC) as a minimum.		
	e.	Contractors shall ensure that such PPE complies with SPRC requirements and provide training in the proper use of the PPE appropriate for the tasks. Inspect PPE prior use and ensure they are in good condition.		
		 WARNING Use of dark or tinted lens safety glasses is NOT ALLOW when working in poorly lighted area or night shift or in confined space.		
		 WARNING Cotton Gloves are NOT ALLOW in SPRC and Gloves must be worn whenever entering the process area or tank bund wall area.		
	7.4.2.2	Special Personal Protective Equipment (PPE)		
		Contractors must provide and replenish all required PPE for their personnel, in compliance with EHS-WI-QS-2022 Personal Protective Equipment or approved equivalents standard. However, SPRC will supply some specific and specialized PPE items as stipulated by their contract with SPRC.		
	a.	Special PPE such as respiratory protection equipment, goggles, chemical protective suite, respirator and face shield shall be used for specific jobs or in any work environment where such hazards are identified, and those specified in the RA/JSA or PTW.		
	b.	Employee and contractors shall comply with SPRC PPE Requirement (PPE Matrix Guideline by Activity for Event Project)		

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	c.	Contractors shall provide their employees with Special PPE in compliance with the standard or as stipulated in their contract with SPRC.		
	d.	Face and eye protection - Face shield shall be used during breaking containment or when working on equipment, vessel or piping with potential exposure to acid, caustic, hot and hazardous materials. - Goggle to be worn instead of safety glasses in dusty environment or working in confined space.		
	e.	Hearing Protection Hearing protection (ear plugs or earmuffs) are required when entering or working in a noise generating environment e.g. grinding, fiber metal cutting, jack hammer, high pressure water jet)		
	f.	Respiratory protection - In the working environment that potential exposure to toxic vapor Half-mask, Full-face mask equipped with appropriate cartridge type, SCBA or Airline shall be worn depending on toxic vapor concentration levels. Follow EHS -OT-QS-2039 PPE Decision Tree - Full face and half face respirator users shall undergo fit test to confirm their size of respirator.		
	g.	Chemical resistance clothing - Chemical resistant coverall/suit to be worn when working in the environment or activities potential of toxic substances such as Benzene, Mercury hazard. Normally used for equipment internal cleaning, first flange brake etc. - Type of Chemical resistant coverall/suit depending on concentration levels of toxic substances follow EHS -QT-QS-2039 PPE Decision Tree		
	h.	Falling protection Full Body Harness with Lanyard shall be worn when working at height (Refer to the AS-WI-AS-2013: Working at Height)		
	i.	Hand and arm protection Chemical protection gloves , Nitrile glove is to be use when working with Benzene or Mercury Cut resistant gloves use cut resistant gloves for handling of sharp edges work pieces e.g., internal trays replacement, insulation claddings, etc. Impact resistant Gloves are to be used for tasks where there is risk for knocks, crushing and pinch point injuries such as hydra-torque operation, rigging heavy object, mechanical/piping work etc.		

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Who	Step	Action		
	j.	Foot protection		
		Steel toed and chemical resistant boots is required for equipment internal cleaning, HPWJ cleaning etc.		
	7.4.3	Permit to work Follow - EHS-SP-QS-0012 SPRC Permitry Procedure - EHS-WI-QS-2023 Work Permitting During a T&I Work Instruction		
	7.4.4	Confined Space Entry Permit Follow - EHS-WI-QS-2016 Confined space Entry Permit Work Instruction - EHS-WI-QS-3005 Hole Watch Guideline - EHS-WI-QS-3012 Rescue Procedure		
	7.4.5	Hot Work Permit Follow - EHS-WI-QS-2015 Hot Work Permit Work Instruction - EHS-WI-QS-3004 Fire Watch Guideline		
	7.4.6	Isolation of Equipment Follow EHS-WI-QS-2014 Isolation of Equipment		
	7.4.7	Electrical Safety Follow - AS-SP-AS-3005 Electrical Work Certificate - AS-SP-AS-3007 Electrical Safe Work Practice		
	7.4.8	Radiation Safety Follow EHS-SP-QS-0014 Radiation Safety		
	7.4.9	Excavation work Follow EHS-WI-QS-2001 Excavation Work Instruction		
	7.4.10	First Break Follow EHS-WI-QS-2039 First Break Work Instruction		
	7.4.11	Crane and Lifting Follow AS-WI-AS-2001 Crane And Lifting Work Instruction		

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	7.4.12	Working at Height Follow - AS-WI-AS-2013 Working at Height - AS-WI-AS-2003 Scaffolding and Staging - AS-WI-AS-2014 Operation of Power Man-lifting Equipment - AS-WI-AS-2019 Use of Ladders - AS-WI-AS-2034 Scissor lift Operation
	7.4.13	Falling Object Prevention Follow - EHS-OT-QS-2041: Falling Objects Prevention Guideline - AS-WI-AS-2005 Guideline for using Tools Lanyard
	7.4.14	Simultaneous Operation (SIMOPS) Follow EHS-WI-QS-2036 SIMOPS Safe Work Practice
	7.4.15	Gas Testing Follow EHS-WI-QS-2024 SPRC Gas Testing Work Instruction
	7.4.16	Mercury Management Follow - EHS-WI-QS-2040 Mercury Safe handling Guideline - AS-WI-AS-2036 Mercury Contaminated Equipment Handling
	7.4.17	Use of Approved Cell Phones and Tablets in Restricted Areas Follow EHS-OT-QS-2043 Use of Approved Cell Phones and Tablets in Restricted Areas
	7.4.18	Transportation Safety and Road Closure Follow AS-WI-AS-2011 Operation of Forklift Trucks
	7.4.19	Vacuum truck operation Follow AS-WI-AS-2026 Vacuum Truck Safe Work Practice
	7.4.20	Line Cutting Follow AS-WI-AS-2006 Identification and Removal of Piping Component (Line Cutting) / Equipment from Service
	7.4.21	High Pressure Water Jetting Follow AS-WI-AS-2008 High Pressure Water Jetting
	7.4.22	Catalyst Handling Follow AS-WI-AS-2030 Catalyst Handling

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	7.4.23	Equipment and Machinery Inspection Follow - AS-WI-AS-2002 Mobile Mechanical Equipment Inspection and Permit - AS-SP-AS-3004 Inspection and Testing for Electrical Portable Tools and Equipment - AS-SP-AS-3002 Temporary Electrical Installation&Portable Electrical Equipment
	7.4.24	Safety Sign and Barricade Follow - AS-WI-AS-2032 Maintenance Warning Signs - EHS-OT-QS-2043 Barricade Guideline
END OF TASK		

Who	Step	Action
8. Emergency Management		
		During the Event Project, all personnel on-site shall follow the requirement of EHS-SP-QS-0006 Emergency Response Plan

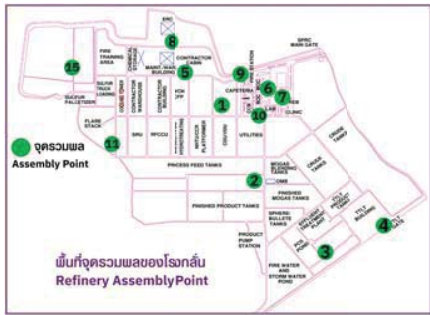
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Who	Step	Action
8.1 Assembly Point		
	8.1.1	In case of an emergency such as Fire or Gas leaks , the alarm will be raised and all personnel must immediately evacuate the working area and report to the nearest assembly point. 
8.2 Emergency Preparedness		
	8.2.1	Emergency Response Organization
	8.2.1.1	Emergency Response Team (ERT) The SPRC's Emergency Response team (ERT) will provide emergency response capabilities to respond to all Event incidents and emergencies.
	8.2.1.2	Reporting and headcount (during T&I execution) workflow with Role and Responsibility will be developed by QS/31 and EP/5.
	8.2.2	Rescue Plan Follow EHS-WI-QS-3012 Rescue Procedure

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Who	Step	Action
	8.2.2.1	Rescue Plan Development There are two rescue classifications based on the risk associated with the work being performed: General Risk (Low Risk Tasks): These tasks do not require a standby rescue team. Specific Risk (High Risk Tasks): These tasks require a standby rescue team. The Operations, Planning, and EHS teams must create a list of tasks that require a rescue team, including the work period. This information will be used to develop a rescue plan in advance by the contractor.
	8.2.2.2	Rescue Team During Event Project the SPRC fire service rescue team and/or outsource rescue team will provide rescue capabilities to response to all incident that needed rescue for both day and night shift which based on the work and risk of works being performed.
	8.2.3	Emergency Exercise - The Emergency Management Specialist is response to plan, coordinate and execute the exercises. - All personnel are required to participate in all emergency exercise conducted by SPRC during the Event Project.
	8.2.3.1	Evacuation Exercise The Emergency Management Specialist is responsible for planning, coordinating, and executing the following evacuation exercises: - Personnel evacuation from EP's office buildings and/or temporary office cabins, to be conducted when all cabins are fully occupied. - Personnel evacuation from the process area, tentatively scheduled for the mid of T&I execution period.
	8.2.3.2	Rescue Exercise Rescue exercises must be conducted for identified high-risk activities, such as Confined Space Entry Rescue and Work at Height, as outlined in EHS-WI-QS-3012 Rescue Procedure. The exercise should include a medical emergency scenario to assess the readiness of the entire system.
	8.2.4	Emergency Response Equipment The fire fighting equipments for Hot Work purpose using in SPRC are require to meet the standard follow - EHS-WI-QS-2015 Hot Work Permit Work Instruction - EHS-WI-QS-3004 Fire Watch Guideline - EHS-WI-QS-3010 Fire Fighting Equipment Service

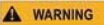
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Who	Step	Action
	8.2.4.1	Portable Fire Extinguisher - Contractors must provide their own fire extinguishers for their fire watches and standby of Hot Work purpose. The minimum fire extinguisher rating for hot work standby is 10A:40B. - Fire extinguishers must be inspected and approved for use on SPRC premises by SPRC's Fire Station. After approval, the contractor is responsible for inspecting their fire extinguishers in accordance with the manufacturer's guidelines to ensure they are ready for use.
	8.2.4.2	Fire hose and connector - Follow EHS-WI-QS-3010 Fire Fighting Equipment Service Only one fire hydrant is permitted for connecting the fire hose for hot work purposes, another hydrant must remain available for emergencies.  - The contractor is responsible for estimating and planning the number of Fire Hose needed for hot work standby purposes and borrowing them from SPRC's tool room. - The fire hose standby tag must be completed and posted at the fire hydrant by the contractor performing the hot work. 
		 WARNING DO NOT connect unauthorized fire hose adapter to SPRC fire hydrant.

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Who	Step	Action
		DO NOT use Fire hose reels as a standby for hot work.
		 WARNING 
	8.2.4.3	Breathing Apparatus (BA) - Follow EHS-WI-QS-3007 Breathing Apparatus Procedure - All personnel required to wear any type of Breathing Apparatus (BA) must be trained in its use by SPRC's Emergency Management specialists. - If the scope of work requires the contractor to provide Breathing Apparatus, the contractor must train all personnel required to wear the apparatus and submit a certificate or training record to SPRC's Fire Station as proof of proper training. - Contractor companies must ensure their personnel are competent in using Breathing Apparatus (BA) before assigning them to work for SPRC. - Contractors who successfully complete the SCBA training course or demonstration with SPRC will receive a BA training stamp on their passport.
8.3 Emergency Response		
	8.3.1	SPRC Emergency Response Team Follow EHS-SP-QS-0006 Emergency Response Plan
	8.3.2	Person Working in Office Buildings or Cabin When a fire emergency alarm sounds, occupants must: Switch off electrical equipment if time permit. Leave their office and close the door, but do not lock Evacuate from the building by using the nearest safe fire exit. Proceed to designated assembly point Report to office warden at the assembly point and waiting for further instruction.
	8.3.3	Person Working in Process Area When an Emergency Horn, H ₂ S or Flammable gas alarm sounded, all workers must: Switch off equipments they are operating. Evacuate the area, cross wind Assemble at the designated assembly point Report to Supervisor at the assembly point for headcounting. No re-entry of the area until the all clear has been given by Operations.

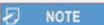
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Who	Step	Action
	8.3.4	Supervisor - Ensure all subordinates stop working. - Evacuate across-wind to a safe assembly point. - Immediately execute a head count of all sub-ordinates under control. - Report to T&I Area Leader of the status of personnel. - Wait for further instructions.
	8.3.5	Area Operations team Follow SPRC Emergency Response Plan
	8.3.6	T&I Manager, Execution Manager, and Construction Manager or Night Shift Leader Follow SPRC Emergency Response Plan, for the Night Shift Execution Leader should be the focal person until the Duty Manager arrival.
		 NOTE SPRC Emergency Sirens and All Clear shall be tested on every Wednesday at 13:30 hrs.
END OF TASK		

Who	Step	Action
9. Security of Personnel & Assets		
9.1 Vehicle Access Control		
	9.1.1	Follow EHS-SP-QS-0011 Access Control Procedure
	9.1.2	SPRC site entry and exit

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Who	Step	Action																
	9.1.2.1	The main entrance gate to the SPRC site and parking area for Event Project contractor and visitor are authorized as follows; <table><thead><tr><th>Types</th><th>Assigned entrance gate to SPRC site</th><th>Sticker</th><th>Parking area</th></tr></thead><tbody><tr><td>EP's Contractor onboarding before 2025</td><td>SPRC's main Gate (Maintain existing approved vehicle access control)</td><td></td><td>Administration parking area</td></tr><tr><td>EP's Contractor onboarding in 2025 onward</td><td>Gate 3 or 3A</td><td></td><td>Event Project Parking area</td></tr><tr><td>Visitor</td><td>SPRC's main Gate</td><td>Visitor vehicle badge exchange at SPRC's main gate</td><td>Administration parking area</td></tr></tbody></table>	Types	Assigned entrance gate to SPRC site	Sticker	Parking area	EP's Contractor onboarding before 2025	SPRC's main Gate (Maintain existing approved vehicle access control)		Administration parking area	EP's Contractor onboarding in 2025 onward	Gate 3 or 3A		Event Project Parking area	Visitor	SPRC's main Gate	Visitor vehicle badge exchange at SPRC's main gate	Administration parking area
Types	Assigned entrance gate to SPRC site	Sticker	Parking area															
EP's Contractor onboarding before 2025	SPRC's main Gate (Maintain existing approved vehicle access control)		Administration parking area															
EP's Contractor onboarding in 2025 onward	Gate 3 or 3A		Event Project Parking area															
Visitor	SPRC's main Gate	Visitor vehicle badge exchange at SPRC's main gate	Administration parking area															
 NOTE		Contractors who already hold SPRC's vehicle pass, the vehicle access control will be maintained existing approved access control level.																
	9.1.2.2	Gate 3 or 3A is designated for Event Project entry and exit gate of all vehicle types.																
	9.1.2.3	All vehicles entering the SPRC site are required to be authorized and display an approved sticker at the vehicle.																
 NOTE		Parking along the fence of the SPRC site is prohibited as it obstructs public transportation and may lead to traffic accidents.																
	9.1.3	Refinery Area entry and exit																
	9.1.3.1	Gate 12 is designated gate to access refinery area for Event Project. However, a vehicle for transporting heavy equipment, tools, materials may entry to refinery area through Main Gate and REB gate which will be considered according to the need.																

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Who	Step	Action						
	9.1.3.2	All vehicles entering a Refinery Area are required to be authorized and display an approved sticker or badge. <table><tr><th>Normal Refinery vehicle stickers</th><th>EP Refinery vehicle stickers</th></tr><tr><td></td><td></td></tr><tr><td>This sticker can access to SPRC through SPRC main gate and to refinery area through REB gate. Also can visit the EP lay down area by exiting at gate 12 but could not exit the SPRC site through gate 3 or 3A.</td><td>This sticker can access to SPRC through Gate 3 or 3A and to refinery area through Gate 12, but could not exit the SPRC site through REB Gate and SPRC's main gate</td></tr></table>	Normal Refinery vehicle stickers	EP Refinery vehicle stickers			This sticker can access to SPRC through SPRC main gate and to refinery area through REB gate . Also can visit the EP lay down area by exiting at gate 12 but could not exit the SPRC site through gate 3 or 3A .	This sticker can access to SPRC through Gate 3 or 3A and to refinery area through Gate 12 , but could not exit the SPRC site through REB Gate and SPRC's main gate
Normal Refinery vehicle stickers	EP Refinery vehicle stickers							
								
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 NOTE		The vehicle access to refinery area shall be a diesel engine type and must be in good conditions.						
	9.1.3.3	Parking inside a Refinery Area - Process areas will be permitted to park temporary for unloading material then the vehicle shall be moved to park outside the process area. - Temporary parking in the process area to unload materials must turn the engine off and leave the key in the vehicle.						
	9.1.4	Authority for vehicle passes approval Authority for vehicle passes approval are: Refinery Area : QS/3 - Lead Emergency Management EP Car Parking Area : Event Project authorized person						
	9.1.5	Delivery Vehicle						
	9.1.5.1	Delivery vehicle passes, are issued to delivery vehicle that be confirmed by direct receiver. These passes must be returned to security at the exit gate.						
	9.1.5.2	For vehicles deliver heavy equipment, the security guard shall confirm with concerned person and the concerned person shall let security know of arrival where it is possible.						

Who	Step	Action
	9.1.6	Bicycles control in Refinery Area All bicycles used at SPRC must be inspected by SPRC workshop and issued an identification plate number. Additionally, for security purposes, bicycles intended for use within the refinery area, as well as for entry to or exit from the refinery to the EP laydown area must obtain a specific bicycle control sticker from REB as needed. The stickers will be issued by REB, but as a prerequisite, bicycles must first have a plate issued by the SPRC workshop to confirm they are in safe condition. For security purposes, REB will limit the number of stickers to a maximum of 30 bicycles. 
	9.1.7	Instruction for requesting vehicle access pass to a refinery area Apply via REB Application of Obtain a form from security at the REB and fill in the information Attach the form with the copy of car registration book Get signature from SPRC authorized person. Arrange vehicle inspection with security officer Submit the completion form to security at REB Verified data and attached documents by Security section Issue vehicle pass to contractor by security Section
9.2 Personnel Access Control		
	9.2.1	Follow EHS-SP-QS-0011 Access Control Procedure
	9.2.2	Contractors who are already hold SPRC's contractor ID badge, the access control will be maintained as existing access control level. 

Who	Step	Action																
	9.2.3	The Event Project ID badge will be issued as a temporary badge to contractors who support Event Project and have been completed SPRC EHS induction and IIF orientation course. <table><tr><th>Site base contractors</th><th>Office base contractor</th></tr><tr><td>Who normally working in restricted areas must store their mobile phones in the designated locker area before entering the Refinery Area through gate 12 turnstile</td><td>Who normally working at the Event Project Building or EP's Temporary Office Cabin located within the refinery are allowed to bring their mobile phones entering the refinery area through gate 12 turnstile. However, mobile phones must remain in their office before entering restricted areas.</td></tr><tr><td></td><td></td></tr><tr><td colspan="2">Note: A mobile Phone Permitted Sign will be stamped on the badge</td></tr></table>	Site base contractors	Office base contractor	Who normally working in restricted areas must store their mobile phones in the designated locker area before entering the Refinery Area through gate 12 turnstile	Who normally working at the Event Project Building or EP's Temporary Office Cabin located within the refinery are allowed to bring their mobile phones entering the refinery area through gate 12 turnstile. However, mobile phones must remain in their office before entering restricted areas.			Note: A mobile Phone Permitted Sign will be stamped on the badge									
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Note: A mobile Phone Permitted Sign will be stamped on the badge																		
 NOTE		Mobile phones are prohibited in restricted areas.																
	9.2.4	The main entrance gate to the SPRC site for Event Project contractor and visitor are authorized as follows; <table><tr><th>Types</th><th>Main Gate</th><th>Gate 3</th><th>Gate 3A</th></tr><tr><td>EP's Contractor onboarding before 2025</td><td>Yes</td><td>Not allow</td><td>Not allow</td></tr><tr><td>EP's Contractor onboarding in 2025 onward</td><td>Not Allow</td><td>Yes</td><td>Yes</td></tr><tr><td>Visitor</td><td>Yes</td><td>Not allow</td><td>Not allow</td></tr></table>	Types	Main Gate	Gate 3	Gate 3A	EP's Contractor onboarding before 2025	Yes	Not allow	Not allow	EP's Contractor onboarding in 2025 onward	Not Allow	Yes	Yes	Visitor	Yes	Not allow	Not allow
Types	Main Gate	Gate 3	Gate 3A															
EP's Contractor onboarding before 2025	Yes	Not allow	Not allow															
EP's Contractor onboarding in 2025 onward	Not Allow	Yes	Yes															
Visitor	Yes	Not allow	Not allow															

Who	Step	Action																								
	9.2.5	The personnel access control to Refinery Area for Event Project's contractor are authorized as follows; <table><tr><th>Types</th><th>Gate 12 turn stile</th><th>CCB turn stile</th><th>Canteen</th><th>Gate 17 turn stile</th><th>REB turn stile</th></tr><tr><td>EP's contractor onboarding before 2025</td><td>Maintain existing access control level</td><td>Maintain existing access control level</td><td>Maintain existing access control level</td><td>Maintain existing access control level</td><td>Maintain existing access control level</td></tr><tr><td>EP's contractor onboarding in 2025 onward</td><td>Yes (Primary access route)</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr><tr><td>Visitor</td><td>As per requested by SPRC's host</td><td>As per requested by SPRC's host</td><td>As per requested by SPRC's host</td><td>As per requested by SPRC's host</td><td>As per requested by SPRC's host</td></tr></table>	Types	Gate 12 turn stile	CCB turn stile	Canteen	Gate 17 turn stile	REB turn stile	EP's contractor onboarding before 2025	Maintain existing access control level	Maintain existing access control level	Maintain existing access control level	Maintain existing access control level	Maintain existing access control level	EP's contractor onboarding in 2025 onward	Yes (Primary access route)	Yes	Yes	Yes	Yes	Visitor	As per requested by SPRC's host	As per requested by SPRC's host	As per requested by SPRC's host	As per requested by SPRC's host	As per requested by SPRC's host
Types	Gate 12 turn stile	CCB turn stile	Canteen	Gate 17 turn stile	REB turn stile																					
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EP's contractor onboarding in 2025 onward	Yes (Primary access route)	Yes	Yes	Yes	Yes																					
Visitor	As per requested by SPRC's host	As per requested by SPRC's host	As per requested by SPRC's host	As per requested by SPRC's host	As per requested by SPRC's host																					
 NOTE		All personnel holding Event Project ID badges must enter and exit the SPRC site through Gate 3, 3A only. Internal access between the refinery area and warehouse/workshop areas is permitted; however, exiting through the SPRC's main gate is prohibited unless a justified reason is provided.																								
	9.2.6	Visitor passes for the Event Project will be issued as regular procedure. Each visitor must be accompanied by an SPRC host or their designated representative to ensure proper escort. Passes must be returned to security upon exiting through the SPRC's main gate.																								
	9.2.7	SPRC hosts or their designated representatives must submit a Visitor Registration form at least one day prior to the visitor's arrival.																								

SPRC		EHSS Plan for Event Project	High
Who	Step	Action	
	9.2.8	Instruction for personnel access passes request Apply via REB Application or Download a EHS-FO-QS-3001 Application for Access ID Card Form or EHS-FO-QS-3002 Group Application for Access ID Card Form or obtain from security at the REB and fill in the information. Attach required documents as below; - A copy of national ID or passport (for foreigner) - Two of color photo (1") - Medical checked up certificate. (valid for no more than 1 month after the check-up date) - Certificate of Employment (หนังสือรับรองการเป็นพนักงานของบริษัทฯ) Get signature from SPRC sponsor. Attend EHS induction and IIF Orientation and have the form signed by Safety personnel. Submit the completed form to security at REB. Verify documents above and forward to badge pass issue section. Issue badge pass to contractor	
		NOTE The access control card (proximity card) must be returned to security on completion of Event Project. If not, the SPRC will charge to the contractor company.	
9.3 Material Movement Control			
	9.3.1	Material Entry Declaration (MED)	
	9.3.1.1	Contractors must declare all materials using the Material Entry Declaration (MED) form upon arrival at the gate.	
	9.3.1.2	For general equipments, tools and materials , refer to the stored area. These items are allowed to deliver to refinery through the gate 3 or 3A, and to refinery through Gate 12. However, some items that need to be delivered through SPRC main gate and to refinery through REB gate will be considered in case by case.	
	9.3.1.3	For all delivery materials for the Event Project, the receivers must inform security at the entry gate of the delivery location or come to receive the materials at the gate.	
	9.3.1.4	The delivery note must be presented to the security guard at the gate. For partial deliveries, a delivery note indicating the remaining destination must be presented to security when exiting.	
	9.3.1.5	Internal movement between the refinery area and the warehouse/workshop area does not require a gate pass.	
	9.3.1.6	The owner will retain a copy of the MED form, which must be presented to SPRC authority for verification of possession before signing off.	

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		EHSS Plan for Event Project	High
Who	Step	Action	
	9.3.1.7	The MED is valid as a Material Gate Pass for a maximum period of 14 days from the date of entry. After this period, a Material Gate Pass will be required at the exit gate.	
	9.3.1.8	Only materials being removed from the site need to be declared.	
	9.3.1.9	Materials Entry Process instruction Submit list of tools & equipment to security at the entry gate by using Material Entry Declaration Form (MED) and attachment (if any). Check physically against the list in MED and/or attachment by security. Retain 1st copy by security at the gate. The 2nd and 3rd copy retained by contractors. Deliver the material entry to SPRC.	
	9.3.2	Material Exit Declaration	
	9.3.2.1	The SPRC Materials Gate Pass form must be used for the movement of all SPRC property and contractor materials leaving the SPRC site. This form must be signed by authorized personnel approved by the Event Manager. Please refer to Specimen of Signature for Material Gate Pass Approval (2026 T&I).	
	9.3.2.2	The empty vehicle will be allowed to exit through the gate as entry.	
	9.3.2.3	The Material Gate Pass is required at Gate 12 and Gate 3 or 3A. Gate 12 controls materials from the SPRC refinery area, while Gate 3 or 3A is intended to manage materials from the EP laydown and warehouse (outside of Gate 12).	
	9.3.2.4	Contractors must refer to the MED number for security counter checks when signing off the Materials Gate Pass at the exit gate. If all items listed on the MED need to be removed from the site, the MED should be attached to the Materials Gate Pass. If the MED is not valid (longer than 14 day) , the contractors to present 2nd and 3rd copy of MED to the Event Project designated Authorized Person (Refer Specimen of Signature for Material Gate Pass Approval (2026 T&I) to issue materials gate pass .	
		NOTE In case of the need to exit through the REB gate have to notify REB and will consider case by case.	
	9.4	Event project material delivery passes are issued to both the driver and the delivery vehicle. Deliveries will be made directly to the drop-off location if the designated receiver can be contacted and is available to accept the delivery at the REB gate. If the receiver cannot be reached, deliveries will be directed to the SPRC warehouse via the main gate, following the normal access procedure. These passes must be returned to security at the exit gate.	

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		EHSS Plan for Event Project	High
Who	Step	Action	
9.5 Communication with security			
	9.5.1	Contact Security using the internal phone number 7090 or via radio on the EHS channel	
END OF TASK			

Who	Step	Action
10. IIF Promotion and Recognition		
10.1 IIF Promotion		
	10.1.1	The IIF promotion will be support by the company Incident and Injury Free Improving Team (IIFIT), Environmental Improving Team (EIT), and Process Safety and Reliability Improving Team (PSRIT).
	10.1.2	Event Project's contractor may provide a representative to be a member and working with the team for a IIF Promotion throughout the Event Project period.
	10.1.3	All personnel related to T&I shall participate and support IIF Promotion activities which shall include, but not limited to, Specific EHSS campaigns, Notice Boards, Bulletins, Posters, Banners, Rewards and Recognition Programs to highlight exemplary practices or behaviors, etc.
10.2 Rewards and Recognition		
	10.2.1	Personal Recognition and Reward IIF Recognition shall be awarded to any employee or contractor who have shown exemplary behaviour/contribution towards the personal commitment where individual hold themselves responsible for not only their own safety and well-being, but for their co-workers or every one else. It can also be by presenting an alternative and safer way to conduct a task or a positive contribution by way of a suggestion. These employees or contractor shall be presented with rewards such as, but not limited to, Caltex Star Card and/or Certificates.
	10.2.2	IIF Milestone Achievement Celebration When the Event Project executed with our recordable injury, IIF milestone achievement celebration shall be held for all employee and contractor in weekly basis. Employee and contractor shall be presented with rewards such as lunch, meal etc.

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Who	Step	Action
	10.2.3	Performance Risk and Reward Incentive for Contractor Company Depending on the contract, execution without recordable injuries is a part of the Contract Performance Risk and Reward Incentive (PRRI). A contractor company will be rewarded if it meets ALL of PRRI criteria.
END OF TASK		

Who	Step	Action
11. Incident Investigation and Reporting		
		The injured person must be taken to the SPRC Clinic immediately for proper first aid and further action by the Medical team.
	11.1	Incident Reporting
	11.1.1	Any Actual Incident or Near Miss which resulting from Even Project activities must be reported and investigated as described in Incident Investigation and Analysis (RMS-SP-SPRC-007), investigation initiation and implementation of corrective actions to be such that no incidents are repeated during the event execution period.
	11.1.2	In case of the contractor personnel injury, no matter how slight the injury, the Contractor's Supervisors or Safety Supervisor shall immediately report to the following SPRC personnel - Event Manager - T&I Manager - Technical and Engineering Manager - Event EHS Manager - Operations Coordinator or Shift Supervisor - T&I Planner - Area Health and Safety Engineer
	11.2	Incident investigation
	11.2.1	Incident investigation team will be focal point for investigation and available 24 hours during the Event Project execution phase (Dedicated team). Team shall assign focal point stand by during off-hour and available on site within 1 hour after request from the shift supervisor or T&I Managers/Technical and Engineering Manager.

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Who	Step	Action
	11.2.2	Investigation coordinator team (dedicated person) conduct investigates incidents and near miss during the T&I execution. The team consists of minimum 2 SPRC staff from different disciplines but not limits to, direct concerned to incident company representative as follows; - Area leader or assigned person - Staff from Production Unit (Area coordinator) - Investigation Coordinator - Area Health and Safety Specialist - Injuror's company representative (site coordinator or manager) and safety supervisor.
	11.2.3	Incident Severity and Investigation method selection Medium and High Severity Incident (Both actual and Potential severity) , the Investigation is required as per RMS-SP-SPRC-007: Incident Investigation and Analysis. Actual Low Severity Incident, Learning Team to be set up for Low Severity Incident (full investigation is not required) Potential Low Severity Incident, Incident Investigation nor Learning team is require, However incident must be report and record in the system.

Who	Step	Action
	11.3	Sharing lessons learned Lesson learned shall be disseminated by shift supervisor or T&I Managers/Technical and Engineering Manager in the Planning Update Meeting, Area Health and Safety Specialist in the EHS Team Meeting, and Contractor Safety Officer in the toolbox talks, at the first opportunity.
END OF TASK		

Who	Step	Action
12. External communication and complaints management		
	12.1	Follow the EHS-SP-QS-0003 EHS Communications & Complaints if there is any external complaint.
	12.2	CA consults with Environmental Specialist to prepare shutdown notification to IEAT, DIW, MTP Municipality and neighbors.
	12.3	CA prepares communities communication via billboard, mobile vehicle, radio, visit, etc.
	12.4	In conjunction with CA and EP/5 will keep the neighboring plants informed in advance of Event Project activities that may potentially cause nuisance or impact to the neighbors e.g. pre-commissioning activities that may generate noise (steam blowing/ flushing). The information will receive from both T&I Manager or Construction Manager and Production Manager.
END OF TASK		

Who	Step	Action
13. Shutting Down, Pre-commissioning & Commissioning		
13.1 Shutting Down		
OP	13.1.1	Ensure all the oily water sewers are flushed with water after oil out steaming and draining activities. The sewer covers shall be sealed
OC	13.1.2	Announce the message to not allow unauthorized person entry to the process area during shutting down process
	13.1.3	Restrict work activities to minimize personnel in the plant during oil out and oil in periods

Who	Step	Action
	11.2.4	Incident Investigation and Reporting Workflow <pre> graph TD Incident --> WS[Work Supervisor • Report to Execution Leader • Report to SPRC Safety Engineer] Incident --> EL[Execution Leader • Stop work with the same fashion • Report to Event Manager • Report to SPRC Shift Supervisor] WS --> SE[Safety Engineer • Inform / call in II focal point • Conduct RCA preliminary report] SE --> IFP1[II Focal Point • Evident gathering • On site within 1 hour] IFP1 --> IFP2[II Focal Point • Set up the II Team per severity • Facilitate the investigation] IFP2 --> IFP3[II Focal Point • Finalize the corrective actions • Getting agreement from responsible person • Generate the final report] IFP3 --> CARP[Corrective Action Responsible Person • Complete action per agreement • Report status to Event II Team] CARP --> IFP1 IFP1 --> IFP4[II Focal Point • Monitor incident close out status • Provide and update status report] IFP4 --> DCA{All CAs closed?} DCA -- No --> IFP3 DCA -- Yes --> IFP5[II Focal Point • Inform to Execution Leader upon completion of work] IFP5 --> EL2[Execution Leader • Activate team and resume work] EL2 --> End([End]) </pre> Note : II = Incident Investigation
	11.2.5	Target for incident investigation and corrective action are as follows; - Incident resulting in injury case must be investigated within 24 hours after incident happen High severity of near miss must be investigate within 24 hours after incident happen - Other near misses should investigate within 72 hours after incidents happen - Implementation of the corrective actions must be completed before the same type of job is resumed otherwise work will be suspended accept if the work or incident specific or caused from that task or workmanship of that work or approve by Event Manager.

Who	Step	Action
13.2 Pre Commissioning, Commissioning, including Sequence & Operation Procedures		
	13.2.1	Operations will be responsible for commissioning and conduct PSSR (Pre-Start up Safety Review) prior to commissioning. Several sub-PSSRs may need to be carried out as sections of the new process plants/systems are being commissioned.
	13.2.2	Operations & Project Commissioning Team shall review project P&IDs and related documents accordingly, keeping in view pre-commissioning and commissioning sequence of systems and need for adequate isolation/ blinding/ LOTO arrangements.
END OF TASK		

Who	Step	Action
14. Facilities Location		
14.1 Site Facility Locations		
	14.1.1	T&I Core Team together with concerns person as well as contractors will review the locations of temporary tentages , material storage cabins, containers, materials lay down and worker rest areas with approval from Operations.
14.2 Rest Area for Workers		
	14.2.1	An adequate rest area for workers will be provided near the work site, featuring open shelters and amenities such as toilets, wash areas, drinking water, tables, and chairs. These facilities will be properly maintained daily sanitation by contractors.
	14.2.2	Contractors must provide sufficient accommodation and resting facilities to ensure that workers can rest adequately after their shifts, especially following night shifts.
	14.2.3	The rest areas shall be designated as mustering areas in the activation of SPRC's emergency siren. All Contractors are required to conduct immediate head-count at designated assembly point located near the rest area and forward their results to the Security Shift Officer (REB) upon sounding of the SPRC emergency siren.
	14.2.4	The contractor shall provide thier workers to perform regular housekeeping in the tent rest areas.

Who	Step	Action
14.3 Portable Building Siting		
	14.3.1	Follow EHS-WI-QS-2032 Facility Siting Guideline
	14.3.2	Tentages will be erected for issuing of permits as well workers rest areas at the location provided only.
	14.3.3	Containers for material storage are allowed to be placed at or near shutdown process units, but they must be approved follow EHS-WI-QS-2032 Facility Siting Guideline
	14.3.4	Only temporary material storage cabins are approved for placement near shutdown process units, and they must meet all of the following requirements: 1. Staging of material storage cabin can be done prior to shutdown, but not occupied until unit is completely shutdown or start up. 2. Electrical power shall not be connected until the process unit is completely shutdown and oil out. 3. The cabin shall be used strictly for material storage and not for meetings or resting. 4. The number of personnel permitted in the material storage cabin is limited to a maximum of 2 persons.
	14.3.5	Other general requirements for temporary cabin include: 1. Cabin shall not be installed in electrically classified area. 2. Base of cabin shall have skirting installed if elevate above grade to keep flammable vapors from accumulating underneath. 3. Fire extinguishers shall be met SPRC standard. 4. Exists shall be on side away from process unit where practicable. 5. Material storage cabins shall be electrically grounded. 6. Material storage cabins shall not be installed under or over piping with hydrocarbon flanges and/or valves. 7. Preferable is to not have windows in material storage cabin. Windows can be covered with half-inch thick plywood with 3-4 inches overlap over the frame.
	14.3.6	On the activation of Refinery emergency siren, occupants of material storage cabin shall evacuate to mustering point and must not remain in the cabin.
	14.3.7	Temporary tentages and material storage cabins should be located away from oily sewer drainage.

Appendix

Who	Step	Action
	14.3.8	The height limitation of storage at materials lay down area shall be complied and not to obstruct fire engines operation or emergency vehicles.
END OF TASK		

Definitions

Term	Definition

References

1. Event 2019 EHSS Plan

Step/Section	Reason for Change
Step 1.1	(Added) -
Step 1.2	(Added) -
Step 1.3.1	(Deleted) - -
Step 2.1	(Added) -
Step 2.2	(Added) -
Step 1.3.2	(Deleted) - -
Step 2.3	(Added) -
Step 2.4	(Added) -
Step 2.6	(Added) -
Step 2.7	(Added) -
Note Step (Unnumbered) - 2.7	(Added) -
Step 2.8	(Added) -
Step 1.3.3	(Deleted) - -
Step 2.9	(Added) -
Step (Unnumbered) - 2.9	(Added) -
Section 3.1	(Added) -
Step 3.1.1	(Added) -
Section 3.2	(Added) -
Step 1.3.4	(Deleted) - -
Step 3.2.2	(Added) -
Section 3.3	(Added) -
Step 3.3.1	(Added) -
Section 4.1	(Added) -
Step 4.1.2	(Added) -
Step 4.1.3	(Added) -
Step 4.1.4	(Added) -
Step 4.1.5	(Added) -
Section 1.5	(Deleted) - move to 5.1.2.8

Amendment List

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

Revision No.	Date	Page/Section	Reason	By
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Step/Section	Reason for Change
Information	(Deleted) - -
Information	(Added) -
Information	(Added) -
Information	(Deleted) - -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Information	(Added) -
Step 1.1.2	(Deleted) - -
Information	(Added) -
Step 1.1.3	(Deleted) - -
Information	(Added) -
Step 1.1.4	(Deleted) - -
Step 1.1.5	(Deleted) - -
Step 1.1.6	(Deleted) - -
Step 1.1.7	(Deleted) - -
Section 1.	(Added) -

Step/Section	Reason for Change
Step 4.1.6	(Added) -
Section 4.2	(Added) -
Step 4.2.1	(Added) -
Step 4.2.2	(Added) -
Step 4.2.3	(Added) -
Step 4.2.4	(Added) -
Step 4.2.5	(Added) -
Section 4.3	(Added) -
Step 4.3.2	(Added) -
Step 4.3.3	(Added) -
Note Step (Unnumbered) - 2.2.1	(Deleted) - -
Step 4.3.4	(Added) -
Information Step (Unnumbered) - 5.	(Added) -
Section 2.4	(Deleted) - -
Step 5.1.1	(Added) -
Step 5.1.1.1	(Added) -
Step 5.1.1.2	(Added) -
Step 5.1.1.3	(Added) -
Warning Step (Unnumbered) - 2.6.1	(Deleted) - -
Step 5.1.1.4	(Added) -
Step 5.1.1.5	(Added) -
Step 5.1.2	(Added) -
Step 5.1.2.1	(Added) -
Warning Step (Unnumbered) - 2.8	(Deleted) - -
Step 5.1.2.2	(Added) -
Step 5.2.1	(Added) -



Step/Section	Reason for Change
Note Step (Unnumbered) - 2.8.2	(Deleted) - -
Step 5.2.1.1	(Added) -
Step 5.2.1.2	(Added) -
Step 2.8.4	(Deleted) - -
Step 5.2.1.3	(Added) -
Step 2.8.5	(Deleted) - -
Step 5.2.1.4	(Added) -
Step 2.8.6	(Deleted) - -
Step 5.2.1.5	(Added) -
Step 5.2.1.6	(Added) -
Step 5.2.1.7	(Added) -
Step 2.9.2	(Deleted) - -
Warning Step (Unnumbered) - 5.2.1.7	(Added) -
Step 2.9.3	(Deleted) - -
Step 5.2.2	(Added) -
Step 2.9.4	(Deleted) - -
Step 5.2.2.1	(Added) -
Step 2.9.5	(Deleted) - -
Step 5.2.2.2	(Added) -
Step 2.9.6	(Deleted) - -
Step 5.2.2.3	(Added) -
Step 5.2.2.4	(Added) -
Step 5.2.3	(Added) -
Step 5.2.3.1	(Added) -
Step 5.2.3.2	(Added) -
Step 5.2.3.3	(Added) -
Step 5.2.3.4	(Added) -

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Step/Section	Reason for Change
Note Step (Unnumbered) - 2.11.1	(Deleted) - -
Step 5.2.3.5	(Added) -
Step 5.2.3.6	(Added) -
Step 5.2.3.7	(Added) -
Step 5.2.3.8	(Added) -
Step 5.2.4	(Added) -
Step 5.2.4.1	(Added) -
Step 5.2.4.2	(Added) -
Step 5.2.5	(Added) -
Step 5.2.5.1	(Added) -
Step 5.2.5.2	(Added) -
Step 5.2.5.3	(Added) -
Step 5.2.5.4	(Added) -
Step 3.3.1.1	(Deleted) - -
Step 5.2.6	(Added) -
Step 3.3.2	(Deleted) - -
Step 5.2.6.1	(Added) -
Step 5.2.6.2	(Added) -
Step 5.2.7	(Added) -
Step 3.3.3.1	(Deleted) - -
Warning Step (Unnumbered) - 5.2.7	(Added) -
Step 5.2.7.1	(Added) -
Step 5.2.8	(Added) -
Step 5.2.8.1	(Added) -
Step 5.2.8.2	(Added) -
Step 5.2.8.3	(Added) -
Step 5.2.8.4	(Added) -

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Step/Section	Reason for Change
Step 3.5.1.1	(Deleted) - -
Step 5.2.8.5	(Added) -
Section 3.6	(Deleted) - -
Caution Step (Unnumbered) - 3.6	(Deleted) - -
Caution Step (Unnumbered) - 3.6	(Deleted) - -
Step 5.3.4	(Added) -
Step 5.3.5	(Added) -
Step 3.7.2	(Deleted) - -
Step 5.3.6	(Added) -
Step 5.3.7	(Added) -
Step 3.7.3	(Deleted) - -
Step 5.3.8	(Added) -
Step 5.3.9	(Added) -
Section 3.9	(Deleted) - -
Step 5.4.3	(Added) -
Section 5.5	(Added) -
Step 5.5.1	(Added) -
Section 3.10	(Deleted) - -
Step 5.5.2	(Added) -
Section 5.6	(Added) -
Step 5.6.1	(Added) -
Step 6.1.2	(Added) -
Section 6.2	(Added) -
Step 6.2.1	(Added) -
Step 6.2.2	(Added) -
Step 6.3.2	(Added) -
Step 6.3.3	(Added) -

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Step/Section	Reason for Change
Step 4.2.1	(Deleted) - -
Step 6.3.4	(Added) -
Step 6.4.2	(Added) -
Note Step (Unnumbered) - 4.3.1	(Deleted) - -
Section 4.4	(Deleted) - -
Step 6.5.1.1	(Added) -
Section 4.5	(Deleted) - -
Step 6.5.1.2	(Added) -
Step 6.5.1.3	(Added) -
Step 6.5.1.4	(Added) -
Step 6.5.2.1	(Added) -
Step 6.5.2.2	(Added) -
Section 4.6	(Deleted) - -
Step 6.5.2.3	(Added) -
Note Step (Unnumbered) - 6.5.2.3	(Added) -
Section 5.1	(Deleted) - -
Step 5.1.1	(Deleted) - -
Step 6.6.2	(Added) -
Step 6.6.3	(Added) -
Step 6.6.4	(Added) -
Step 5.1.1.6	(Deleted) - -
Step 6.7.2	(Added) -
Step (Unnumbered) - 6.7.2	(Added) -
Step 6.7.3	(Added) -
Step 5.1.1.8.a	(Deleted) - -
Step 6.7.4	(Added) -
Step 5.1.1.8.b	(Deleted) - -

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Step/Section	Reason for Change
Step 6.7.5	(Added) -
Step 5.1.1.8.c	(Deleted) - -
Step 6.7.6	(Added) -
Step 5.1.1.8.d	(Deleted) - -
Step 5.1.1.8.e	(Deleted) - -
Step 5.1.1.8.f	(Deleted) - -
Step 6.8.2	(Added) -
Step 5.1.1.8.g	(Deleted) - -
Step 6.8.3	(Added) -
Step 5.1.2	(Deleted) - -
Step 6.8.4	(Added) -
Step 5.1.2.1	(Deleted) - -
Step 6.8.5	(Added) -
Step 5.1.2.2	(Deleted) - -
Step 6.8.6	(Added) -
Step 6.8.7	(Added) -
Step 5.1.2.4	(Deleted) - -
Note Step (Unnumbered) - 5.1.2.4	(Deleted) - -
Note Step (Unnumbered) - 5.1.2.6	(Deleted) - -
Caution Step (Unnumbered) - 5.1.2.6	(Deleted) - -
Step 6.10.1	(Added) -
Step 5.1.2.7.a	(Deleted) - -
Step 5.1.2.7.b	(Deleted) - -
Step 6.10.3	(Added) -
Step 5.1.2.7.c	(Deleted) - -
Step 6.10.4	(Added) -
Step 5.1.2.7.d	(Deleted) - -

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Step 6.10.5	(Added) -
Step 5.1.2.7.e	(Deleted) - -
Step 6.10.6	(Added) -
Step 5.1.2.7.f	(Deleted) - -
Step 6.10.7	(Added) -
Step 5.1.2.7.g	(Deleted) - -
Step 6.10.8	(Added) -
Step 5.1.3	(Deleted) - -
Step 6.10.9	(Added) -
Step 5.1.3.1	(Deleted) - -
Step 6.10.10	(Added) -
Step 5.1.3.2	(Deleted) - -
Step 6.10.11	(Added) -
Step 5.1.3.4	(Deleted) - -
Section 6.12	(Added) -
Step 5.1.3.6	(Deleted) - -
Step 6.12.1	(Added) -
Step 5.1.3.7	(Deleted) - -
Note Step (Unnumbered) - 6.12.1	(Added) -
Step 5.1.3.8	(Deleted) - -
Step 6.12.2	(Added) -
Step 5.1.3.9.a	(Deleted) - -
Step 5.1.3.9.b	(Deleted) - -
Step 7.1.1	(Added) -
Step 5.1.3.9.c	(Deleted) - -
Step 5.1.3.9.d	(Deleted) - -
Step 5.1.3.10	(Deleted) - -
Step 7.1.4	(Added) -

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Step 5.1.3.10.a	(Deleted) - -
Step 5.1.3.10.b	(Deleted) - -
Step 7.1.6	(Added) -
Step 5.1.3.10.c	(Deleted) - -
Step 7.1.7	(Added) -
Note Step (Unnumbered) - 7.1.7	(Added) -
Section 5.2	(Deleted) - -
Step 5.2.1	(Deleted) - -
Step 7.2.3	(Added) -
Step 7.3.2	(Added) -
Step 7.3.3	(Added) -
Step 7.3.4	(Added) -
Step 7.3.5	(Added) -
Step 7.3.6	(Added) -
Step 7.3.7	(Added) -
Step 7.4.1	(Added) -
Step 7.4.2	(Added) -
Step 7.4.2.1	(Added) -
Step 7.4.2.1.a	(Added) -
Step 7.4.2.1.b	(Added) -
Step 7.4.2.1.c	(Added) -
Step 7.4.2.1.d	(Added) -
Step 7.4.2.1.e	(Added) -
Warning Step (Unnumbered) - 7.4.2.1.e	(Added) -
Warning Step (Unnumbered) - 7.4.2.1.e	(Added) -
Step 7.4.2.2	(Added) -

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Step/Section	Reason for Change
Step 7.4.2.2.a	(Added) -
Step 7.4.2.2.b	(Added) -
Section 7.3	(Deleted) - -
Step 7.4.2.2.c	(Added) -
Step 7.4.2.2.d	(Added) -
Step 7.4.2.2.e	(Added) -
Step 7.4.2.2.f	(Added) -
Step 7.4.2.2.g	(Added) -
Step 7.4.2.2.h	(Added) -
Step 7.4.2.2.i	(Added) -
Step 7.4.2.2.j	(Added) -
Step 8.1.4.1	(Deleted) - -
Step 8.1.4.2	(Deleted) - -
Step 7.4.4	(Added) -
Step 8.1.4.3	(Deleted) - -
Step 7.4.5	(Added) -
Step 8.1.4.4	(Deleted) - -
Step 7.4.6	(Added) -
Step 7.4.7	(Added) -
Step 7.4.8	(Added) -
Step 7.4.9	(Added) -
Step 7.4.10	(Added) -
Step 7.4.11	(Added) -
Step 7.4.12	(Added) -
Step 7.4.13	(Added) -
Step 7.4.14	(Added) -
Step 7.4.15	(Added) -
Step 7.4.16	(Added) -

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Step/Section	Reason for Change
Step 7.4.17	(Added) -
Step 7.4.18	(Added) -
Information Step (Unnumbered) - 8.3.1	(Deleted) - -
Step 7.4.19	(Added) -
Step 7.4.20	(Added) -
Step 7.4.21	(Added) -
Step 7.4.22	(Added) -
Step 7.4.23	(Added) -
Step 7.4.24	(Added) -
Information Step (Unnumbered) - 8.	(Added) -
Step 8.2.1	(Added) -
Step 8.2.1.1	(Added) -
Step 8.2.2	(Added) -
Step 8.2.2.1	(Added) -
Step 8.2.2.2	(Added) -
Step 8.2.3.1	(Added) -
Step 8.2.3.2	(Added) -
Step 8.2.4	(Added) -
Step 8.2.4.1	(Added) -
Step 8.2.4.2	(Added) -
Warning Step (Unnumbered) - 8.2.4.2	(Added) -
Warning Step (Unnumbered) - 8.2.4.2	(Added) -
Step 8.2.4.3	(Added) -
Step 8.3.1	(Added) -
Step 8.3.2	(Added) -
Step 8.3.3	(Added) -

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Step/Section	Reason for Change
Step 8.3.4	(Added) -
Step 8.3.5	(Added) -
Step 8.3.6	(Added) -
Section 9.1	(Added) -
Step 9.1.2	(Added) -
Step 9.1.2.1	(Added) -
Note Step (Unnumbered) - 9.1.2.1	(Added) -
Step 9.1.2.2	(Added) -
Step 9.1.2.3	(Added) -
Step 9.1.3	(Added) -
Step 9.1.3.1	(Added) -
Step 9.1.3.2	(Added) -
Note Step (Unnumbered) - 9.1.3.2	(Added) -
Step 9.1.3.3	(Added) -
Step 9.1.5.1	(Added) -
Step 9.1.5.2	(Added) -
Step 9.1.6	(Added) -
Section 9.2	(Added) -
Step 9.2.1	(Added) -
Note Step (Unnumbered) - 9.2.3	(Added) -
Step 9.2.5	(Added) -
Step 9.2.7	(Added) -
Section 9.3	(Added) -
Step 9.3.1	(Added) -
Step 9.3.1.1	(Added) -
Step 9.3.1.2	(Added) -
Step 9.3.1.3	(Added) -

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Step/Section	Reason for Change
Step 9.3.1.4	(Added) -
Step 9.3.1.5	(Added) -
Step 9.3.1.6	(Added) -
Step 9.3.1.7	(Added) -
Step 9.3.1.8	(Added) -
Step 9.3.1.9	(Added) -
Step 9.3.2	(Added) -
Step 9.3.2.1	(Added) -
Step 9.3.2.2	(Added) -
Step 9.3.2.3	(Added) -
Step 9.3.2.4	(Added) -
Note Step (Unnumbered) - 9.3.2.4	(Added) -
Step 9.4	(Added) -
Section 10.	(Added) -
Section 10.1	(Added) -
Step 10.1.1	(Added) -
Step 10.1.2	(Added) -
Step 10.1.3	(Added) -
Section 10.2	(Added) -
Step 10.2.1	(Added) -
Step 10.2.2	(Added) -
Step 10.2.3	(Added) -
Step 11.1	(Added) -
Step 11.2.3	(Added) -
Section 12.	(Added) -
Step 12.1	(Added) -
Step 12.2	(Added) -
Step 12.3	(Added) -

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Distribution List

Copy No.	Controller/Holder	Location
00	Electronic Controller	SmartProcedures

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ภาคผนวก ข.1-4

การฝึกอบรมสำหรับผู้ปฏิบัติงาน

Event 2026 Training Courses

REV. DATE : 8 October 2025



No.	Course Name	Course Group	Course Type	Type of evaluation	Duration (hrs.)	Max Attendee	Focal Point	Required Documents	Pre-requisite Courses	Certificate Expiry	Freq. of refresher (SPRC)	Target Group	Remark
1	EHS Induction and IIF Orientation	Mandatory Course	1. Basic Course	Online Test	7.5	60	Pintusorn W. (EP/52C1)	1.Certificate of employment 2. EHS Training Certificate (6 hrs.) 3. Medical certificate (free from 5 prohibited diseases), issued within the past 1 month 4. PDPA Consent 5. Profile Photo	None	None	Every 3 calendar year (Next refresher will be 2026)	All persons	
2	Permit Requester	EHS Competency	2. Verify Certificate Training & Test	Online Test	3.5	40	Warayut P. (QS/41) Chudapa P. (QS/42) Nillawan P.(QS/43) Pintusorn W. (EP/52C1)	Educational qualification (Minimum high vocational degree)	1. EHS Induction and IIF Orientation	None	Every 3 years	Permit Requester	
3	Permit Holder	EHS Competency	4. Training & Test	Online Test	3.5	40	Warayut P. (QS/41) Chudapa P. (QS/42) Nillawan P.(QS/43) Pintusorn W. (EP/52C1)	No Document Required	1. EHS Induction and IIF Orientation	None	Every 3 years	Permit Holder	
4	Confined space Entry	EHS Competency	3. Verify Certificate	N/A	0	0	Chudapa P. (QS/42) Nillawan P.(QS/43) Pintusorn W. (EP/52C1)	1.Confined Space Entry Certificate for Entrant or Combined Course (4 Roles) by a registered institute approved by the Department of Labor Protection and Welfare (DLPW) 2.Confined Space Work Medical Certificate by Occupational Physician within the past 6 months.	1. EHS Induction and IIF Orientation	5 years	Every 3 years	Entrant (ผู้ปฏิบัติงาน), Rescuer (ผู้ช่วยเหลือ), Supervisor (ผู้ควบคุมงาน), Hole Watcher (ผู้ดูแลปากทางเข้า)	
5	Fire watcher	EHS Competency	2. Verify Certificate Training & Test	Online Test	3.5	50	Narongrat B. (QS/31) Siripong B. (QS/32)	1.Basic Fire Fighting Training Certificate 2.Educational qualification (Minimum educational qualification: Lower secondary education)	1. EHS Induction and IIF Orientation	4 years	Every 3 years	Fire Watcher	
6	Hole watcher	EHS Competency	2. Verify Certificate Training & Test	Online Test	3.5	50	Narongrat B. (QS/31) Siripong B. (QS/32)	1.Confined Space Entry Certificate for Attendant or Combined Course (4 Roles) by a registered institute approved by the Department of Labor Protection and Welfare (DLPW) 2.Educational qualification (Minimum educational qualification: Lower secondary education)	1. EHS Induction and IIF Orientation 2. Confined space Entry (SPRC)	5 years	Every 3 years	Hole Watcher	
7.1	SCBA/Air Line User - SPRC own asset	EHS Competency	4. Training & Test	Online Test	3.5	15	Narongrat B. (QS/31) Siripong B. (QS/32)	No Document Required	1. EHS Induction and IIF Orientation	None	Every 3 years	Person doing first break, Maintenance Stand by Person, Confined Space Rescuer (ผู้ช่วยเหลือ)	When contractor using SPRC SCBA/BA, contractor required to pass training and practicing by SPRC Fire Station
7.2	SCBA/Air Line User - Contractor own asset	EHS Competency	3. Verify Certificate	N/A	-	N/A	Narongrat B. (QS/31) Siripong B. (QS/32)	SCBA training certificate	1. EHS Induction and IIF Orientation	As per SCBA Training certificate expiry date	As per SCBA Training certificate expiry date	Person doing first break, Maintenance Stand by Person, Confined Space Rescuer (ผู้ช่วยเหลือ)	When Contractor using their own SCBA/Air line, contractor required to verify training certificate and All SCBA/Air line required inspection before using by Fire Station.
8	IIF Supervisor Alignment & Expectation	EHS Competency	5. Only Training	ID Scan Check-in	3.5	60	Sarawat Sa. (EP/5)	No Document Required	1. EHS Induction and IIF Orientation	None	None	Supervisor, Foreman, Front line Leader Safety Officer ALL Level , Environmental Representative	
9	Fit test	Fit test	4. Training & Test	ID Fit Test	-	20	Piyapat P. (QS/431) Anchulee K. (QS/432) Mayuree S. (QS/433)	- Medical Certificate for Fit test Confined space work: ผู้รับรองแพทย์ที่ทำงานในไฟ อันตราย ที่มีผล EKG, Chest X-ray, Spirometry, CBC - Medical Certificate for fit test working at height: ผู้รับรองแพทย์ที่ทำงานบนที่สูง ที่มีผล EKG และ FBS or HbA1C - Medical Certificate for fit test Respirator: ผู้รับรองแพทย์ที่มีผล Chest X-ray (เลขนัยสำคัญ) และ Spirometry (ประจำปี)	1. EHS Induction and IIF Orientation and 2. Confined space Entry or 3. Work at height	4 calendar months for Confined space and Working At height, 1 calendar year for Respirator	4 calendar conths for Confined space and Working At height, 1 calendar year for Respirator	Person who get involve in following activities: - Confined Space Entry, - Working at height or - Person who need wearing half face mask, fullface mask	The certification sticker will remain valid for a period of four calendar months. As a result, each certification sticker will expire at the end of April, August, and December respectively for Confined Space Entry, Working at height
10	Safety Officer (All level)	EHS Competency	3. Verify Certificate	N/A	-	N/A	Pintusorn W. (EP/52C1)	1.Safety Officer Professional Level Certificate, or 2.Safety Officer - Advance Technical Level Certificate, or 3.Safety Officer - Technical Level Certificate, or 4.Safety Officer - Supervisor Level Certificate, or	1. EHS Induction and IIF Orientation	Lifetime	None	All level of Safety Officer	
11	Flange tightening	Maintenance Competency and Skill	4. Training & Test	Online Test	2	50	Wansarn N. (AS/13)	No Document Required	1. EHS Induction and IIF Orientation	-	Every 2 years	Personnel performing flange assembly activities shall have passed the flange tightening training program	Personnel responsible only for pipe fit up. * Pipe welding are not required to complete the flange tightening program

12	Work at height	Maintenance Competency and Skill	3. Verify Certificate	N/A	-	N/A	Thanit L. (AS/122)	Working at height certificate	1. EHS Induction and IIF Orientation	Certificated by Training provider (life time) or In-house(contractor) training	Every 2 years	Any person who need to wear Full body harness (FBH) such as working on Yellow tag scaffolding, climbing ladder that required FBH	*In-house training is accepted and training materials from the provider must be reviewed by Thanit L. (thanitl@sprc.co.th)
13	SPRC Basic Scaffolding	Maintenance Competency and Skill	2. Verify Certificate Training & Test	Online Test	2	50	Kittirach L. (AS/132)	1.Working at height certificate 2.Scaffolding Competency Certificate	1. EHS Induction and IIF Orientation	2 years	Every 2 years	Scaffolder	
14	Crane operation, Lifting and rigging	Maintenance Competency and Skill	2. Verify Certificate Training & Test	ID Scan Check-in	2	50	Theerapong C. (AS/114)	Crane operator certification or Rigger certification	1. EHS Induction and IIF Orientation	2 years	Every 2 years	Crane Operation, Lifting And Rigging Team	
15	Flagman	Maintenance Competency and Skill	5. Only Training	ID Scan Check-in	1	50	Theerapong C. (AS/114)	No Document Required	1. EHS Induction and IIF Orientation	None	Every 2 years	Flagman	
16	Forklift Operation	Maintenance Competency and Skill	2. Verify Certificate Training & Test	ID Scan Check-in	1.5	15	Theerapong C. (AS/114)	Forklift operator certification	1. EHS Induction and IIF Orientation	Lifetime	Every 2 years	Forklift Operation	
17	Vacuum truck Operation	Maintenance Competency and Skill	2. Verify Certificate Training & Test	ID Scan Check-in	1.5	50	Theerapong C. (AS/114)	Driver license Class IV (ใบอนุญาตขับรถ ๓.4)	1. EHS Induction and IIF Orientation	3 years	Every 2 years	Vacuum Truck Operation	
18	SPRC Standard Practice Training for Mechanical Supervisor & QC	Maintenance Competency and Skill	4. Training & Test	Online Test	3.5	30	Kittitad A. (IR/14)	No Document Required	1. EHS Induction and IIF Orientation	None	Only new comer	QA/QC Supervisor & QC Engineer	
19	Fuel Refill Truck Driver	Maintenance Competency and Skill	3. Verify Certificate	N/A	-	N/A	Theerapong C. (AS/114)	Driver license Class IV (ใบอนุญาตขับรถ ๓.4)	1. EHS Induction and IIF Orientation	3 years	None	Fuel Refill Truck Driver	
20	Blasting & Painting	Maintenance Competency and Skill	3. Verify Certificate	N/A	-	N/A	Suriya W.(AS/131)	Blasting & Painting Training Certificate as specific applications	1. EHS Induction and IIF Orientation	2 years	Every 2 years	Blasting & Painting Specify by type (Contractor Internal Training) 1. Belzona Protective Coating 2. Chartek Fireproof 3. General Blasting & Painting	
21	High Pressure Water Jet Work	Maintenance Competency and Skill	3. Verify Certificate	N/A	-	N/A	Suriya W.(AS/131)	High Pressure Water Jet Work Certificate	1. EHS Induction and IIF Orientation	2 years	Every 2 years	High Pressure Water Jet Work Level 1 Overall/ Helper Level 2 Supervisor/ Foreman/ Operator/ Robot-Pump controller Level 3 Engineer	
22	Catalyst Handling	Maintenance Competency and Skill	3. Verify Certificate	N/A	-	N/A	Suriya W.(AS/131)	Certified level for inert entry level Depend on working inert hour Level 1 less than 50 hrs. Level 2 >50 hrs. Level 3 >100 hrs.	1. EHS Induction and IIF Orientation	2 years	Every 2 years	Person take role as a Panel Operator, valve operator, standby man, Catalys loading man, BA technician, or Drum tipper operator	

ภาคผนวก ข.1-5

ใบขออนุญาตทำงาน (Work Permit) สำหรับงานก่อสร้าง



ตัวอย่างเอกสาร Confined Space Entry Permit



Type

:

Confined Space Entry Permit

Number

:

0-1#83089

State

:

Closed



Title:

TA26-16PDV122-Cleaning, Remove, Inspection & Repair-JSEA-Somporn P.-CBI-CH26

Work Description:

"- Ventilation
- Install/Modify internal scaffold
- Use lighting
- Internal cleaning
- Inspection
- Gouging/Grinding remove internal part
- Cutting/Grinding remove tack weld bolt
- Loose bolts & remove Internal part
- Chipping damage refractory
- Machine seat plate
- Grinding and welding repair internal part
- Drill & tapping bolt hole of seat plate
- Welding V-anchor
- NDE
- Apply new refractory
- Replace gasket selcoseal
- Re-install internal part
- Tack weld internal bolt
- Final inspection"

Permit Details

Site:

SPRC Refinery

Joint Site Visit Required:

No

Planned Start Date:

04 Feb 2026

Planned End Date:

10 Feb 2026

Location(s):

A4 - RFCCU 2

Equipment:

1ST STAGE REGENERATOR (1001-16C102)
REGENERATORS 16C-102 16C-103 (16PDV122)

Tools/Equipment to be used:

Hand tools, Air Tools, Electrical tools. Welding/Gouging tools, Welding Machine, Grinding tools, Drill & tapping tools, Lighting, Machine tool

Lead Discipline:

Mechanical

Company Doing Work:

CBI (THAILAND) CO., LTD.

No. of Workers:

7

Isolation Plan Required:

Full

Substance Measurements

Gas Tester	Date	Substance	Value	Remarks
	11 Feb 2026 06:31	% LEL	0.000	
	11 Feb 2026 06:31	O2 (%VOL)	21.000	
	11 Feb 2026 06:31	H2S (ppm)	0.000	
	11 Feb 2026 06:31	CO (ppm)	0.000	
	10 Feb 2026 13:23	O2 (%VOL)	21.000	



Type

:

Confined Space Entry Permit

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	10 Feb 2026 13:23	H2S (ppm)	0.000
	10 Feb 2026 13:23	% LEL	0.000
	10 Feb 2026 13:23	CO (ppm)	0.000
	10 Feb 2026 13:11	O2 (%VOL)	20.900
	10 Feb 2026 13:11	% LEL	0.000
	10 Feb 2026 13:11	CO (ppm)	0.000
	10 Feb 2026 13:11	H2S (ppm)	0.000
	10 Feb 2026 07:47	O2 (%VOL)	20.900
	10 Feb 2026 07:47	CO (ppm)	0.000
	10 Feb 2026 07:47	H2S (ppm)	0.000
	10 Feb 2026 07:47	% LEL	0.000
	10 Feb 2026 06:46	O2 (%VOL)	20.800
	10 Feb 2026 06:46	% LEL	0.000
	10 Feb 2026 06:46	CO (ppm)	0.000
	10 Feb 2026 06:46	H2S (ppm)	0.000
	09 Feb 2026 12:47	O2 (%VOL)	20.900
	09 Feb 2026 12:47	% LEL	0.000
	09 Feb 2026 12:47	CO (ppm)	0.000
	09 Feb 2026 12:47	H2S (ppm)	0.000
	09 Feb 2026 07:44	O2 (%VOL)	20.900
	09 Feb 2026 07:44	% LEL	0.000
	09 Feb 2026 07:44	H2S (ppm)	0.000
	09 Feb 2026 07:44	CO (ppm)	0.000
	09 Feb 2026 06:39	O2 (%VOL)	20.900
	09 Feb 2026 06:39	% LEL	0.000
	09 Feb 2026 06:39	CO (ppm)	0.000
	09 Feb 2026 06:39	H2S (ppm)	0.000
	08 Feb 2026 12:45	O2 (%VOL)	20.900
	08 Feb 2026 12:45	H2S (ppm)	0.000
	08 Feb 2026 12:45	% LEL	0.000
	08 Feb 2026 12:45	CO (ppm)	0.000
	08 Feb 2026 07:33	O2 (%VOL)	20.800



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08 Feb 2026 07:33	% LEL	0.000
08 Feb 2026 07:33	H2S (ppm)	0.000
08 Feb 2026 07:33	CO (ppm)	0.000
08 Feb 2026 00:56	O2 (%VOL)	20.800
08 Feb 2026 00:56	% LEL	0.000
08 Feb 2026 00:56	H2S (ppm)	0.000
08 Feb 2026 00:56	CO (ppm)	0.000
07 Feb 2026 19:16	H2S (ppm)	0.000
07 Feb 2026 19:16	% LEL	0.000
07 Feb 2026 19:16	CO (ppm)	0.000
07 Feb 2026 19:16	O2 (%VOL)	20.800
07 Feb 2026 12:49	O2 (%VOL)	21.000
07 Feb 2026 12:49	H2S (ppm)	0.000
07 Feb 2026 12:49	% LEL	0.000
07 Feb 2026 12:49	CO (ppm)	0.000
07 Feb 2026 06:31	O2 (%VOL)	20.900
07 Feb 2026 06:31	% LEL	0.000
07 Feb 2026 06:31	H2S (ppm)	0.000
07 Feb 2026 06:31	CO (ppm)	0.000
07 Feb 2026 01:20	O2 (%VOL)	20.900
07 Feb 2026 01:20	% LEL	0.000
07 Feb 2026 01:20	H2S (ppm)	0.000
07 Feb 2026 01:20	CO (ppm)	0.000
06 Feb 2026 18:59	O2 (%VOL)	20.900
06 Feb 2026 18:59	% LEL	0.000
06 Feb 2026 18:59	H2S (ppm)	0.000
06 Feb 2026 18:59	CO (ppm)	0.000
06 Feb 2026 12:41	O2 (%VOL)	20.900
06 Feb 2026 12:41	% LEL	0.000
06 Feb 2026 12:41	CO (ppm)	0.000
06 Feb 2026 12:41	H2S (ppm)	0.000
06 Feb 2026 07:47	O2 (%VOL)	21.000

Closed



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06 Feb 2026 07:47	H2S (ppm)	0.000
06 Feb 2026 07:47	% LEL	0.000
06 Feb 2026 07:47	CO (ppm)	0.000
06 Feb 2026 06:31	O2 (%VOL)	20.900
06 Feb 2026 06:31	H2S (ppm)	0.000
06 Feb 2026 06:31	% LEL	0.000
06 Feb 2026 06:31	CO (ppm)	0.000
06 Feb 2026 01:19	O2 (%VOL)	20.800
06 Feb 2026 01:19	H2S (ppm)	0.000
06 Feb 2026 01:19	% LEL	0.000
06 Feb 2026 01:19	CO (ppm)	0.000
05 Feb 2026 18:47	O2 (%VOL)	20.900
05 Feb 2026 18:47	% LEL	0.000
05 Feb 2026 18:47	H2S (ppm)	0.000
05 Feb 2026 18:47	CO (ppm)	0.000
05 Feb 2026 13:00	O2 (%VOL)	20.900
05 Feb 2026 13:00	% LEL	0.000
05 Feb 2026 13:00	H2S (ppm)	0.000
05 Feb 2026 13:00	CO (ppm)	0.000
05 Feb 2026 10:15	O2 (%VOL)	20.900
05 Feb 2026 10:15	H2S (ppm)	0.000
05 Feb 2026 10:15	% LEL	0.000
05 Feb 2026 10:15	CO (ppm)	0.000
05 Feb 2026 07:35	O2 (%VOL)	21.000
05 Feb 2026 07:35	% LEL	0.000
05 Feb 2026 07:35	CO (ppm)	0.000
05 Feb 2026 07:35	H2S (ppm)	0.000
05 Feb 2026 00:34	% LEL	0.000
05 Feb 2026 00:34	CO (ppm)	0.000
05 Feb 2026 00:34	H2S (ppm)	0.000
05 Feb 2026 00:34	O2 (%VOL)	20.800
04 Feb 2026 19:27	O2 (%VOL)	20.900

Closed



	04 Feb 2026 19:27	H2S (ppm)	0.000
	04 Feb 2026 19:27	% LEL	0.000
	04 Feb 2026 19:27	CO (ppm)	0.000
	04 Feb 2026 06:35	O2 (%VOL)	20.900
	04 Feb 2026 06:35	% LEL	0.000
	04 Feb 2026 06:35	H2S (ppm)	0.000
	04 Feb 2026 06:35	CO (ppm)	0.000

Signature History

Signature	Signee	Date	Company	Remarks
Close by Permit Issuer		17 Feb 2026 09:28	SPRC	
Closing by Permit Holder		16 Feb 2026 21:48	CBI (THAILAND) CO., LTD.	
Suspend for Revalidation by Permit Issuer		10 Feb 2026 18:26	SPRC	
Suspend by Permit Holder		10 Feb 2026 17:54	CBI (THAILAND) CO., LTD.	
Gas Test by Gas Tester		10 Feb 2026 13:23	SPRC	
Gas Test by Gas Tester		10 Feb 2026 13:11	SPRC	

Risk Assessments

Hazard (Group)	Control Measure	Prereq.	Action Party
See JSEA in Attach file			



Permit - 0-1#83089

Confined Space	Confined space and Inert Confined Space Entry Checklist		
Confined Space Entry Requirements	Yes	No	N/A
Hole Watch (Please specified name of hole watcher) ๓ มีผู้เฝ้าระวัง (โปรดระบุชื่อ)	☒	☐	☐
Remarks			
Board for hanging personnel's ID badge at entry point ๓ กระดานสำหรับแขวนบัตรหน้าทางเข้าที่อับอากาศ	☒	☐	☐
Air movers ๓ เครื่องดูดอากาศ	☒	☐	☐
The rescue plan has been approved ๓ จัดให้มีแผนช่วยเหลือฉุกเฉิน	☐	☐	☒
Warning signs are displayed at every access point to a confined space ๓ มีป้ายเตือน " ที่อับอากาศ อันตราย ห้ามเข้า" ติดที่ทางเข้าออกทุกจุด	☒	☐	☐
All personnel have medical certification specific for confined space entry ๓ มีใบรับรองแพทย์สำหรับทางเข้าพื้นที่อับอากาศ	☒	☐	☐
Portable continuous area gas monitor ๓ เครื่องวัดแก๊สแบบต่อเนื่อง	☒	☐	☐
Personal gas test with portable gas detector with 4 cell ๓ เครื่องวัดแก๊สส่วนบุคคลชนิด 4 เซลล์	☒	☐	☐
Low voltage lighting required 24/42 ๓ ใช้ไฟส่องสว่าง 24/42 โวลต์	☒	☐	☐
Temperature at safe limit (40 C) in case confined space activity ๓ อุณหภูมิไม่เกิน 40 องศา กรณีทำงานในที่อับอากาศ	☒	☐	☐
Inert Confined Space Entry Requirments	Yes	No	N/A
Verify that the positive isolation of equipment is in place, and is validated against Equipment Isolation checklist ๓ ตรวจสอบแล้วว่าได้ตัดแยกพลังงานอุปกรณ์อย่างปลอดภัยแล้ว และมีการตรวจสอบเทียบกับรายการเอกสาร Isolation Confirmation Certificate	☒	☐	☐
Verify that a inert working zone has a soft barricade and "Inert Entry" signs restricting access of non-essential personnel – minimum 1.5m radius (A) ๓ ตรวจสอบว่าบริเวณทำงานเกี่ยวข้องกับก๊าซเฉื่อยมีการปิดกั้นพื้นที่ พร้อมติดป้ายเตือน "Inert Entry" และจำกัดการเข้าถึงในรัศมีอย่างน้อย 1.5 ม. สำหรับบุคคลที่ไม่เกี่ยวข้อง	☐	☐	☒
Confirm any venting location of inert gases (vents/PSV, dump nozzle) in areas of potential human traffic are barricaded with a minimum of 1.5 m (B) ๓ ยืนยันว่าจุดระบายก๊าซเฉื่อย จากจุดปล่อย ถูกกั้นพื้นที่ไว้แล้วอย่างน้อย 1.5 เมตร	☐	☐	☒
Confirm that Primary nitrogen supply is locked open. Secondary source of inert gas (Back up) is on standby and ready to deploy (If required) ๓ ยืนยันว่าถังไนโตรเจนหลักถูกเปิด และมีถังสำรองพร้อมใช้หากจำเป็น	☐	☐	☒
The rescue plan has been approved and equipment is ready ๓ แผนช่วยเหลือได้รับการอนุมัติและเตรียมพร้อม	☐	☐	☒
Confirm lighting systems are low voltage, explosion proof and supplied by ELCB power source. Transformers are outside vessel ๓ ระบบแสงสว่างเป็นแรงดันต่ำ ป้องกันระเบิด และจ่ายไฟฟ้า ELCB โดยหม้อแปลงตั้งอยู่นอกถัง	☐	☐	☒
If wire rope (Jacobs) ladders are approved for use on this entry, ensure that guideline for using of wire rope are applied. (NA = Not using wire rope ladder) ๓ หากใช้บันไดเชือก(Jacobs ladder) ให้ใช้ตามข้อกำหนด (หากไม่ใช้ให้ระบุ ว่า ไม่เกี่ยวข้อง)	☐	☐	☒
Confirm that air cylinders are configured in a manner that no cylinder changes are required while workers are wearing B/A (C) ๓ ถังอากาศถูกจัดวางอย่างเหมาะสม โดยไม่ต้องเปลี่ยนถังขณะผู้ปฏิบัติงานสวมใส่เครื่องช่วยหายใจ (B/A)	☐	☐	☒
Confirm that supplied air respiratory protection is worn by all personnel within inert working zone and witness testing of breathing air at mask with gas monitor for oxygen levels of 20.9% ±0.5% (D) ๓ อุปกรณ์ช่วยหายใจต้องสวมโดยผู้ปฏิบัติงานทุกคน ตรวจสอบระดับออกซิเจนบนหน้ากากว่าอยู่ที่ 20.9% ±0.5%	☐	☐	☒
Emergency Escape line (EEL)with independent cylinder is staged and ready for use (each entrant must have an independent Escape set including cylinders).(E) ๓ Emergency Escape Line พร้อมถังสำรองถูกจัดเตรียมไว้ครบ (ทุกคนต้องมีอุปกรณ์หนีภัยพร้อมถังสำรอง)	☐	☐	☒
Ensure that only approved equipment is being used and has passed a daily inspection including the Lock on helmet and egress bottle (minimum 5 min) (F) ๓ ใช้อุปกรณ์ที่ได้รับการอนุญาต และผ่านการตรวจสอบรายวัน รวมถึงการล็อกหมวกและถังหนีภัยสำรอง	☐	☐	☒
Each entrant has fall protection equipment and a retrieval system set up as described on rescue plan.(G) ๓ ผู้ปฏิบัติงานแต่ละคนต้องมีอุปกรณ์กันตกและระบบดึงกลับตามแผนช่วยเหลือ	☐	☐	☒
Safety standby is in place with lock on helmet & continuous gas monitor ๓ มีผู้เฝ้าระวังพร้อมหมวกนิรภัยที่ติดถังล็อก และใช้เครื่องตรวจวัดก๊าซต่อเนื่อง	☒	☐	☐
Continuous ambient temperature, audio and video monitoring is in place and is being actively monitored ๓ มีระบบตรวจวัดอุณหภูมิ เสียง และวิดีโอ ทำงานต่อเนื่องและมีการตรวจสอบตลอดเวลา	☐	☐	☒



Permit - 0-1#83089

Prior to entrant setting foot on catalyst bed, confirm that catalyst height at walls of vessel are below knee height. (visual or video confirmation) (H) ☐ ก่อนเหยียบ Catalyst Bed ต้องยืนยันวาระดับ Catalyst รอบผนังถึงต่ำกว่าระดับเข่า (ตรวจสอบด้วยสายตาหรือวิดีโอ) ☐

☐☐☒

Generic Safety

Generic Safety Checklist

Vessel/Equipment Condition Requirements

Equipment Emptied ☐ อุปกรณ์หรือท่อไม่มีสารอันตรายตกค้างภายใน

Equipment Properly drained / vent ☐ อุปกรณ์ทำการปล่อยของเหลวจนหมด

Equipment or Lines water washed ☐ อุปกรณ์หรือท่อถูกทำความสะอาดด้วยน้ำ

Equipment / Vessel Steamed Out ☐ อุปกรณ์หรือภาชนะรับแรงดันผ่านการทำความสะอาดด้วยไอน้ำ

Equipment or line chemical washed ☐ อุปกรณ์หรือท่อผ่านการทำความสะอาดด้วยสารเคมี

Equipment or line N2 purged ☐ ท่อหรืออุปกรณ์ผ่านการทำความสะอาดด้วยไนโตรเจน

Sight glasses steamed ☐ ช่องมองระดับ (sight glasses) ถูกทำความสะอาดด้วยไอน้ำ

Potential for liquid or other residue ☐ อาจมีของเหลวตกค้าง

Electrical system isolated ☐ ระบบไฟฟ้าถูกตัดแยกพลังงาน

Equipment contains demister pads ☐ อุปกรณ์มีราวแผ่นกรองของเหลว

Potential for pyrophoric compounds ☐ อาจมีองค์ประกอบของสารไพโรฟอริก

Potential for elemental mercury ☐ อาจมีองค์ประกอบของสารปรอท

Radiation source isolated ☐ แหล่งกำเนิดรังสีถูกตัดแยก

Excavation 1.5 meters depth or deeper ☐ งานขุดที่ลึกเท่ากับหรือมากกว่า 1.5 เมตร

Fire & Other Safety Protection Requirements

No draining, venting or sampling in area ☐ ไม่ระบาย, ปล่อยหรือเก็บตัวอย่างในบริเวณใกล้เคียง

Fire Watch (Please specified name of fire watch) ☒ มีผู้เฝ้าระวังอัคคีภัย (โปรดระบุชื่อ)

Remarks

Surrounding sewers to be covered within 15M ☐ ปิดครอบท่อระบายบริเวณโดยรอบในรัศมี 15 เมตร

Danger tape and Warning signs posted at entry points ☒ ปิดกั้นพื้นที่ทำงานและป้ายเตือนบริเวณทางเข้า

Fire Extinguisher required at job site ☐ มีถังดับเพลิงที่หน้างาน

Fire Hose at job site & ready ☐ สายดับเพลิงในสภาพพร้อมใช้งาน

First / Final Break Requirements

PPE for Breaking Group 1 (safety glasses, face shield, leather gloves) ☐

PPE for Breaking Group 2 (goggle, face shield, respirator with cartridge 6003/6004, chemical resistant suite, leather and nitrile gloves, operation standby with half face and maintenance standby with half face) ☐

PPE for Breaking Group 3 (safety glasses, face shield, heat resistant suite, heat resistant gloves) ☐

PPE for Breaking Group 4 (goggle, face shield, respirator with cartridge 6003/6009/6096, chemical resistant suite, heat resistant and nitrile gloves, operation standby with half face and maintenance standby with half face) ☐

PPE for Breaking Group 5 (goggle, face shield, respirator with cartridge 6003/6009/6096, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with half face and maintenance standby with half face) ☐

PPE for Breaking Group 6 (SCBA, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with Escape hood and maintenance standby with wear BA/Air line) ☐

[TA26] PPE for Breaking Group 6A (Full face, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with full face and maintenance standby with wear full face) ☐

[TA26] PPE for Breaking Group 6B (SCBA, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with Escape hood and maintenance standby with wear BA/Air line) ☐

Personal Protective Equipment Requirements

☒

☐

☒

Permit - 0-1#83089

หน้า 5

SPRC CONFINED SPACE ENTRY LIST											
DATE: 4-2-19		UNIT: RRCUR		EQUIPMENT NUMBER: 16PDV122		CONFINED SPACE ENTRY PERMIT NUMBER: 83089					
PERSONNEL ENTERING SPACE	4 Gas Number	ID NUMBER	COMPANY	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT
บุคคลที่เข้ามาทำงานในพื้นที่อันตราย	หมายเลข 4 gas	เลขบัตรพนักงาน	บริษัท	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก
		EP04454	CBi	09:15	09:37	19:30	20:00				
		EP07176	CBi	09:40	10:00	10:25	11:10	13:40	13:45	15:00	15:05
		C16852	CBi	10:00	10:25	15:00	16:25				
		C19513	Wilich	15:20	10:25						
		EP04795	CBi	17:20	17:40						
		EP07114	CBi	20:02	20:25						

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ชื่อผู้ให้ใบรับรอง

ชื่อหัวหน้างาน

SPRC CONFINED SPACE ENTRY LIST												
DATE: 5/2/21		UNIT: RECCV		EQUIPMENT NUMBER: 16 PDV122		CONFINED SPACE ENTRY PERMIT NUMBER: 83089						
PERSONNEL ENTERING SPACE	ID NUMBER	COMPANY	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT
บุคคลที่เข้ามาทำงานในพื้นที่อันตราย	เลขบัตรพนักงาน	บริษัท	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก	เวลาเข้า	เวลาออก
	C17319	CBi	21:00	21:11	21:24	21:30	01:16	01:51	03:29	03:35		
	EP 04726	CBi	21:24	21:30	01:52	03:29						
	C17031	ALTRAD	23:19	23:21								
	C0985	CBi	03:30	03:35								
	C9192	CBi	03:41	06:45	01:38	04:42						
	110901	SPRC	04:37	04:38								

Form Number: EHS-FO-QS-2023

ชื่อผู้ให้ใบรับรอง

ชื่อหัวหน้างาน



Job Safety Environmental Analysis (JSEA)



Job information:			
Department	PN	JSEA Number	Area-Equipment No-
Work Description	Hot work in confine space (Cutting/Grinding/Welding/Gouging/Pre-Heat by LPG, PWHT/Use of 220 Volt Lighting Electric Tools) 16E-401/16C-101-104/16C401-402/16F401/16F101-102/16S302/16C105X1-X5/ 16A/BX1-X4 16C107A/BX1-X3/0016-X011-010&030/0016-X044-010/16LV101/ 16PDV121&122/16HV666/16HV651/16HV652/16HV667/16LV494		
Area Affected	Area 4 RFCCU	Project/ MOC/ WO/ TA Number	
Equipment Number	RFCCU	Work Location	Area 4 RFCCU
Company doing work	CBI	Reviewing Date	31/10/2025

JSEA team members:				
Discipline	Company	Name	Signature	Date
Shift Supervisor	SPRC			17/12/25
Operation Coordinator	SPRC			16-12-2025
SPRC Maintenance/Job Supervisor	SPRC			09-Dec-2025
Health & Safety Specialist	SPRC			12 -Nov-2025
Contractor Job Supervisor	CBI			31-Oct2025



Risk assessment:							
Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
1. Obtain SPRC Work Permit รับใบอนุญาตให้ทำงานจากเลตฟิ ลาร์ซี	Chemical	Chemical exposure	Medium	1.1.1 Obtain work permit(s) review and confirm all the requirements are met on the permit. นำใบอนุญาตให้ทำงานที่ได้รับมา ทบทวนและตรวจสอบว่า ปฏิบัติตาม ข้อกำหนดบน ใบอนุญาตครบถ้วน All project activity that related to the existing plant facilities must do reviewing at job site before commencing work. การดำเนินงานทุกอย่างที่เกี่ยวกับแพ ลันท์และสิ่งก่อสร้างที่มีอยู่เดิมจะต้อง ผ่านการทบทวนที่หน้างานก่อนจะเริ่มงาน.	Yes	Permit Holder	Low
2. Entering Confined Space การเข้าไปภายในพื้นที่อับอากาศ	Biological	Fatigue	Medium	2.1.1 Ensure that all workers have had medical checked and fit for working inside confined space area by SPRC Medic / Nurse. ตรวจสอบให้แน่ใจว่า คนงานทุกคนผ่าน การตรวจสุขภาพโดยแพทย์/พยาบาลจาก เอสพีอาร์ซี และมีสมรรถภาพทางกายที่ พร้อมจะเข้าไปทำงานภายในที่อับอากาศ ต้องแจ้งหัวหน้างานหากสุขภาพไม่ พร้อมจะเข้าไปทำงานในที่อับอากาศ	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Confined_Space	Poor ventilation	Medium	2.2.1 Qualified hole watch standby all the time gets the ID of the employee entering and write on the confined space logbook time in – time out. Notify rescue team before start working inside confined space. จัดให้มีผู้เฝ้าระวังผู้ที่ผ่านการอบรมเผ่าตลอด เวลา จดบันทึกข้อมูลเฉพาะของพนักงานที่จะเข้าพื้นที่อื่นอากาศไว้ที่ สมุดบันทึก นอกเวลาเข้าออก ต้องแจ้งหน่วยกู้ชีพให้ทราบว่าจะมีการทำงานที่ด้านในที่อื่นอากาศ	Yes	Permit Holder	Low
	Confined_Space	Poor ventilation	Medium	2.2.2 Provide sufficient light inside confined space. ต้องจัดให้มีไฟส่องสว่างที่เพียงพอสำหรับใช้ที่ด้านในที่อื่นอากาศ	Yes	Permit Holder	Low
	Confined_Space	Poor ventilation	Medium	2.2.3 Gas tester standbys all the time during perform welding to check the oxygen, LEL etc. and support by SPRC operation team. ต้องเตรียมเครื่องตรวจสอบก๊าซไฟพร้อมอยู่ตลอดเวลาที่มีการทำงานเชื่อม เพื่อตรวจวัดค่าออกซิเจน แอลซีแอลสาร รวมถึงการสนับสนุนช่วยเหลือจากฝ่ายปฏิบัติการของเอสพีอาร์ซีด้วย	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Confined_Space	Poor ventilation	Medium	2.2.4 Obtain safe work permit for confined space and hot work. ต้องได้รับใบอนุญาตให้ทำงานสำหรับงานในที่อื่นอากาศและงานฮอตเวิร์ค (งานที่เกิดความร้อนและประกายไฟ)	Yes	Permit Holder	Low
	Confined_Space	Poor ventilation	Medium	2.2.5 Check all safety requirements on permit including gas testing. ตรวจเช็กรายการข้อกำหนดเกี่ยวกับความปลอดภัยที่อยู่ในใบอนุญาตทำงาน รวมถึงการตรวจวัดก๊าซต่างๆด้วย	Yes	Permit Holder	Low
	Confined_Space	Poor ventilation	Medium	2.2.6 Ventilation must running always and require to install tag on Air supply valve to identify this used for confined space. ระบบระบายอากาศต้องทำงานอยู่ตลอดเวลาและต้องแขวนแท็ก (ป้าย) บนวาล์วจ่ายอากาศ เพื่อบ่งชี้ว่า กำลังใช้งานสำหรับที่อื่นอากาศอยู่	Yes	Permit Holder	Low

			Initial Risk		Pre-requisite		

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium	3.1.3 Install fire blanket around inside the nozzle or man way where weld cable go through. ปูผ้ากันสะเก็ดไฟบริเวณรอบๆและด้านในของปลายนท่อหรือบริเวณแนวแนวยึดจุดที่มีการเดินสายเคเบิล (สายไฟ) ผ่าน	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	3.1.4 Install proper grounds in the equipment attaches to SPRC grounding system. ต่อสายดินของอุปกรณ์ต่างๆกับระบบสายดินของเอสพีอาร์ซีอย่างถูกต้อง	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	3.1.5 Add nuts-bolts for grounds machine/equipment point. (Do not used same as designed for tank's equipment support.) ใช้น็อตและหัวน็อตขันเกลียวเพิ่มเพื่อขึ้นกระชับสายดินของเครื่องมต/อุปกรณ์ (ห้ามใช้แบบเดียวกันที่ออกแบบสำหรับอุปกรณ์ของถัง)	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	3.1.6 Grounding resistance not over 25 Ω (ohms). ค่าความต้านทานของการต่อดินต้องมีค่าสูงสุดไม่เกิน 25 โอห์ม (หน่วยวัดความต้านทานไฟฟ้า)	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium	3.1.7 Cords shall not be run through standing water, on wet floors, or other wet areas, elevate if required. ต้องไม่ลากสายไฟผ่านบริเวณที่มีน้ำท่วมขัง พื้นเปียกและ หรือพื้นที่ชื้น หากจำเป็น ต้องยกพื้นให้สูงขึ้น	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	3.2.1 Do not place hands/feet under tools and equipment during set-up. อย่าวางมือหรือเท้าไว้ใต้เครื่องมือและอุปกรณ์ขณะติดตั้ง	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	3.2.2 Wear proper working gloves. สวมใส่ถุงมือชนิดกันขูดของงาน	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	3.2.3 Keep tools in proper containers, tool baskets, etc. จัดเก็บเครื่องมือไว้ในกล่องหรือตะกร้าสำหรับใส่เครื่องมือให้ถูกต้อง	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	3.2.4 Housekeep on a daily basis. จัดเก็บทำความสะอาดพื้นที่ให้เป็นระเบียบทุกวัน	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	3.2.5 Set up spill containment under the generator. วางภาชนะรองกันกระเด็นไว้ใต้เครื่องกำเนิดไฟฟ้า	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
4. Hot Work, Pre-heat by LPG, PWHT and use 220V lighting & Electric tools inside Confined Space งานเชื่อม/ตัดโลหะ (Hot Work), อัน ขึ้นงานด้วยแก๊ส LPG, ทำการอบ คลายความเครียดหลังเชื่อม (PWHT) และใช้ไฟส่องสว่าง 220V พร้อม เครื่องมือไฟฟ้าภายในพื้นที่อับอากาศ	Confined_Space	Fire & explosion	Medium	4.1.1 Air mover must run all the time. เครื่องถ่ายเทอากาศจะต้องทำงานอยู่ตลอดเวลา	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.2 Use organic respirator during welding. สวมใส่หน้ากากออร์แกนิก (หน้ากากป้องกันไอระเหยสารตัวทำละลาย) ในระหว่างที่ทำการเชื่อม	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.3 Gas monitor during welding refer from step 1. ฝ้าตรวจก๊าซโดยอ้างอิงจากขั้นตอนที่ 1	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.4 Remove or protect all flammable/combustible material around the work area. เคลื่อนย้ายหรือปิดคลุมวัสดุที่ไวไฟ/ที่ติดไฟได้รอบๆพื้นที่ที่จะทำงาน	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Confined_Space	Fire & explosion	Medium	4.1.5 Have fire extinguisher and/or fire equipment readily available follow PTW. Standby outside man way. จัดเตรียมถังดับเพลิงและ/หรืออุปกรณ์ดับเพลิงไว้พร้อมใช้งานตามใบอนุญาตทำงาน (PTW) โดยให้มีผู้เฝ้าระวังอยู่บริเวณทางเข้า/ออกของพื้นที่ทำงาน	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.6 Review emergency evacuation procedure with all crews involved. ต้องแจ้งให้ผู้ปฏิบัติงาน งานทุกคนที่เกี่ยวข้องทราบถึงขั้นตอนการอพยพฉุกเฉิน	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.7 CBI Foreman / Supt. standby all the time with radio to advise people if some emergency situation. ซีบีไอโฟร์แมน(หัวหน้าคนงาน)/ผู้ควบคุมงานต้องมีวิทยุสื่อสารและเตรียมพร้อมหยุดตลอดเวลาเพื่อคอยแนะนำผู้ปฏิบัติงานสำหรับกรณีเหตุฉุกเฉิน	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.8 If high %LEL detector alarm, immediately stop any hot work and be inform to Supt, or operator for finding and solved this problem. หากมีเสียงเตือนค่าแอลอีแอลเกิดขึ้น ให้หยุดงานที่มีประกายไฟทันที และรายงานหัวหน้าผู้ควบคุมงานหรือโอเปอเรเตอร์ของเอสพีอาร์ซี เพื่อหาสาเหตุและแก้ไขปัญหา	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Confined_Space	Fire & explosion	Medium	4.1.9 Require firewatcher and LPG cylinder watcher to standby while doing this activity. ขณะที่ทำงานนี้ ต้องมีเจ้าหน้าที่เฝ้าระวังภัยและผู้เฝ้าระวังถังแอลพีจีประจำอยู่ที่พนักงาน	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.10 Remove or protect all flammable/combustible material around the work area. เคลื่อนย้ายหรือปิดคลุมวัสดุที่ไวไฟ/ที่ติดไฟได้รอบๆพื้นที่ที่จะทำงาน	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.11 Ignite torch burner outside confined space. ต้องจุดหัวเผาจากด้านนอกที่อับอากาศเท่านั้น	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.12 LPG hose and cylinder must be in safe and good condition. ถังและสายแก๊สต้องอยู่ในสภาพที่ดีและปลอดภัย	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.13 Require flashback arrestor on gas cylinder and LPG burning torch. ต้องติดอุปกรณ์ป้องกันไฟย้อนกลับที่ตัวถังแก๊สและหัวเผา	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	4.1.14 Require checklist and check for leakage every day before use. ต้องมีใบรายการตรวจเช็คและต้องตรวจสอบการรั่วซึมทุกวันก่อนนำไปใช้งาน	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium	4.2.1 Inspect, test and certify electrical equipment by an approved person. อุปกรณ์ไฟฟ้าทุกชนิดต้องผ่านการตรวจเช็คทดสอบ และรับรองจากผู้ที่ได้รับอนุญาต	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.2 First inspection of tools/electrical equipment by SPRC & CBI electrician. เครื่องมือ/อุปกรณ์ไฟฟ้าทุกชนิดต้องผ่านการตรวจ เช็คโดยช่างไฟฟ้าของเอสพีอาร์ซีและซีบีไอก่อน	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.3 Daily inspection of electrical tools/equipment by CBI electrician. ต้องมีการตรวจเช็คเครื่องมือ/อุปกรณ์ไฟฟ้าที่จะใช้งานทุกวันโดยช่างไฟของซีบีไอ	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.4 Grounding shall be as per SPRC requirements and resistance not exceeding 25 Ω (ohms) ระบบสายดินต้องเป็นไปตามที่เอสพีอาร์ซีกำหนดไว้และค่าความต้านทานของการต่อลงดินต้องมีค่าสูงสุดไม่เกิน 25 โอห์ม (หน่วยวัดความต้านทานไฟฟ้า)	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium	4.2.5 Competent person shall be trained on: ผู้ที่ปฏิบัติงานจะต้องได้รับการฝึกอบรมในเรื่องต่อไปนี้ - To recognize and report system defects. วิธีสังเกตหาจุดบกพร่องของระบบและการทำงานของสิ่งเกิด - To hook up skidded electrical equipment. เชื่อมต่ออุปกรณ์ไฟฟ้าที่ออกแบบมาให้ใช้ร่วมกันได้ - To install receptacles and plugs on single phase 110 or 220v electrical extension cords & tools. การติดตั้งและปลั๊กบนเครื่องมือและสายพ่วงไฟฟ้าแบบเฟสเดียวขนาด 110 หรือ 220 โวลต์	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.6 Approve and certify all electrical conductors and equipment by SPRC. อุปกรณ์และส่วนาไฟฟ้าทุกชนิดต้องผ่านการรับรองและอนุมัติจากเอสพีอาร์ซีก่อนการใช้งาน	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium		Yes	Permit Holder	Low
			Medium		Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium	4.2.9 Do does not use electric power tools in damp or wet locations. Do not run cords through standing water, on wet floors, or other wet areas. ต้องไม่ใช่เครื่องมือไฟฟ้าในบริเวณที่ชื้น และ ต้องไม่เดินสายไฟในบริเวณที่น้ำท่วมขัง ที่ชื้นและ หรือที่เปียก	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.10 Keep cords clear from heat, oil, and sharp edges. ต้องเก็บสายไฟให้พ้นจากความร้อน น้ำมัน และสิ่งที่มีคมต่างๆ	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.11 Use only grounding-type extension cord sets. List and mark cords using for outdoors and use only CBI standard plugs and receptacles. The current-carrying capacity of the conductors in the cord shall meet or exceed the amperage rating of the circuit. ใช้เฉพาะสายต่อพ่วงที่มีสายดินเท่านั้น สายไฟที่จะใช้ภายนอกต้องจดรายการ และทำเครื่องหมายไว้ว่าเป็นสายไฟ สำหรับใช้ภายนอก ใช้ได้รับและปลั๊ก ตามมาตรฐานของซีบีไอ ไลน์ของ สายไฟที่จะใช้ต้องสามารถรองรับหรือมีความต้าน ทานสูงกว่าค่าลิ่งไฟของ กระแสไฟในวงจรที่จะไหลผ่าน	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Electrical	Electric shock	Medium	4.2.12 Do not use cords to tie in a knot nor hoist up a tool. ต้องไม่นำสายไฟไปมัดปมหรือไปใช้ชักรอกเครื่อง มือ	Yes	Permit Holder	Low
	Electrical	Electric shock	Medium	4.2.13 Extension cords must be of continuous length without splices. Replace and repair any cord sets that have exposed wires, cut insulation, loose connections at the plug or receptacle end. If the outer insulation is all that damaged, use epoxy molding to insure proper insulation and moisture resistance. If the inner insulation over the wire conductor is damaged the extension cord shall be removed from service. สายต่อพ่วงต้องใช้สายตามความยาวโดยไม่มีกรต่อ ชุดสายไฟที่มีส่วนที่เป็นสายเปลือย ฉนวนหุ้มฉีกขาด จุดเชื่อมต่อที่ปลั๊กหรือตัวรับหลวม จะต้องมีการเปลี่ยนหรือซ่อมแซม ถ้าฉนวนหุ้มด้านนอกเสีย หายทั้งหมด ต้องใช้สีพอกซีทอลล์ เพื่อใช้เป็นฉนวนหุ้มและป้องกันความชื้นแทน ถ้าฉนวนที่หุ้มแกนด้านในชำรุด ต้องดัดไขงานสายพ่วงต่อ	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Temperature	Heat stress	Medium	4.3.1 BAD WEATHER CONDITION EXISTS, STOP WORK./FOLLOW HEAT STRESS PREVENTION PROGRAM. สภาพอากาศไม่เอื้ออำนวย ให้หยุดงาน / ปฏิบัติตามโปรแกรมป้องกันความเครียดจากความร้อน	Yes	Permit Holder	Low
5. Cleaning, fit-up, grinding & welding in Confined Space ทำความสะอาดรอยต่องานเจียรและแนวเชื่อมในที่สับอากาศ	Motion	Hitting by tools / equipment	Medium	5.1.1 Wearing gloves while performing manual task. สวมถุงมือขณะทำงานที่ต้องใช้มือเป็นหลัก	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	5.1.2 Keep hands away from pinched point. ระวังมือให้อยู่ห่างจากจุด หมิ่นกระแทก	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	5.1.3 Walk through inspection to take place to ensure access and egress is suitable and free from obstructions. ต้องมีการเดินตรวจสอบ อย่างละเอียด เพื่อให้เห็นใจว่า ทางเข้าและทางออกมีความ เหมาะสม และปลอดภัยสิ่ง กีดขวาง	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	5.1.4 Use proper PPE such as face shield and goggle. ใช้อุปกรณ์ที่ฟิตตามที่กำหนดไว้ เช่น กระบังหน้าและแว่นครอบดวงตา	Yes	Permit Holder	Low
	Motion	Hitting by tools / equipment	Medium	5.1.5 Require goggles and face shield. จะต้องสวมใส่กระบังหน้าและแว่นครอบดวงตา	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Motion	Hitting by tools / equipment	Medium	5.1.6 Install fire blanket for protection. ติดตั้งผ้ากันไฟเพื่อป้องกันภัย	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	High	5.2.1 Provide fire extinguisher and Fire watchman full time. Hot work welding sparks must be contained by the use of fire Blankets. จัดเตรียมถังดับเพลิงและเจ้าหน้าที่เฝ้าระวังไฟตลอดเวลา โดยประกายไฟจากงานเชื่อมต้องถูกควบคุมด้วยการใช้ผ้ากันไฟ	Yes	Permit Holder	Low
	Confined_Space	Fire & explosion	Medium	5.2.2 Ensure that the workers wear proper PPE and that flammable material is stored away from work area. ตรวจสอบให้มั่นใจว่า คนงานสวมใส่อุปกรณ์พีพีอีที่เหมาะสม และจัดเก็บวัสดุไวไฟไว้ห่างจากพื้นที่ปฏิบัติงาน	Yes	Permit Holder	Low
	Chemical	Chemical exposure	Medium	5.3.1 Require wearing organic respirator. สวมหน้ากากกันไอระเหย/ควัน	Yes	Permit Holder	Low
	Chemical	Chemical exposure	Medium	5.3.2 Use O2/LEL meter (Standard 4-Gas) to monitor area on full time basis. Daily Bump-Test. Secure work and evacuate area if LEL exceeds safe level of 10% or more.	Yes	Permit Holder	Low
	Sound	High noise	Medium	5.4.1 Use of hearing protection at all times. สวมใส่อุปกรณ์ป้องกันเสียงดังตลอดเวลา	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
6. Housekeeping การดูแลความสะอาดและความเป็นระเบียบเรียบร้อย	Environment	Waste	Medium	6.1.1 Not allowed to dump or accumulate any garbage or trash. ห้ามทิ้งหรือสะสมขยะหรือเศษวัสดุใด ๆ ในพื้นที่	Yes	Permit Holder	Low
	Motion	Slip, trip, fall hazards	Medium	6.1.2 Materials will be stored or placed in an orderly manner. วัสดุอุปกรณ์ต่างๆต้องจัดเก็บ หรือวางไว้ให้เป็นระเบียบ	Yes	Permit Holder	Low
	Motion	Slip, trip, fall hazards	Medium	6.1.4 Electric welding leads, cords, wires, electrical cable, hoses and other temporary material will be kept off the walking surface. หัวจันลวดเชื่อมไฟฟ้าสายไฟ ลวด สายเคเบิล สายลม และวัสดุต่างๆที่ใช้ชั่วคราวต้องเก็บให้พ้นออกพื้นที่เป็นเส้นทางเดิน	Yes	Permit Holder	Low

Task	Hazard	Hazard Identify	Initial Risk	Control Measure	Pre-requisite	Action party	Residual risk
	Confined_Space	Oxygen deficiency	High	6.1.5 Before shutdown ventilation and relevant equipment. The Hole Watch and Supervisor must confirm verification with Firewatch that all person have exited from confined space ก่อนปิดระบบระบายอากาศ ผู้เฝ้าระวัง และหัวหน้างานจำเป็นต้องทำการตรวจสอบยืนยันให้แน่ชัดกับ Fire Watch หรือ ผู้ควบคุมเครื่องจ่ายไฟให้ระบบระบายอากาศ ว่าทุกคนออกมาจากที่อื่นแล้ว No shutdown Ventilation System and Generator without confirmation from Hole Watch and Supervisor ห้ามทำการปิดเครื่องระบบระบายอากาศ รวมทั้งเครื่องจ่ายไฟฟ้าแก่ระบบหากไม่ได้รับการยืนยันจากผู้เฝ้าระวังและหัวหน้างาน	Yes	Permit Holder	Low



ตัวอย่างเอกสาร Cold Work Permit



Type : Cold Work Permit
Number : 0-1#88050
State : Closed



Title: TA26-A1-Install Modify Remove scaffolding support TA26 (Inthuon/CR3/SCF/Insu/ 7688)
Work Description: -TA26-A1 Install Modify Scaffolding
"Scope of work
-Install scaffolding and remove insulation
-Remove valve 02HV147 6""-1 ea to work shop
-Repalce new valve
-Install valve to unit and bolt torque
-Confirm discharge pump alignment (02G104A)
-Function test with actuator
-Final and reinstatement"

Permit Details

Site: SPRC Refinery
Joint Site Visit Required: No
Planned Start Date: 24 Feb 2026
Planned End Date: 20 Mar 2026
Location(s): A1 - CDU/VDU 3
Equipment: Collumn 5-31
Finfan
Tools/Equipment to be used: hand tool / safety harness
Lead Discipline: Scaffold
Company Doing Work: CR3 (THAILAND) CO., LTD.
No. of Workers: 30
Isolation Plan Required: None

Signature History

Signature	Signee	Date	Company	Remarks
Close by Permit Issuer		26 Mar 2026 18:17	SPRC	
Closing by Permit Holder		26 Mar 2026 08:07	CR3 (THAILAND) CO., LTD.	
Suspend for Revalidation by Permit Issuer		25 Mar 2026 18:05	SPRC	
Suspend by Permit Holder		25 Mar 2026 15:57	CR3 (THAILAND) CO., LTD.	
Reaccept by Permit Holder		25 Mar 2026 08:00	CR3 (THAILAND) CO., LTD.	



Type : Cold Work Permit
Number : 0-1#88050
State : Closed



Reissue by Permit Issuer 25 Mar 2026 07:57 SPRC
Suspend for Revalidation by Permit Issuer 24 Mar 2026 16:13 SPRC
Suspend by Permit Holder 24 Mar 2026 15:15 CR3 (THAILAND) CO., LTD.
Reaccept by Permit Holder 24 Mar 2026 07:51 CR3 (THAILAND) CO., LTD.



Hazard (Group)	Control Measure	Prereq.	Action Party
อุปกรณ์วางหลนจากที่สูง	การส่งอุปกรณ์ชิ้นแ่งโดยบุคคลต่อบุคคล ต้องมีจำนวนคนพอเพียงกับความสูงของงานและการให้สัญญาณการส่งและรับด้วยการบิตซ์มือรวมถึงมีหัวหน้าทีมเป็นแควบคุมงานตลอดเวลา		Closed



Generic Safety	Generic Safety Checklist		
Vessel/Equipment Condition Requirements - ජනවාරි ෨෦෨෪			
	Yes	No	N/A
Equipment Emptied ❶ อุปกรณ์หรือท่อไม่มีสารอันตรายตกค้างภายใน	☐	☐	☒
Equipment Properly drained / vent ❷ อุปกรณ์ทำการปล่อยของเหลวจนหมด	☐	☐	☒
Equipment or Lines water washed ❸ อุปกรณ์หรือท่อถูกทำความสะอาดด้วยน้ำ	☐	☐	☒
Equipment / Vessel Steamed Out ❹ อุปกรณ์หรือภาชนะรับแรงดันผ่านการทำความสะอาดไอน้ำ	☐	☐	☒
Equipment or line chemical washed ❺ อุปกรณ์หรือท่อผ่านการทำความสะอาดสารเคมี	☐	☐	☒
Equipment or line N2 purged ❻ ท่อหรืออุปกรณ์ผ่านการทำความสะอาดไนโตรเจน	☐	☐	☒
Sight glasses steamed ❼ ช้อนมองระดับ (sight glasses) ถูกทำความสะอาดไอน้ำ	☐	☐	☒
Potential for liquid or other residue ❽ อาจมีของเหลวตกค้าง	☐	☐	☒
Electrical system isolated ❾ ระบบไฟฟ้าถูกตัดแยกพลังงาน	☐	☐	☒
Equipment contains demister pads ❿ อุปกรณ์บรรจุแผ่นกรองของเหลว	☐	☐	☒
Potential for pyrophoric compounds ⓫ อาจมีองค์ประกอบของสารไพโรฟอริก	☐	☐	☒
Potential for elemental mercury ⓬ อาจมีองค์ประกอบของสารปรอท	☐	☐	☒
Radiation source isolated ⓭ แหล่งกำเนิดรังสีถูกตัดแยก	☐	☐	☒
Excavation 1.5 meters depth or deeper ⓮ งานขุดที่ลึกเท่ากับหรือมากกว่า 1.5 เมตร	☐	☐	☒
First / Final Break Requirements			
	Yes	No	N/A
PPE for Breaking Group 1 (safety glasses, face shield, leather gloves)	☐	☐	☒
PPE for Breaking Group 2 (goggle, face shield, respirator with cartridge 6003/6004, chemical resistant suite, leather and nitrile gloves, operation standby with half face and maintenance standby with half face)	☐	☐	☒
PPE for Breaking Group 3 (safety glasses, face shield, heat resistant suite, heat resistant gloves)	☐	☐	☒
PPE for Breaking Group 4 (goggle, face shield, respirator with cartridge 6003/6009/6096, chemical resistant suite, heat resistant and nitrile gloves, operation standby with half face and maintenance standby with half face)	☐	☐	☒
PPE for Breaking Group 5 (goggle, face shield, respirator with cartridge 6003/6009/6096, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with half face and maintenance standby with half face)	☐	☐	☒
PPE for Breaking Group 6 (SCBA, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with Escape hood and maintenance standby with wear BA/Air line	☐	☐	☒
[TA26] PPE for Breaking Group 6A (Full face, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with full face and maintenance standby with wear full face	☐	☐	☒
[TA26] PPE for Breaking Group 6B (SCBA, chemical resistant suite, leather and nitrile/PVA gloves, operation standby with Escape hood and maintenance standby with wear BA/Air line	☐	☐	☒
Fire & Other Safety Protection Requirements - ජනවාරි ෨෦෨෪			
	Yes	No	N/A
No draining, venting or sampling in area ❶ ไม่ระบาย, ปล่อยหรือเก็บตัวอย่างในบริเวณใกล้เคียง	☐	☐	☒
Fire Watch (Please specified name of fire watch) ❷ มีผู้เฝ้าระวังอัคคีภัย (โปรดระบุชื่อ)	☐	☐	☒
Surrounding sewers to be covered within 15M ❸ ปิดครอบท่อระบายน้ำโดยรอบในรัศมี 15 เมตร	☐	☐	☒
Danger tape and Warning signs posted at entry points ❹ ปิดกั้นพื้นที่ทำงานและป้ายเตือนบริเวณทางเข้า	☒	☐	☐
Fire Extinguisher required at job site ❺ มีถังดับเพลิงที่หน้างาน	☐	☐	☒
Fire Hose at job site & ready ❻ สายดับเพลิงในสภาพพร้อมใช้งาน	☐	☐	☒
Personal Protective Equipment Requirements - ජනවාරි ෨෦෨෪			
	Yes	No	N/A
Standard PPE ❶ อุปกรณ์ป้องกันส่วนบุคคลขั้นพื้นฐาน	☐	☐	☒
Safety harness full body ❷ สายนิรภัยชนิดพวงลำตัว	☐	☐	☒
Goggles ❸ แว่นครอบตา	☐	☐	☒
Face Shield ❹ กระบังหน้า	☐	☐	☒
Ear protection ❺ อุปกรณ์ป้องกันการใช้ยิน	☒	☐	☐
Dust Respirator ❻ หน้ากากป้องกันฝุ่น	☐	☐	☒



Permit - 0-1#88050

Organic vapor respirator ๕ หน้ากากป้องกันการระเหยออร์แกนิก	☐	☐	☒
Selfe Contained breathing apparatus (SCBA) ๕ เครื่องช่วยหายใจชนิดถังอัดอากาศติดตัว	☐	☐	☒
Rubber boots ๕ รองเท้าบูทยาง	☐	☐	☒
Chemical resistant suit ๕ ชุดป้องกันสารเคมี	☐	☐	☒
Chemical resistant gloves ๕ ถุงมือป้องกันสารเคมี	☐	☐	☒
Heat resistant apron ๕ ชุดเชิ้มนป้องกันความร้อน แขนยาว และถุงมือ	☐	☐	☒
Life jackets ๕ เสื้อชูชีพ	☐	☐	☒
Other(require specified detail) ๕ อื่นๆ (โปรดระบุ)	☐	☐	☒



ตัวอย่างเอกสาร Hot Work Permit



Type : Hot Work Permit

Number : 0-1#88544

State : Closed



Title:TA26-TE6254-A2A _CIVIL WORK (PLANT 05) - JSEA #Jirapat K. - UCS/0994175440

Work Description:

- งานสกัดคอนกรีตด้วยสว่านไฟฟ้า และสกัดไฟฟ้า

- งานเจาะเลียนเหล็กม ผูกเหล็ก, เข้าแบบ

- งานผสมคอนกรีต

- งานปูนกร้าด้วยสว่าน

- งานเทคอนกรีต

- งานรื้อแบบ

- งานติดตั้งกริดด้วยหินเจียร

- ซัด เจียรแต่งผิว ฉาบสัณผิว

Permit Details

Site:SPRC Refinery

Joint Site Visit Required:No

Planned Start Date:27 Feb 2026

Planned End Date:05 Mar 2026

Location(s):A2A - Platformer/CCR 2

Equipment:HEAVY REFORMATE PUMP #A (1001-05G101A)
HEAVY REFORMATE PUMP #B (1001-05G101B)

Tools/Equipment to be used:

- Hand tools

- สกัดไฟฟ้า

- กริด

- สว่านไฟ

- เลื่อยวงเดือน

- Hammer Drill

- Submersible Pump (โดโว) / Air Blower (Bovo)

Lead Discipline:Civils

Company Doing Work:AS.FIRST CO., LTD.

No. of Workers:15

Isolation Plan Required:None

Substance Measurements

Gas Tester	Date	Substance	Value	Remarks
	04 Mar 2026 13:48	O2 (%VOL)	21.000	
	04 Mar 2026 13:48	% LEL	0.000	
	04 Mar 2026 13:48	CO (ppm)	0.000	
	04 Mar 2026 13:48	H2S (ppm)	0.000	
	04 Mar 2026 07:29	O2 (%VOL)	21.000	
	04 Mar 2026 07:29	% LEL	0.000	
	04 Mar 2026 07:29	CO (ppm)	0.000	
	04 Mar 2026 07:29	H2S (ppm)	0.000	



Type : Hot Work Permit

Number : 0-1#88544

State : Closed



	03 Mar 2026 13:39	O2 (%VOL)	21.000
	03 Mar 2026 13:39	% LEL	0.000
	03 Mar 2026 13:39	CO (ppm)	0.000
	03 Mar 2026 13:39	H2S (ppm)	0.000
	03 Mar 2026 07:37	O2 (%VOL)	21.000
	03 Mar 2026 07:37	% LEL	0.000
	03 Mar 2026 07:37	CO (ppm)	0.000
	03 Mar 2026 07:37	H2S (ppm)	0.000
	02 Mar 2026 13:47	CO (ppm)	0.000
	02 Mar 2026 13:47	H2S (ppm)	0.000
	02 Mar 2026 13:47	% LEL	0.000
	02 Mar 2026 13:47	O2 (%VOL)	21.000
	02 Mar 2026 08:24	O2 (%VOL)	21.000
	02 Mar 2026 08:24	% LEL	0.000
	02 Mar 2026 08:24	H2S (ppm)	0.000
	02 Mar 2026 08:24	CO (ppm)	0.000
	01 Mar 2026 12:51	O2 (%VOL)	21.000
	01 Mar 2026 12:51	% LEL	0.000
	01 Mar 2026 12:51	H2S (ppm)	0.000
	01 Mar 2026 12:51	CO (ppm)	0.000
	01 Mar 2026 08:03	O2 (%VOL)	21.000
	01 Mar 2026 08:03	% LEL	0.000
	01 Mar 2026 08:03	CO (ppm)	0.000
	01 Mar 2026 08:03	H2S (ppm)	0.000
	28 Feb 2026 12:48	O2 (%VOL)	21.000
	28 Feb 2026 12:48	% LEL	0.000
	28 Feb 2026 12:48	H2S (ppm)	0.000
	28 Feb 2026 12:48	CO (ppm)	0.000
	28 Feb 2026 07:29	CO (ppm)	0.000
	28 Feb 2026 07:29	H2S (ppm)	0.000
	28 Feb 2026 07:29	% LEL	0.000
	28 Feb 2026 07:29	O2 (%VOL)	21.000



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27 Feb 2026 13:51	O2 (%VOL)	21.000
27 Feb 2026 13:51	% LEL	0.000
27 Feb 2026 13:51	H2S (ppm)	0.000
27 Feb 2026 13:51	CO (ppm)	0.000
27 Feb 2026 08:41	O2 (%VOL)	21.000
27 Feb 2026 08:41	% LEL	0.000
27 Feb 2026 08:41	CO (ppm)	0.000
27 Feb 2026 08:41	H2S (ppm)	0.000

Signature History

Signature	Signee	Date	Company	Remarks
Close by Permit Issuer		06 Mar 2026 00:42	SPRC	
Closing by Permit Holder		04 Mar 2026 17:29	UNION CONSTRUCTION & SUPPLY COMPANY LIMITED	
Gas Test by Gas Tester		04 Mar 2026 13:48	SPRC	
Reaccept by Permit Holder		04 Mar 2026 07:32	AS.FIRST CO., LTD.	
Reissue by Permit Issuer		04 Mar 2026 07:30	SPRC	
Gas Test by Gas Tester		04 Mar 2026 07:30	SPRC	
Reapprove by Permit Approver Hot Work		04 Mar 2026 06:30	SPRC	
Suspend for Revalidation by Permit Issuer		04 Mar 2026 06:20	SPRC	
Suspend by Permit Holder		03 Mar 2026 16:02	AS.FIRST CO., LTD.	
Gas Test by Gas Tester		03 Mar 2026 13:39	SPRC	

Co-signers Signature History

Signature	Signee	Date	Company	Remarks
Approve by Co-signer		27 Feb 2026 08:27	SPRC	



Type : Hot Work Permit
Number : 0-1#88544
State : Closed



Risk Assessments

Risk Assessment Level: RA

Hazard (Group)	Control Measure	Prereq.	Action Party
See JSEA attachment	JSEA-PN-2020 (TE6254 PLATFORMER CCR)	No	

[illegible]

Ear protection ☒ อุปกรณ์ป้องกันการได้ยิน	☒	☐	☐
Dust Respirator ☒ หน้ากากป้องกันฝุ่น	☒	☐	☐
Organic vapor respirator ☐ หน้ากากป้องกันการะเหยออร์แกนิก	☐	☐	☒
Selfe Contained breathing apparatus (SCBA) ☒ เครื่องช่วยหายใจชนิดถังอัดอากาศติดตัว	☐	☐	☒
Rubber boots ☐ รองเท้าบูทยาง	☐	☐	☒
Chemical resistant suit ☐ ชุดป้องกันสารเคมี	☐	☐	☒
Chemical resistant gloves ☐ ถุงมือป้องกันสารเคมี	☐	☐	☒
Heat resistant apron ☐ ชุดเข็มป้องกันความร้อน แขนยาว และถุงมือ	☐	☐	☒
Life jackets ☐ เสื้อชูชีพ	☐	☐	☒
Other(require specified detail) ☐ อื่นๆ (โปรดระบุ)	☐	☐	☒



Job Safety Environmental Analysis (JSEA)

EHS-FO-QS-2024

Job information:			
Department	PN	JSEA Number	PN-2020
Work Description	New concrete foundation installation		
Area Affected	A2A - PLATFORMER/CCR	Project/ MOC/ WO/ TA Number:	90007878
Equipment Number	24G-214A/B 24G-212A/B/C 24G-213A/B 24G-111A/B/C 07E-112	Work Location	A2A - PLATFORMER/CCR
Company doing work	Union Construction and Supply Co.,Ltd.	Reviewing Date	22 September 2025

JSEA team members:				
Discipline	Company	Name	Signature	Date
Shift Supervisor:	SPRC			01/12/2025
Operation Coordinator:	SPRC			01/12/2025
SPRC Maintenance/Job Supervisor:	SPRC			02 Dec 25
Health & Safety Specialist	SPRC			02 Dec 25
Contractor Job Supervisor	UCS			02-Dec-25



Job Safety Environmental Analysis (JSEA)

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Risk assessment:						
Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
1. งานสำรวจพื้นที่ด้วยกล้องระดับ	Heat Hazards	Low	1.1 ต้องจัดให้มีการผลัดเปลี่ยนหมุนเวียนกันทำและ สลับกันพัก จัดให้มีร่มสนาม กรณีทำงานกลางแจ้ง 1.2 ผู้ปฏิบัติงานต้องสวมใส่ถุงมือหนังตลอดเวลาเพื่อ ลดความรุนแรงจากหนักให้เป็นเบา และใช้ อุปกรณ์เสริมช่วยจับแทนมือ เช่น ปากกาจับตะปู	Yes	Permit Holder	Normal
งานติดตั้งเพื่อปลั๊กหมุด	Pinch point	Medium	2.1 ขั้วบรตหรับเสียบทางในโรงงานจากประตูทางเข้า ไปจนถึงหน้างาน และ กฎระเบียบการขับรถในเขต โรงงานและใช้ความเร็วตามที่โรงงานกำหนด 2.2 จัดให้มีเจ้าหน้าที่นำรถ (Flagman) นำรถเข้าพื้นที่ การทำงาน และ หาก ไม่มีเจ้าหน้าที่นำรถห้าม พนักงานขับรถเคลื่อนที่เด็ดขาด และต้องขับรถด้วย ความเร็วที่กำหนดไม่เกิน 30กม./ชม. 2.3 จัดให้มีคนตรวจสอบหน้างานและสำรวจเส้นทาง ก่อนนำรถเข้าพื้นที่ 2.4 รถที่นำเข้าใช้งานต้องส่งตรวจสอบกับเจ้าหน้าที่ SPRC และติดสติ๊กเกอร์ ให้เห็นชัดเจนก่อนนำเข้าพื้นที่การทำงาน 2.5 จัดเตรียมทรายหรือผ้าไว้ซับน้ำมันกรณีมี น้ำมันหกเลอะพื้น	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

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Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			2.6 วางแผนสำหรับพื้นที่จัดเก็บเครื่องจักรกลหนัก และทำการขออนุญาตเจ้าของพื้นที่ก่อนนำไปที่หน้างาน 2.7 ปิดล้อมพื้นที่และติดป้ายเตือนให้เขียนรอยให้เห็นได้ชัดเจน			
3. งานปิดกั้นพื้นที่ด้วยเสาเหล็กและโซ่ ขาว-แดง	Slip, trip, fall hazards	Low	3.1 ต้องยกเสาเหล็ก-วตัว ต่อคนเท่านั้น 3.2 ต้องจัดให้มีโซ่ขาว-แดงผูกมัดล้อมเสาเหล็ก จัดให้มีการปิดล้อมกองเสาเหล็กด้วยโซ่ขาว-แดง พร้อมทั้งติดป้ายเตือนให้เห็นเด่นชัดและกำหนดเส้นทางเดินให้ชัดเจน	Yes	Permit Holder	Normal
4. งานติดตั้งคอนกรีตด้วยเครื่องลัดคอนกรีต	Oil and Chemical Spill	Medium	4.1 เครื่องลัดคอนกรีตจะต้องผ่านการตรวจสอบจากทางเจ้าหน้าที่ SPRC และติดสติ๊กเกอร์ที่ตัวอุปกรณ์ให้เห็นชัดเจนก่อนนำมาใช้งาน 4.2 ปิดล้อมพื้นที่ทำงานตัดโดยทำจากกัน และห้ามพนักงานอยู่ในทิศทางด้านหน้าระหว่างการลัดคอนกรีตพนักงานที่ทำงานลัดคอนกรีต จะต้องสวมใส่ PPE เฉพาะให้ครบก่อนเริ่มงาน 4.3 พนักงานที่อยู่ในพื้นที่ต้องสวมใส่อุปกรณ์ลดเสียง Ear Plug/Ear Muff สำหรับลดเสียงที่เกิดจากงานลัด พนักงานที่อยู่ในพื้นที่ต้องสวมใส่อุปกรณ์ลดเสียง Ear Plug/Ear Muff สำหรับลดเสียงที่เกิดจากงานลัด	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

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Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			4.4 พนักงานที่ปฏิบัติงานต้องสวมใส่น้ำหนักป้องกันฝุ่น N95 เป็นอย่างน้อย 4.5 เติมน้ำที่ถังของเครื่องตัดให้มีน้ำอยู่ตลอดเวลาและให้มีน้ำสำรองเพียงพอต่อการทำงานลัดคอนกรีต 4.6 หากมีน้ำมันรั่วไหลฉุกเฉิน ให้หยุดใช้เครื่องลัดคอนกรีตทันทีแล้วนำออกมาซ่อมให้เรียบร้อยแล้วจึงนำกลับมาใช้งาน			
5. งานสกัดคอนกรีตด้วยสว่านและสกัดไฟฟ้า	Electric shock	Medium	5.1 ส่วนไฟฟ้าต้องผ่านการตรวจสอบจาก SPRC และติดสติ๊กเกอร์ให้เรียบร้อยก่อนนำมาใช้งาน 5.2 พนักงานต้องสวมใส่อุปกรณ์ลดเสียง Ear Muffs หรือ Ear Plug ตลอดเวลาขณะปฏิบัติงาน 5.3 พนักงานต้องสวมใส่กระบังหน้าใสตลอดเวลาขณะปฏิบัติงาน 5.4 ปิดกั้นบริเวณพื้นที่ทำงานด้วยโซ่ขาว-แดงเพื่อป้องกันบุคคลภายนอกเข้ามาในพื้นที่	Yes	Permit Holder	Normal
6. งานยกแผ่นคอนกรีตที่ถูกตัดแล้วออกจากจุดที่ทำงานลัด	Falling object	Medium	6.1 แขนกลีฟท์ที่ใช้ในงานยก ต้องให้เจ้าหน้าที่ SPRC ตรวจสอบก่อนนำไปใช้งาน 6.2 ห้ามใช้มือหรือเท้า จับแผ่นคอนกรีตโดยตรงให้ใช้อุปกรณ์อื่นๆแทน เช่น ไม้ เหล็ก ฯ	Yes	Permit Holder	Normal
7. งานขุดด้วยแรงคนงานโดยรอบและเครื่องจักร	Slip, trip, fall hazards	Medium	7.1 ในการขุดชั้นดินใช้พลั่วเหล็ก แต่ในชั้นทรายเครื่องมือที่ใช้จะต้องเป็นเครื่องมือที่ไม่ใช่โลหะ ให้เป็นพลาสติกเท่านั้น เช่น พลั่วพลาสติก 7.2 เมื่อพนักงานขุดแล้วพบอุปกรณ์ให้แจ้งหัวหน้างานเพื่อตรวจสอบ และระวังในการทำงานขุดเพื่อ	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

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Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			ป้องกันแรงกระแทกที่อาจส่งผลกระทบต่ออุปกรณ์ได้ งานขุดดินด้วยจอบนั้นห้ามเพื่อนร่วมงานหรือผู้ที่ไม่เกี่ยวข้องอยู่ในรัวอันตรายเด็ดขาด 7.3 คนขับต้องเป็นผู้ที่มีความชำนาญ มีใบอนุญาตขับขี่รถตามชนิดและต้องผ่านการอบรมความปลอดภัย ก่อนทำงานขุด 7.4 จัดให้มีคนนำรถ (Flagman) คอยให้สัญญาณตลอดเวลาที่ทำงานขุด และขณะรถเดินหน้า หรือถอยหลัง 7.5 ปิดกั้นพื้นที่ด้วยโซ่ ขาว-แดง และติดป้ายเตือน 7.6 ตรวจสอบระบบสาธารณูปโภคชั้นใต้ดินและต้องขุด Verify โดยใช้แรงคนก่อน			
8. งานสูบน้ำด้วยเครื่องสูบน้ำไฟฟ้า และเครื่องต้นสูบน้ำ	Oil and Chemical Spill	Low	8.1 เครื่องสูบน้ำไฟฟ้าต้องผ่านการตรวจสภาพจาก SPRC และติดสติ๊กเกอร์ให้เรียบร้อยก่อนนำมาใช้งาน 8.2 เครื่องต้นสูบน้ำต้องผ่านการตรวจเช็คจากเจ้าหน้าที่ ของ SPRC ก่อนนำมาใช้งาน และมีอาครองเวลาเติมน้ำมันต้องใช้อาครอง และต้องใช้ที่บ่มเติมเท่านั้น (เครื่องมีมือหมุนเท่านั้น)	Yes	Permit Holder	Normal
9. งานทำกำแพงกันดินด้วยแบบเหล็ก	Slip, trip, fall hazards	Medium	9.1 ต้องใช้แบบเหล็กค้ำยันเพื่อป้องกันดินสไลด์ 9.2 พนักงานต้องสวมใส่ถุงมือหนังและรองเท้ากันภัยตลอดเวลาที่ทำงาน 9.3 ปิดกั้นหลุมลึกด้วยท่อเหล็กที่แข็งแรงพร้อมทั้งติดป้ายเตือน ระวางอันตรายจากหลุมลึก	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

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Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
10. งานบดอัดดินเดิมและหินคลุกด้วยเพลมตบดิน/คบกระโดด	Equipment damage	Medium	10.1 ตรวจสอบน้ำหนักสิ่งของก่อนยกเคลื่อนย้าย วางแผนการยกอุปกรณ์ถ้ามีน้ำหนักมากจะต้องใช้อุปกรณ์ช่วยยก 10.2 ผู้ปฏิบัติงานต้องสวมใส่หมวกกปกป้องกันฝุ่นตลอดเวลาที่ปฏิบัติงานในดินน้ำพรม เพื่อลดการฟุ้งกระจายของฝุ่น ขณะปฏิบัติงาน 10.3 ผู้ปฏิบัติงานต้องสวมใส่อุปกรณ์ลดเสียงเช่น Ear Plug ตลอดเวลาปฏิบัติงาน หยุดพัก หรือสลับเปลี่ยนกับปฏิบัติงานตามความเหมาะสม	Yes	Permit Holder	Normal
11. งานผสมคอนกรีตเพื่อเทลิ้น	Exposure to chemicals	Medium	11.1 พนักงานต้องสวมใส่ถุงมือยาง รองเท้าบูท 11.2 พนักงานต้องสวมใส่แว่นตาป้องกันตลอดเวลาที่เทคอนกรีต	Yes	Permit Holder	Normal
12. งานผูกเหล็กและเข้าแบบเหล็กและรีเบบ	Pinch point	Medium	12.1 สวมใส่ถุงมือหนังตลอดเวลาในการทำงาน 12.2 หลีกเลี่ยงจุดหนีบ หรือกระแทก	Yes	Permit Holder	Normal
13. งานเทคอนกรีต	Exposure to chemicals	Medium	13.1 หัวหน้างานจัดให้มีคนนำรถ (Flagman) เพื่อนำรถเข้าไปยังพื้นที่จุดรดที่กำหนด หัวหน้ารถเทคอนกรีตไปจอดหน้างานนอกพื้นที่ที่กำหนดไว้ 13.2 คนขับต้องเป็นผู้ที่มีความรู้ความชำนาญ มีใบอนุญาตขับขี่รถตามชนิดและต้องผ่านการอบรมความปลอดภัย ก่อนทำงาน 13.3 หัวหน้างานจัดให้มีทีมงานจัดเก็บทำความสะอาดพื้นที่ 13.4 พนักงานต้องสวมใส่ถุงมือยาง รองเท้าบูท	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

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Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			13.5 หัวหน้างานต้องเช็คสภาพความพร้อมของพนักงานก่อนเริ่มงานทุกวัน 13.6 จัดหาร่มสนามและน้ำดื่มให้เพียงพอและผลัดเปลี่ยนกันทำงาน			
14. งานขนย้ายเศษคอนกรีตและเศษดินไปทิ้งยังพื้นที่ SPRCกำหนดและนำไปทิ้งนอกSPRCตามที่ได้รับอนุญาตด้วยระยะเวลาและรอบ 6 สัปดาห์	Equipment damage	Medium	14.1 ต้องจัดให้มีผู้เฝ้าทางตลอดระยะทางการขนส่งและรวมถึงการให้สัญญาณตลอดเวลาคอนกรีตที่กำหนดไม่เกิน 30 กม./ชม. 14.2 พนักงานขับรถต้องผ่านการอบรมก่อนเข้าพื้นที่ของโรงงาน และจะต้องแต่งกายตามที่โรงงานกำหนดไว้รวมถึงสวมใส่ PPE ให้ครบถ้วน 14.3 รถที่นำเข้ามาจะต้องอยู่ในสภาพสมบูรณ์ไม่ชำรุด และไม่มี การดัดแปลงที่ส่งผลกระทบต่อความปลอดภัย และต้องผ่านการตรวจสภาพจากเจ้าหน้าที่ SPRC 14.4 หัวหน้างานจัดให้มีทีมงานจัดเก็บทำความสะอาดพื้นที่	Yes	Permit Holder	Normal
15. งานติดตั้งจอยซ์เซ็นท์	Exposure to chemicals	Low	15.1 สวมใส่ถุงมือยางในการทำงาน 15.2 สวมใส่อุปกรณ์ให้เหมาะสมตามลักษณะงาน	Yes	Permit Holder	Normal
16. งานพาสีกันซึมลงผิวคอนกรีตด้วยแปรงทาสี	Exposure to chemicals	Medium	16.1 ผู้ปฏิบัติงานจะต้องสวมใส่แว่นตาป้องกันเพื่อป้องกันดวงตา ตลอดเวลาในการทำงาน 16.2 ผู้ปฏิบัติงานต้องแต่งกายให้รัดกุมและสวมใส่ถุงมือยางขณะปฏิบัติงานตลอดเวลา	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

EHS-FO-QS-2024

Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			16.3 ผู้ปฏิบัติงานต้องสวมใส่อุปกรณ์ป้องกันอันตรายส่วนบุคคลและหน้ากากกรองสารเคมี ให้เหมาะสมกับลักษณะงาน 16.4 พนักงานต้องสวมใส่อุปกรณ์ PPE ที่ตรงตามมาตรฐานSPRC เกี่ยวกับการทำงานสารเคมี 16.5 พนักงานทุกคนที่ทำงานเกี่ยวกับสารเคมีต้องทำการ Respirator Fit Test			
17. งานออกด้วยรถบรรทุกติดปั้นจั่น (รถเข็น)	Falling object	High	17.1 ทำให้แน่ใจว่าพื้นที่ที่จะทำงานปราศจากวัสดุติดขวางและบุคคลอื่นๆ 17.2 ปิดกั้นบริเวณพื้นที่ทำงานและติดป้ายเตือน 17.3 ไม่อนุญาตให้ผู้ที่ไม่เกี่ยวข้องเข้าไปในบริเวณทำงาน 17.4 จัดเตรียมสำหรับทำงานโดยปฏิบัติตามแผนการยก 17.5 กางเขนเดียวออกให้สุดเท่านั้น 17.6 อย่าใช้เขียบบนพื้นที่ที่ไม่ได้ระดับ 17.7 ตรวจสอบความสามารถและรัศมีการยกของเขียบให้เป็นตามแผนการยก 17.8 หัวหน้างานจะต้องตรวจสอบ 4 ผู้ ในการทำงาน ยกให้พร้อมก่อน 17-9 ตรวจสอบให้แน่ใจว่ามีการผูกมัดเกี่ยวอย่างมั่นคงก่อนที่จะทำการยก 17.10 จำกัดบุคคลที่จะเข้าไปในพื้นที่ทำงาน และไม่อนุญาตให้ผู้ที่ไม่เกี่ยวข้องเข้า พื้นที่ปฏิบัติงาน พร้อม	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

EHS-FO-QS-2024

Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			ปิดกั้นบริเวณพื้นที่ทำงาน และ ติดป้ายเตือน 17.11 ผู้ให้สัญญาณงานยก จะต้องอยู่ในทิศทางที่ผู้บังคับ Boom truck เห็นได้ชัดเจน 17.12 ตรวจสอบสภาพการทำงานที่เป็นสาเหตุก่อให้เกิดอันตรายของช่วงพหลันโดยใช้แบบฟอร์ม falling objects check list form ก่อนเริ่มงาน 17.13 ตรวจสอบมือกับกระแทกตลอดที่ทำการยก 17.14 เอามือออกให้ห่างจากจุดติด/หนีบ อย่าอยู่ในมุมอับ			
18.ก่อนเลิกงานการทำความสะอาดก่อนเลิกงาน	Slip, trip, fall hazards	Low	18.1 ปิดทางเข้า-ออก พร้อมติดตั้งป้ายเตือน ห้ามผู้ที่ไม่เกี่ยวข้องเข้าพื้นที่งานก่อสร้าง โดยไม่ได้รับอนุญาต ให้ที่เห็นชัดเจน 18.2 เครื่องจักรรวมถึงเครื่องมือต่างๆที่นำมาใช้งานก่อนเลิกงานจะต้องนำออกมาเก็บตามจุดที่กำหนดไว้เท่านั้น และล้อมพื้นที่เก็บเครื่องจักรพร้อมติดตั้งป้ายเตือนให้ชัดเจน 18.3 จัดเก็บเครื่องมือ/อุปกรณ์ วัสดุต่างๆ ที่ใช้ปฏิบัติงานให้เป็นระเบียบ 18.3 ทำความสะอาดพื้นที่ปฏิบัติงานทุกครั้งหลังเลิกงาน 18.4 บุคคลที่ไม่เกี่ยวข้องห้ามเข้าไปในพื้นที่ปฏิบัติงาน	Yes	Permit Holder	Normal



Job Safety Environmental Analysis (JSEA)

EHS-FO-QS-2024

Task	Hazard	Initial risk	Control measure	Pre-requisite	Action party	Residual risk
			18.5 คัดแยกขยะปนเปื้อนใต้ถุงพร้อมติดสติ๊กเกอร์ก่อนนำไปพักทิ้ง			

Add more rows by copy and paste if needed



ตัวอย่างเอกสาร Lifting Operation Permit



Type : Lifting Operations Permit

Number : 0-1#86985

State : Closed

Title:TA26-TE6254-A1 _LIFTING WORK (BOOM TRUCK 5T) #Jirapat K - UCS/0994175440

Work Description:TE6254 Mobilize and lifting

- Mobilize pipe, equipment, toolbox,

- Lifting pipe spool and equipment

- Lifting for load/unload scaffolding materials.

Permit Details

Site:SPRC Refinery

Joint Site Visit Required:No

Planned Start Date:18 Feb 2026

Planned End Date:10 Mar 2026

Location(s):A1 - CDU/VDU 1

Equipment:A1 - CDU/VDU 1

Tools/Equipment to be used:

- Boom truck 5 ton

- Lifting gear (Shackle, Round Sling, Tagline)

- Forklift (ใช้สำหรับขึ้นพอร์ตการเคลื่อนย้ายเครื่องมือและอุปกรณ์)

Lead Discipline:Rigger

Company Doing Work:UNION CONSTRUCTION & SUPPLY COMPANY LIMITED

No. of Workers:10

Isolation Plan Required:None

Substance Measurements

Gas Tester	Date	Substance	Value	Remarks
	25 Feb 2026 13:29	O2 (%VOL)	21.000	
	25 Feb 2026 13:29	H2S (ppm)	0.000	
	25 Feb 2026 13:29	% LEL	0.000	
	25 Feb 2026 13:29	CO (ppm)	0.000	
	25 Feb 2026 08:16	O2 (%VOL)	21.000	
	25 Feb 2026 08:16	H2S (ppm)	0.000	
	25 Feb 2026 08:16	% LEL	0.000	
	25 Feb 2026 08:16	CO (ppm)	0.000	
	24 Feb 2026 12:32	% LEL	0.000	
	24 Feb 2026 12:32	O2 (%VOL)	21.000	
	24 Feb 2026 12:32	CO (ppm)	0.000	
	24 Feb 2026 12:32	H2S (ppm)	0.000	



Type : Lifting Operations Permit
Number : 0-1#86985
State : Closed



21 Feb 2026 18:38	H2S (ppm)	0.000
21 Feb 2026 18:38	% LEL	0.000
21 Feb 2026 18:38	O2 (%VOL)	21.000
21 Feb 2026 18:38	CO (ppm)	0.000
21 Feb 2026 12:40	O2 (%VOL)	21.000
21 Feb 2026 12:40	CO (ppm)	0.000
21 Feb 2026 12:40	H2S (ppm)	0.000
21 Feb 2026 12:40	% LEL	0.000
21 Feb 2026 06:28	O2 (%VOL)	21.000
21 Feb 2026 06:28	% LEL	0.000
21 Feb 2026 06:28	CO (ppm)	0.000
21 Feb 2026 06:28	H2S (ppm)	0.000
20 Feb 2026 18:41	O2 (%VOL)	21.000
20 Feb 2026 18:41	% LEL	0.000
20 Feb 2026 18:41	CO (ppm)	0.000
20 Feb 2026 18:41	H2S (ppm)	0.000
20 Feb 2026 12:33	O2 (%VOL)	21.000
20 Feb 2026 12:33	CO (ppm)	0.000
20 Feb 2026 12:33	H2S (ppm)	0.000
20 Feb 2026 12:33	% LEL	0.000
20 Feb 2026 06:28	O2 (%VOL)	21.000
20 Feb 2026 06:28	% LEL	0.000
20 Feb 2026 06:28	CO (ppm)	0.000
20 Feb 2026 06:28	H2S (ppm)	0.000
19 Feb 2026 19:12	% LEL	0.000
19 Feb 2026 19:12	O2 (%VOL)	21.000
19 Feb 2026 19:12	CO (ppm)	0.000
19 Feb 2026 19:12	H2S (ppm)	0.000
19 Feb 2026 12:24	CO (ppm)	0.000
19 Feb 2026 12:24	H2S (ppm)	0.000
19 Feb 2026 12:24	% LEL	0.000
19 Feb 2026 12:24	O2 (%VOL)	21.000

Closed



Type : Lifting Operations Permit
Number : 0-1#86985
State : Closed



19 Feb 2026 06:34	O2 (%VOL)	21.000
19 Feb 2026 06:34	% LEL	0.000
19 Feb 2026 06:34	CO (ppm)	0.000
19 Feb 2026 06:34	H2S (ppm)	0.000
18 Feb 2026 13:42	O2 (%VOL)	21.000
18 Feb 2026 13:42	% LEL	0.000
18 Feb 2026 13:42	H2S (ppm)	0.000
18 Feb 2026 13:42	CO (ppm)	0.000

Signature History

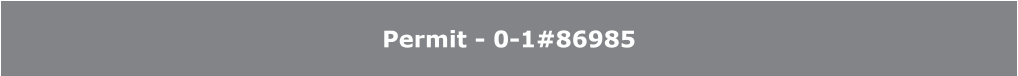
Signature	Signee	Date	Company	Remarks
Close by Permit Issuer		23 Mar 2026 11:03	SPRC	
Closing by Permit Holder		23 Mar 2026 07:46	UNION CONSTRUCTION & SUPPLY COMPANY LIMITED	

Risk Assessments

Risk Assessment Level: RA

Hazard (Group)	Control Measure	Prereq.	Action Party
See JSEA attachment	JSEA. PN-2022 (TE6254 INCREASE LIGHT CRUDE PROCESS)	No	

Crane and Lifting		Crane and Lifting checklist requires counter sign signatures from Equipment Supervisor		
Permit Requester consider activities that are classified as high-risk according to the following activity. (Lifting plan is required)		Yes	No	N/A
Specify type of crane and Crane Load Capacity - ชนิดของเครนและขนาดของเครนที่ใช้งาน		☒	☐	☐
Remarks	BOOM TRUCK 5 TONS			
Lift will exceed 75% of the Crane's rated capacity. - ยกวัตถุเกิน 75% ของความสามารถของเครน		☐	☒	☐
Lift weight is not accurately known - ไม่ทราบน้ำหนักที่แน่นอน ของวัตถุที่จะยก		☐	☒	☐
Lift over live line or Equipment - ยกวัตถุข้ามท่อ ขั้วมอปลากรaft หรือเครื่องจักร		☐	☒	☐
Lift will involve potential risk for shock load during the lift - การยกวัตถุที่มีความเสี่ยงต่อการกระชากแรง		☐	☒	☐
Lift will require two or more Cranes - การยกที่ต้องใช้เครนร่วมกัน 2 คันขึ้นไป		☐	☒	☐
Lifting with personnel basket - การยกกระเช้าให้ผู้ปฏิบัติงาน ทำงาน		☐	☒	☐
Lifting near energized electric power lines - การยกวัตถุที่ใกล้กับ สายไฟฟ้าแรงสูง		☐	☒	☐
		☐	☒	☐
		☐	☒	☐
		☐	☒	☐



Generic Safety	Generic Safety Checklist		
Vessel/Equipment Condition Requirements - ජනරණික තත්වයේ අවශ්‍යතා	Yes	No	N/A
Equipment Emptied ☐ อุปกรณ์หรือท่อไม่มีสารอันตรายตกค้างภายใน	☐	☐	☒
Equipment Properly drained / vent ☐ อุปกรณ์ทำการปล่อยของเหลวจนหมด	☐	☐	☒
Equipment or Lines water washed ☐ อุปกรณ์หรือท่อถูกทำความสะอาดด้วยน้ำ	☐	☐	☒
Equipment / Vessel Steamed Out ☐ อุปกรณ์หรือภาชนะรับแรงดันผ่านการทำความสะอาดด้วยไอน้ำ	☐	☐	☒
Equipment or line chemical washed ☐ อุปกรณ์หรือท่อผ่านการทำความสะอาดด้วยสารเคมี	☐	☐	☒
Equipment or line N2 purged ☐ ท่อหรืออุปกรณ์ผ่านการทำความสะอาดด้วยไนโตรเจน	☐	☐	☒
Sight glasses steamed ☐ ช่องมองระดับ (sight glasses) ถูกทำความสะอาดด้วยไอน้ำ	☐	☐	☒
Potential for liquid or other residue ☐ อาจมีของเหลวตกค้าง	☐	☐	☒
Electrical system isolated ☐ ระบบไฟฟ้าถูกตัดแยกพลังงาน	☐	☐	☒
Equipment contains demister pads ☐ อุปกรณ์มีรวมแผ่นกรองของเหลว	☐	☐	☒
Potential for pyrophoric compounds ☐ อาจมีองค์ประกอบของสารไวไฟออกซิไดซ์	☐	☐	☒
Potential for elemental mercury ☐ อาจมีองค์ประกอบของสารปรอท	☐	☐	☒
Radiation source isolated ☐ แหล่งกำเนิดรังสีถูกตัดแยก	☐	☐	☒
Excavation 1.5 meters depth or deeper ☐ งานขุดที่ลึกเท่ากับหรือมากกว่า 1.5 เมตร	☐	☐	☒
First / Final Break Requirements	Yes	No	N/A
PPE for Breaking Group 1 (safety glasses, face shield, leather gloves)	☐	☐	☒
PPE for Breaking Group 2 (goggle, face shield, respirator with cartridge 6003/6004, chemical resistant suite, leather and nitrile gloves, operation standby with half face and maintenance standby with half face)	☐	☐	☒
PPE for Breaking Group 3 (safety glasses, face shield, heat resistant suit, heat resistant gloves)	☐	☐	☒
PPE for Breaking Group 4 (goggle, face shield, respirator with cartridge 6003/6009/6096, chemical resistant suit, heat resistant and nitrile gloves, operation standby with half face and maintenance standby with half face)	☐	☐	☒
PPE for Breaking Group 5 (goggle, face shield, respirator with cartridge 6003/6009/6096, chemical resistant suit, leather and nitrile/PVA gloves, operation standby with half face and maintenance standby with half face)	☐	☐	☒
PPE for Breaking Group 6 (SCBA, chemical resistant suit, leather and nitrile/PVA gloves, operation standby with Escape hood and maintenance standby with wear BA/Air line)	☐	☐	☒
[TA26] PPE for Breaking Group 6A (Full face, chemical resistant suit, leather and nitrile/PVA gloves, operation standby with full face and maintenance standby with wear full face)	☐	☐	☒
[TA26] PPE for Breaking Group 6B (SCBA, chemical resistant suit, leather and nitrile/PVA gloves, operation standby with Escape hood and maintenance standby with wear BA/Air line)	☐	☐	☒
Fire & Other Safety Protection Requirements - ජීවන රක්ෂණ පියවරුන් සහ වෙනත් ආරක්ෂණ ක්‍රියාමාර්ග - ජනරණික ස්ථාවර බරපතල / භූමිකම් බරපතල	Yes	No	N/A
No draining, venting or sampling in area ☐ ไม่ระบาย, ปล่อยหรือเก็บตัวอย่างในบริเวณใกล้เคียง	☒	☐	☐
Fire Watch (Please specified name of fire watch) ☐ มีผู้เฝ้าระวังอัคคีภัย (โปรดระบุชื่อ)	☐	☐	☒
Surrounding sewers to be covered within 15M ☐ ปิดครอบท่อระบายบริเวณโดยรอบในรัศมี 15 เมตร	☒	☐	☐
Danger tape and Warning signs posted at entry points ☐ ปักกั้นพื้นที่ทำงานและป้ายเตือนบริเวณทางเข้า	☐	☐	☒
Fire Extinguisher required at job site ☐ มีถังดับเพลิงที่หน้างาน	☐	☐	☒
Fire Hose at job site & ready ☐ สายดับเพลิงในสภาพพร้อมใช้งาน	☐	☐	☒
Personal Protective Equipment Requirements - ජනරණික ආරක්ෂක උපකරණ - භූමිකම් ආරක්ෂක උපකරණ	Yes	No	N/A
Standard PPE ☐ อุปกรณ์ป้องกันส่วนบุคคลขั้นพื้นฐาน	☒	☐	☐
Safety harness full body ☐ สายนิรภัยชนิดพวงลำตัว	☐	☐	☒
Goggles ☐ แว่นครอบตา	☐	☐	☒
Face Shield ☐ กระบังหน้า	☐	☐	☒
Ear protection ☐ อุปกรณ์ป้องกันการได้ยิน	☒	☐	☐
Dust Respirator ☐ หน้ากากป้องกันฝุ่น	☐	☐	☒



Permit - 0-1#86985

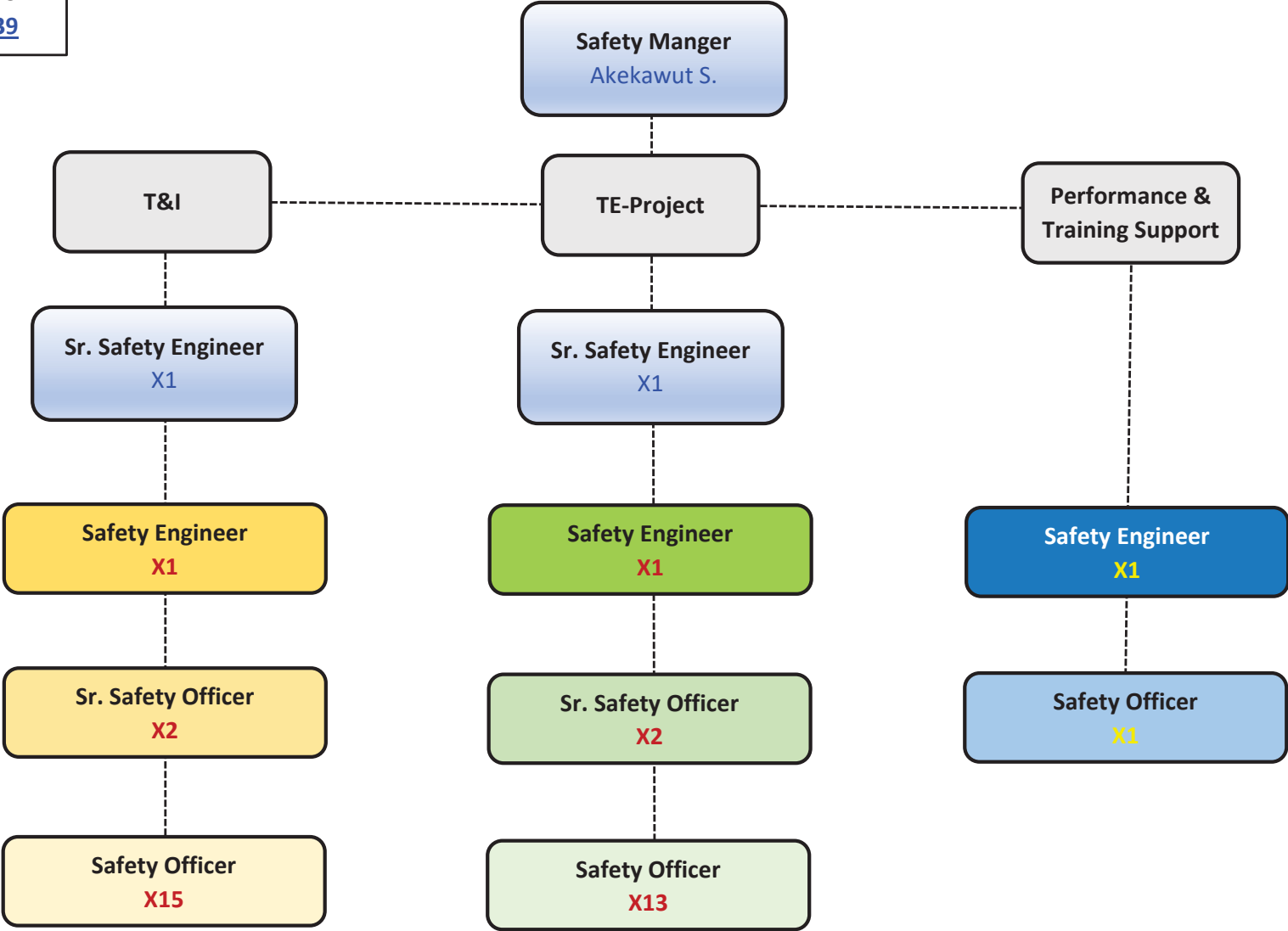
Organic vapor respirator ๕ หน้ากากป้องกันการระเหยออร์แกนิก	☐	☐	☒
Selfe Contained breathing apparatus (SCBA) ๕ เครื่องช่วยหายใจชนิดถังอัดอากาศติดตัว	☐	☐	☒
Rubber boots ๕ รองเท้าบูทยาง	☐	☐	☒
Chemical resistant suit ๕ ชุดป้องกันสารเคมี	☐	☐	☒
Chemical resistant gloves ๕ ถุงมือป้องกันสารเคมี	☐	☐	☒
Heat resistant apron ๕ ชุดเชิ้มนป้องกันความร้อน แขนยาว และถุงมือ	☐	☐	☒
Life jackets ๕ เสื้อชูชีพ	☐	☐	☒
Other(require specified detail) ๕ อื่นๆ (โปรดระบุ)	☐	☐	☒

ภาคผนวก ข.1-6

ผังหน่วยงานความปลอดภัยของบริษัทผู้รับเหมา

Safety Manager:	1
Sr. Safety Engineer:	2
Safety Engineer:	3
Sr. Safety Officer:	4
Safety Officer:	29
Total:	<u>39</u>

ORGANIZATION CR3 – Safety TA2026

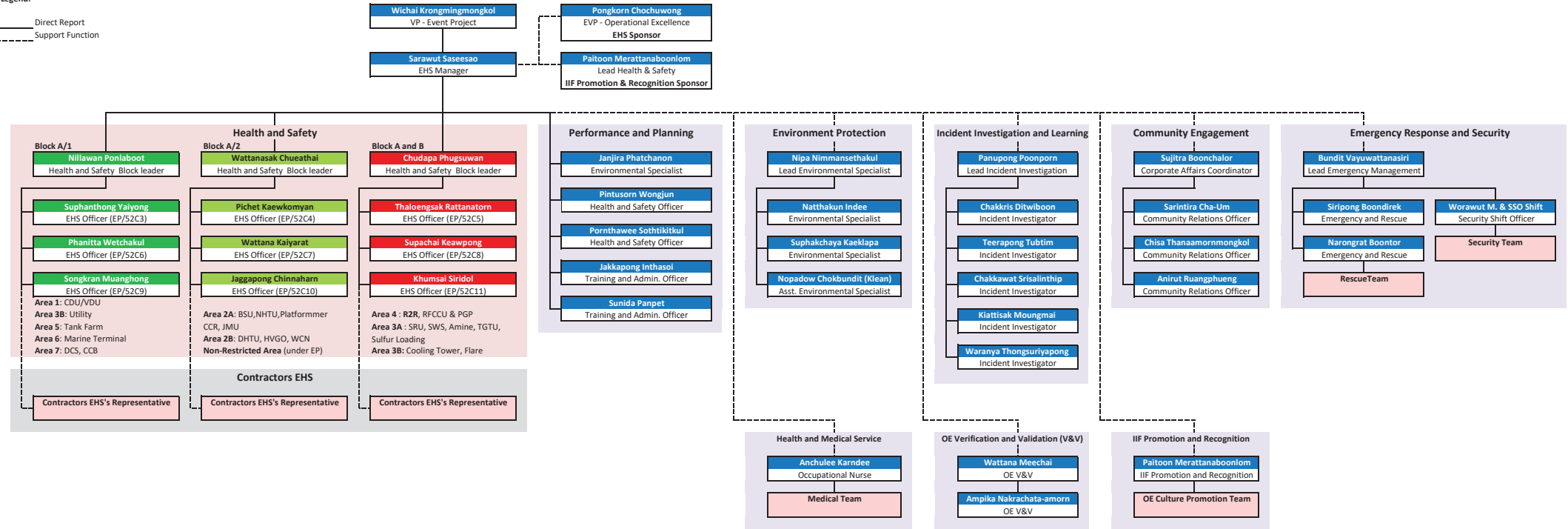


Event 2026 EHSS Organization (Execution Phase)

Rev. 0
(1 Dec 2025)

Legend:

—— Direct Report
----- Support Function



SAFETY UCS

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FIRE WATCH MAN : 20 PEOPLE

