

คุณภาพอากาศจากแหล่งกำเนิด



Request No. LA65-1035

Report No. 6511-0122

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 17/10/2022
RECEIVED DATE : 25/10/2022
TESTED DATE : 25-28/10/2022
STACK DESCRIPTION

SAMPLE NO. : 06498-06499, 06501
SAMPLING TIME : 11:03-11:46
REPORTED DATE : 05/11/2022

Height : 60.30 m
Diameter : 4.30 m
Temperature : 180.00 °C
Air Velocity : 17.50 m/s
Flow rate³ : 147.60 m³/s
Moisture Content : 11.18 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 5.49 %
Barometric Pressure : 756.25 mm.Hg
Atmospheric Temperature : 31.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD	UNIT
			5.49 % O ₂	7 % O ₂		
Particulate (TSP)	Isokinetic, Gravimetric	11:03-11:46	1.5	1.4	320 ¹ , 32 ²	mg/m ³
			0.2214	-	4.62 ²	g/s
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	11:05-11:35	<3.4	<3.4	157 ¹	mg/m ³
			<1.3	<1.3	60 ¹ , 28 ²	ppm
			<0.5018	-	10.57 ²	g/s
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	11:25-11:30	<2.0	<2.0	376 ¹	mg/m ³
			<1.0	<1.0	200 ¹ , 10 ²	ppm
			<0.2952	-	2.71 ²	g/s

REMARK:
¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)
² LIMIT VALUES IN ENVIRONMENTAL IMPACT ASSESMENT REPORT
³ DRY BASIS (25°C, 760 mm.Hg)
* SAMPLING BY MR. METEE SUKPRASERT (ว-003-ก-8333)

Examined By: (MISS APIRADEE CHUEN-AROM) (ว-003-ก-4377) 05/11/2022
Approved By: (MR. THONGCHAI BOONSACK) (ว-003-ก-5618) 05/11/2022

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Request No. LA65-1035

Report No. 6511-0123

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 17/10/2022
RECEIVED DATE : 25/10/2022
TESTED DATE : 25/10/2022-04/11/2022
STACK DESCRIPTION

SAMPLE NO. : 06500
SAMPLING TIME : 11:05-11:35
REPORTED DATE : 05/11/2022

Height : 60.30 m
Diameter : 4.30 m
Temperature : 180.00 °C
Air Velocity : 17.50 m/s
Flow rate¹ : 147.60 m³/s
Moisture Content : 11.18 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 5.49 %
Barometric Pressure : 756.25 mm.Hg
Atmospheric Temperature : 31.00 °C

PARAMETER	TEST METHOD	TIME	RESULT ¹		UNIT
			5.49 % O ₂	7 % O ₂	
Hydrogen Cyanide ² (HCN)	Spectrophotometric	11:05-11:35	0.21	0.19	mg/m ³
			0.0310	-	g/s

REMARK:
¹ DRY BASIS (25°C, 760 mm.Hg)
² SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.
(MR. METEE SUKPRASERT)
ANALYSED BY THE OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL
TECHNOLOGY SERVICES ,FACULTY OF PUBLIC HEALTH ,MAHIDOL UNIVERSITY



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By..

(MR. THONGCHAI BOONSACK)

05/11/2022

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Request No. LA65-1035

Report No. 6511-0120

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 17/10/2022
RECEIVED DATE : 25/10/2022
TESTED DATE : 25/10/2022-04/11/2022
STACK DESCRIPTION :
Height : 60.30 m
Diameter : 4.30 m
Temperature : 180.00 °C
Air Velocity : 17.50 m/s
Flow rate² : 135.05 m³/s
Moisture Content : 11.31 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 5.49 %
Barometric Pressure : 756.25 mm.Hg
Atmospheric Temperature : 31.00 °C

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			5.49 % O ₂	3 % O ₂		
Hydrogen Cyanide ³ (HCN)	Spectrophotometric	11:05-11:35	0.23	0.27	2.0	mg/m ³

REMARK:
¹ IFC, 2007. ENVIRONMENTAL, HEALTH AND SAFETY GUIDELINES FOR LARGE VOLUME PETROLEUM-BASED ORGANIC CHEMICALS MANUFACTURING
² DRY BASIS (0°C, 760 mm.Hg)
³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.
(MR. METEE SUKPRASERT)
ANALYSED BY THE OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL TECHNOLOGY SERVICES ,FACULTY OF PUBLIC HEALTH ,MAHIDOL UNIVERSITY



Examined By..

(MR. THONGCHAI BOONSAK)

05/11/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Request No. LA65-1035

Report No. 6511-0127

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : SAR Stack
SAMPLING DATE : 18/10/2022
RECEIVED DATE : 25/10/2022
TESTED DATE : 25-28/10/2022
STACK DESCRIPTION :
Height : 61.00 m
Diameter : 2.40 m
Temperature : 43.00 °C
Air Velocity : 1.58 m/s
Flow rate³ : 6.28 m³/s
Moisture Content : 6.34 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 5.84 %
Barometric Pressure : 754.75 mm.Hg
Atmospheric Temperature : 34.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ³		STD	UNIT
			5.84 % O ₂	7 % O ₂		
Particulate (TSP)	Isokinetic, Gravimetric	10:05-11:05	3.5	3.2	320 ¹ , 32 ²	mg/m ³
			0.0220	-	0.15 ²	g/s
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	10:10-10:40	<3.4	<3.4	157 ¹	mg/m ³
			<1.3	<1.3	60 ¹ , 28 ²	ppm
			<0.0214	-	0.34 ²	g/s
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:25-10:30	32.6	30.1	376 ¹	mg/m ³
			17.3	16.0	200 ¹ , 50 ²	ppm
			0.2047	-	0.44 ²	g/s

REMARK:
¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)
² LIMIT VALUES IN ENVIRONMENTAL IMPACT ASSESSMENT REPORT
³ DRY BASIS (25°C, 760 mm.Hg)
* SAMPLING BY MR. METEE SUKPRASERT (3-003-3-8333)

Examined By..

(MISS APIRADEE CHUEN-AROM)

(3-003-3-4377)

05/11/2022



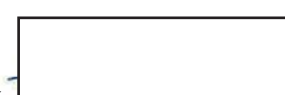
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Approved By..

(MR. THONGCHAI BOONSAK)

(3-003-3-5618)

05/11/2022



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Request No. LA65-1035

Report No. 6511-0131

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
 SAMPLE POINT : WWI Stack
 SAMPLING DATE : 19/10/2022 SAMPLE NO. : 06515-06517
 RECEIVED DATE : 25/10/2022 SAMPLING TIME : 09:55-10:45
 TESTED DATE : 25-31/10/2022 REPORTED DATE : 05/11/2022
 STACK DESCRIPTION

Height : 60.00 m Type of Process : Combustion
 Diameter : 1.89 m Type Of Fuel : Natural Gas
 Temperature : 47.00 °C Oxygen Content : 12.56 %
 Air Velocity : 1.93 m/s Barometric Pressure : 754.75 mm.Hg
 Flow rate¹ : 4.75 m³/s Atmospheric Temperature : 30.00 °C
 Moisture Content : 5.14 %

PARAMETER*	TEST METHOD	TIME	RESULT ¹		STD	UNIT
			12.56 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	09:55-10:45	1.0	1.7	320 ¹ , 32 ²	mg/m ³
(TSP)			0.0048	-	0.58 ²	g/s
Sulfur Dioxide	Barium Thorin Titrimetric	10:00-10:30	<3.4	<3.4	157 ¹	mg/m ³
(SO ₂)			<1.3	<1.3	60 ¹ , 28 ²	ppm
			<0.0161	-	1.32 ²	g/s
Oxides of Nitrogen	Chemical Absorption,	10:10-10:15	17.9	29.8	376 ¹	mg/m ³
(NO _x as NO ₂)	Colorimetric		9.5	15.8	200 ¹ , 50 ²	ppm
			0.0850	-	1.69 ²	g/s

REMARK: ¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)
² LIMIT VALUES IN ENVIRONMENTAL IMPACT ASSESMENT REPORT
³ DRY BASIS (25°C, 760 mm.Hg)
 * SAMPLING BY MR. METEE SUKPRASERT (7-003-ก-8333)

Examined

(MISS APIRADEE CHUEN-AROM)

(7-003-ก-4377)

05/11/2022



Approved By

(MR. THONGCHAI BOONSAK)

(7-003-ก-5618)

05/11/2022

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