


## Preventive Maintenance Fire Alarm System (Egco)



# Report Fire Alarm System

## 2023 ครั้งที่ 2



**Egco Cogeneration Co.,Ltd.**

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SUBJECT/เรื่อง: เอกสารส่งมอบงาน		Page/หน้า 1/1
Customer Name / ชื่อลูกค้า: คุณวชิระพงษ์ Tel : 092-546-9416	Date issue/วันที่ออก เอกสาร: 08/12/2023	Ref./เลขที่- Time./ ครั้งที่ 2 JO23/031
Project Name / ชื่อโครงการ: Annual function test of Fire Alarm	Contact with / ติดต่อกับ Kh.Pitak Tel : 093-328-8841	

ตามที่ บริษัท EGCO COGENERATION COMPANY LIMITED ได้มอบความไว้วางใจให้ บริษัท ฟริเกต เทคโนโลยี จำกัด ทำการ Annual function test of Fire Alarm ตามเอกสารใบสั่งซื้อเลขที่ 7000205023

ทาง บริษัท ฟริเกตฯ ได้ดำเนินงานดังกล่าวเสร็จเรียบร้อยแล้วเมื่อวันที่ 8 ธันวาคม 2566 ดังนั้น ทางบริษัท ฟริเกตฯ จึงขอส่งมอบงานดังกล่าว

หากบริษัทฯ ของท่าน มีข้อสงสัยประการใด สามารถติดต่อกลับมายัง บริษัท ฟริเกตฯ เพื่อสอบถามรายละเอียดเพิ่มเติมได้ทันที ทางบริษัท ฟริเกตฯ หวังเป็นอย่างยิ่งว่า บริษัทฯ ของท่าน จะพึงพอใจการใช้บริการของเรา และเชื่อมั่นใน บริษัท ฟริเกตฯ ได้มีโอกาสรับใช้บริษัทฯ ของท่านต่อไปในอนาคต

จึงเรียนมาเพื่อทราบ และขอขอบพระคุณท่านมา ณ โอกาสนี้

ผู้ตรวจรับมอบงาน (ลูกค้า)

Samran K, 8-12-66

ลายเซ็น / วันที่/ เดือน / ปี

ผู้ส่งมอบงาน โดย บริษัท ฟริเกต เทคโนโลยี จำกัด

ทศพร / 8/12/66

ลายเซ็น/ วันที่/ เดือน / ปี



SUBJECT/เรื่อง: รายงานผลการทดสอบระบบสัญญาณแจ้งเหตุเพลิงไหม้		Page/หน้า
Customer Name / ชื่อลูกค้า: EGCO COGENERATION	Date issue/วันที่ออกเอกสาร: 8/12/66	Ref./เลขที่ - Time/ ครั้งที่ JO23/031
Project Name / ชื่อโครงการ: PM Fire Alarm System	Contact with / ติดต่อกับ ไกรสร 038-691421	

**รายงานผลการทดสอบระบบสัญญาณแจ้งเหตุเพลิงไหม้ ครั้งที่ 2**  
**บริษัท EGCO COGENERATION วันที่ 6 - 8 ธันวาคม พ.ศ. 2566**  
**สรุปผลการทดสอบระบบสัญญาณแจ้งเหตุเพลิงไหม้**

**สรุปผลการทดสอบ**

1. Heat Detector เป็นแบบ Fix ซึ่งสภาพยังใช้งานได้ แต่แบบ Fix type ไม่ต้องทำการทดสอบ No. IFPC-HDT-0802, IFPC-HDT-1101, IFPC-HDT-1503, IFPC-HDT-2601, IFPC-HDT-2602, IFPC-HDT-2705
2. Manual Call Point 1 ตัว No. IFPF-MCP-2001 Zone 20 ขึ้นโชว์ Trouble
3. LED Graphic Annunciator ทำงานได้ปกติ
4. Solenoid Valve CO2 System  
Zone 2 โซลินอย์ทำงานถึงที่ SCV-202  
Zone 5 โซลินอย์ทำงานถึงที่ SCV-205, 14, 15
5. Smoke Detector Zone 1, Zone 3, Zone 4, Zone 6 ไม่ได้ทำการ Test เนื่องจากมีการปรับปรุงโยกย้าย สาย Zone จากตู้เก่าไปตู้ใหม่

**ข้อเสนอแนะ**

1. ควรทำการเปลี่ยนอุปกรณ์ Heat Detector 6 ตัว จากแบบ Fix ให้เป็นแบบ Rate-of-Rise เพื่อให้สามารถทดสอบได้
2. ควรทำการแก้ไข Zone 20 เพื่อให้การทำงานได้มีประสิทธิภาพ ภาวครอบคุมพื้นที่
3. ควรทำการทดสอบระบบสัญญาณแจ้งเหตุเพลิงไหม้ และทำความสะอาดอุปกรณ์ เป็นประจำและต่อเนื่อง เพื่อให้อุปกรณ์อยู่ในสภาพที่พร้อมใช้งานอยู่ตลอดเวลา และให้ผลที่มีประสิทธิภาพ เทียงตรง เชื่อถือได้และควรทำการเปลี่ยนอุปกรณ์ที่เสีย เพื่อให้สามารถใช้งานได้ตามปกติและพร้อมใช้งาน



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#### ตู้ควบคุมระบบสัญญาณแจ้งเหตุเพลิงไหม้ (Fire Alarm Control Panel)

ปัจจุบันระบบสัญญาณแจ้งเหตุเพลิงไหม้ EGCO COGENERATION เป็นแบบ Conventional System ของ Notifier โดยใช้โมดูลในการติดต่อสื่อสาร กับตู้ และควบคุมการทำงานของ โชนตรวจจับและโชนแจ้งเหตุ สามารถทำงานได้ตามปกติ ปุ่มควบคุมต่างๆที่หน้าตู้ทุกตัวสามารถใช้งานได้ดี สัญลักณณ์แสดงสภาวะการทำงานของตู้ควบคุมสามารถแสดงผลได้อย่างถูกต้อง การแสดงผลของหลอด LED แสดงผลได้อย่างถูกต้องชัดเจน

#### แผงแสดงผลเพลิงไหม้ (Graphic Annunciator)

1. ตู้แสดงผลเพลิงไหม้ ใช้งานได้ปกติ
2. หลอด LED Release ของ Solenoid Valve ที่ตู้ IFPC-PL-2 ไม่ติด

#### อุปกรณ์ตรวจจับ

1. Heat Detector เป็นแบบ Fix ซึ่งไม่สามารถทำการ Test ได้ 6 ตัว มีดังนี้ No. IFPC-HDT-0802 , IFPC-HDT-1101, IFPC-HDT-1503, IFPC-HDT-2601, IFPC-HDT-2602, IFPC-HDT-2705
2. Smoke Detector Zone 1, Zone 3, Zone 4, Zone 6 ไม่ได้ทำการ Test เนื่องจากการปรับปรุงระบบ ส่วน Smoke Detector Zone อื่นสามารถ ทำงานได้ปกติ

#### อุปกรณ์แจ้งเหตุด้วยมือ

1. Manual Call Point 1 ตัว No. IFPF-MCP-2001 Zone 20 ขึ้น โชว์ Trouble

#### อุปกรณ์แจ้งสัญญาณเตือน

1. Alarm Bell สามารถทำงานได้ตามปกติ
2. Alarm Horn With Strobe Light CO2 System
  - 2.1 Electrical Room Phase 1 Zone 2 เสียงทำงาน แสงไม่ทำงาน
  - 2.2 Racking Room Zone 5 เสียงทำงาน แสงทำงาน ฝาครอบแสงไม่มี





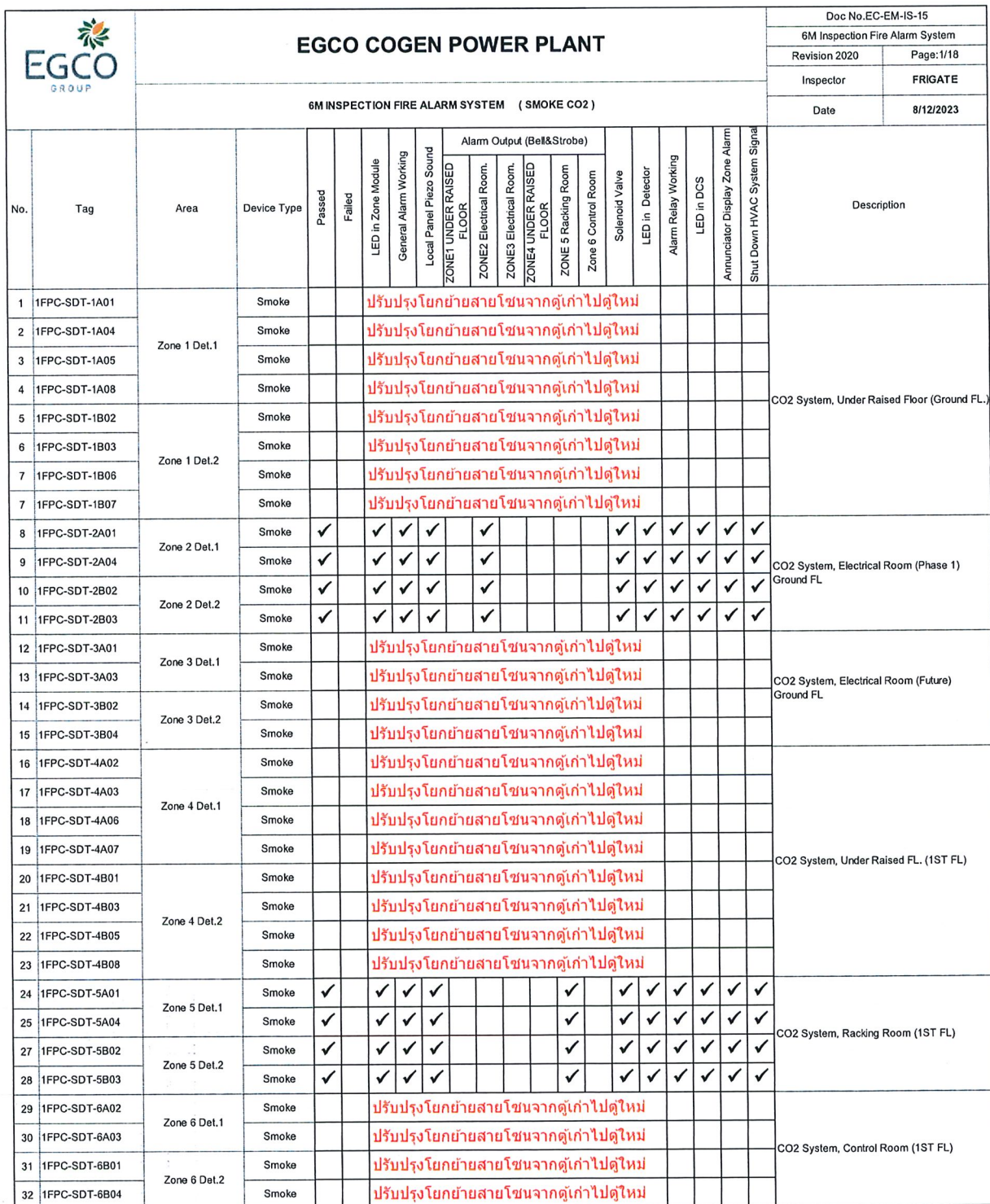
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#### ขั้นตอนการทดสอบ อุปกรณ์

1. ตรวจสอบเช็คสภาพตู้ Fire Alarm ตู้ Graphic Annunciator
2. ปิดสัญญาณเสียง Alarm Bell โดยกด Disable ที่ตู้ Fire Alarm 1FCP-PL-1
3. ปลดสาย HVAC ที่ตู้ Fire Alarm 1FCP-PL-1
4. ถอดสายโซลินอยวาล์วของถัง CO2
5. ตรวจสอบการทำงานของ Smoke Detector ที่ โซน CO2 SYSTEM ( Under Raised Floor (Ground FL.), Electrical Room (Phase1), Electrical Room (Future), Under Raised FL. (1<sup>st</sup> FL.), Racking Room, Control Room
6. เปิดคืนสัญญาณเสียง Alarm Bell โดยกด Enable ที่ตู้ Fire Alarm 1FCP-PL-1
7. ใส่สาย HVAC ที่ตู้ Fire Alarm 1FCP-PL-1
8. ใส่สายโซลินอยวาล์วถัง CO2


#### ขั้นตอนการทดสอบ CO2


1. ตรวจสอบเช็คสภาพตู้ Fire Alarm ตู้ Graphic Annunciator
2. ปิดสัญญาณเสียง Alarm Bell โดยกด Disable ที่ตู้ Fire Alarm 1FCP-PL-1
3. ปลดสาย HVAC ที่ตู้ Fire Alarm 1FCP-PL-1
4. ถอดสายโซลินอยวาล์วของถัง CO2
5. คนที่อยู่ห้อง Control จะเป็นคนสั่ง Test อุปกรณ์ตรวจจับควัน
6. Test อุปกรณ์ตรวจจับควัน Detect 1 ทำงาน ไฟ LED ที่ตู้ Fire Alarm (CO2) 1FCP-PL-3 ติดค้าง
7. Test อุปกรณ์ตรวจจับควัน Detect 2 ทำงาน ไฟ LED ที่ตู้ Fire Alarm (CO2) 1FCP-PL-3 ติดค้าง
8. คนที่อยู่ห้อง Control จะต้องแจ้งไปยังคนที่อยู่ถัง Co2 เพื่อรอ Test โซลินอยวาล์ว
9. หลังจากไฟ LED Detect 1,2 ทำงานไฟ LED จะโชว์ที่ 60 เพื่อเริ่มนับถอยหลัง
10. ไฟ LED จะโชว์ที่ 30,15 และ 30 เรียงลำดับลงมา 15 วินาที
11. คนที่อยู่ถัง Co2 ทำการ Test โซลินอยวาล์ว
12. โซลินอยวาล์วทำงาน
13. เมื่อ Test เสร็จแล้วคนที่อยู่ถัง Co2 แจ้งไปยังคนที่อยู่ห้อง Control เพื่อทำการ Reset ตู้




<div></div>		EGCO COGEN POWER PLANT															Doc No.EC-EM-IS-15					
																	6M Inspection Fire Alarm System					
		Revision 2020		Page:2/18																		
		Inspector		FRIGATE																		
6M INSPECTION FIRE ALARM SYSTEM ( SMOKE )																	Date		8/12/2023			
No.	Tag	Area	Device Type	Passed	Failed	LED in Zone Module	General Alarm Working	Local Panel Piezo Sound	Alarm Output (Bell)							LED in Detector	Alarm Relay Working	LED in DCS	Annunciator Display Zone Alarm	Shut Down HVAC System Signal	Description	
									Alarm Zone 1 Ground FL	Alarm Zone 2 Shift charge Engineer Room & Toilet	Alarm Zone 3 Office Room (2ND FL) AHU Room (Roof)	Alarm Zone 4 PEA Terminal Substation	Alarm Zone 5 22 kv Switchgear Room	Alarm Zone 6 Maintenance Shop	Alarm Zone 7 Utility Control Room							
33	1FPC-SDT-0701	Zone 7	Smoke	✓		✓	✓	✓	✓								✓	✓	✓	✓	Battery Room (Ground FL.)	
34	1FPC-SDT-0901	Zone 9	Smoke	✓		✓	✓	✓		✓							✓	✓	✓	✓	Shift Charge Engineer Room&Toilet (2ND,FL)	
35	1FPC-SDT-0902		Smoke	✓		✓	✓	✓		✓								✓	✓	✓		✓
36	1FPC-SDT-1001	Zone 10	Smoke	✓		✓	✓	✓			✓						✓	✓	✓	✓	Office Room (2ND,FL) Main. Room	
37	1FPC-SDT-1002		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Main.&Oper. MGR Room
38	1FPC-SDT-1003		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Plant MGR Room
39	1FPC-SDT-1004		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Cooling Tower Side
40	1FPC-SDT-1005		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Center
41	1FPC-SDT-1006		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) GTG1B Side
42	1FPC-SDT-1007		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Lab. Room
43	1FPC-SDT-1008		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Pantry Room
44	1FPC-SDT-1009		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Meeting Room
45	1FPC-SDT-1010		Smoke	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) Admin. Room
46	1FPA-SDT-1301	Zone 13	Smoke	✓		✓	✓	✓				✓					✓	✓	✓	✓	PEA Terminal Station	
47	1FPA-SDT-1302		Smoke	✓		✓	✓	✓					✓					✓	✓	✓		✓
48	1FPA-SDT-1401	Zone 14	Smoke	✓		✓	✓	✓					✓				✓	✓	✓	✓	2kVV SWGR Room	
49	1FPA-SDT-1402		Smoke	✓		✓	✓	✓						✓				✓	✓	✓		✓
50	1FPA-SDT-1505	Zone 15	Smoke	✓		✓	✓	✓						✓			✓	✓	✓	✓	Maintenance shop (Office Room)	
51	1FPA-SDT-1506		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	Maintenance shop (Store Room1)
52	1FPA-SDT-1507		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
53	1FPA-SDT-1508		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	Maintenance shop (Store Room2)
54	1FPA-SDT-1509		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
55	1FPA-SDT-1510		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
56	1FPA-SDT-1511		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
57	1FPA-SDT-1512		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
58	1FPA-SDT-1513		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
59	1FPA-SDT-1514		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
60	1FPA-SDT-1515		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	
61	1FPA-SDT-1516		Smoke	✓		✓	✓	✓							✓			✓	✓	✓	✓	



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									Alarm Zone 1	Ground FL	Alarm Zone 2	Shift charge Engineer Room & Toilet	Alarm Zone 3	Office Room (2ND FL)	AHU Room (Roof	Alarm Zone 4	PEA Terminal Substation	Alarm Zone 5	22 kv Switchgear Room	Alarm Zone 6	Maintenance Shop	Alarm Zone 7	Utility Control Room													
62	1FPA-SDT-1517	Zone 15	Smoke	✓		✓	✓	✓												✓		✓	✓	✓	✓	✓								Maintenance shop (Store Room2)		
63	1FPA-SDT-1518		Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓									
64	1FPA-SDT-1519		Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓									
65	1FPA-SDT-1520		Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓									
66	1FPA-SDT-1521		Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓									
67	1FPA-SDT-1524		Zone 15	Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓							Maintenance OFFICE Field Service	
68	1FPA-SDT-1525			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
69	1FPA-SDT-1526			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
70	1FPA-SDT-1527			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
71	1FPA-SDT-1528			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
72	1FPA-SDT-1529			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
73	1FPA-SDT-1530			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
74	1FPA-SDT-1531			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
75	1FPA-SDT-1532			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
76	1FPA-SDT-1533			Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓	✓								
77	1FPA-SDT-1603	Zone 16	Smoke	✓		✓	✓	✓													✓		✓	✓	✓	✓								Water Plant Control Room		
78	1FPA-SDT-1604		Smoke	✓		✓	✓	✓														✓		✓	✓	✓	✓									
79	1FPF-SDT-2304	Zone 23	Smoke	✓		✓	✓	✓														✓	✓	✓	✓	✓								GTG-1A's Area (Mark V Room)		
80	1FPF-SDT-2305		Smoke	✓		✓	✓	✓															✓	✓	✓	✓	✓									
81	1FPF-SDT-2306		Smoke	✓		✓	✓	✓															✓	✓	✓	✓	✓									
82	1FPF-SDT-2404	Zone 24	Smoke	✓		✓	✓	✓														✓	✓	✓	✓	✓								GTG-1B's Area (Mark V Room)		
83	1FPF-SDT-2405		Smoke	✓		✓	✓	✓															✓	✓	✓	✓	✓									
84	1FPF-SDT-2406		Smoke	✓		✓	✓	✓															✓	✓	✓	✓	✓									


<div></div>		EGCO COGEN POWER PLANT														Doc No.EC-EM-IS-15							
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		6M INSPECTION FIRE ALARM SYSTEM ( HEAT )														Revision 2020	Page:4/18						
																Inspector	FRIGATE						
																Date	8/12/2023						
No.	Tag	Area	Device Type	Passed	Failed	LED in Zone Module	General Alarm Working	Local Panel Piezo Sound	Alarm Output (Bell)							LED in Detector	Alarm Relay Working	LED in DCS	Annunciator Display Zone Alarm	Shut Down HVAC System Signal	Description		
									Alarm Zone 1 Ground FL	Alarm Zone 2 Shift charge Engineer Room & Toilet	Alarm Zone 3 Office Room (2ND FL.) AHU Room (Roof	Alarm Zone 4 PEA Terminal Substation	Alarm Zone 5 22 kv Switchgear Room	Alarm Zone 6 Maintenance Shop	Alarm Zone 7 Utility Control Room								
1	1FPC-HDT-0801	Zone 8	Heat	✓		✓	✓	✓	✓								✓	✓	✓	✓	✓	Transformer Room (Ground FL.)	
2	1FPC-HDT-0802		Heat		Heat Fix Not Test																		
3	1FPC-HDT-0903	Zone 9	Heat	✓		✓	✓	✓		✓							✓	✓	✓	✓	✓	Shift Charge Engineer Room & Toilet (1ST.FL.)	
4	1FPC-HDT-1013	Zone 10	Heat	✓		✓	✓	✓			✓						✓	✓	✓	✓	✓	Office Room (2ND.FL.) Men Toilet	
5	1FPC-HDT-1014		Heat	✓		✓	✓	✓			✓							✓	✓	✓	✓	✓	Office Room (2ND.FL.) Women Toilet
6	1FPC-HDT-1101	Zone 11	Heat		Heat Fix Not Test																	AHU Room (Roof FL.)	
7	1FPC-HDT-1102		Heat	✓		✓	✓	✓			✓							✓	✓	✓	✓		✓
8	1FPA-HDT-1503	Zone 15	Heat		Heat Fix Not Test																	Maintenance Shop (Toilet)	
9	1FPA-HDT-1504		Heat	✓		✓	✓	✓							✓			✓	✓	✓	✓		
10	1FPA-HDT-1522		Heat	✓		✓	✓	✓							✓			✓	✓	✓	✓		Maintenance Shop (Diesel Room)
11	1FPF-HDT-2601	Zone 26	Heat		Heat Fix Not Test																	Air Compressor Unit	
12	1FPF-HDT-2602		Heat		Heat Fix Not Test																		
13	1FPF-HDT-2701	Zone 27	Heat	✓		✓	✓	✓									✓	✓	✓	✓		EDG & Aux. Boiler Unit	
14	1FPF-HDT-2702		Heat	✓		✓	✓	✓										✓	✓	✓	✓		
15	1FPF-HDT-2703		Heat	✓		✓	✓	✓										✓	✓	✓	✓		
16	1FPF-HDT-2704		Heat	✓		✓	✓	✓										✓	✓	✓	✓		
17	1FPF-HDT-2705		Heat		Heat Fix Not Test																		
18	1FPF-HDT-2903	Zone 29	Heat	✓		✓	✓	✓									✓	✓	✓	✓		Water Treatment Aea	




<div></div>		EGCO COGEN POWER PLANT															Doc No.EC-EM-IS-15							
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6M INSPECTION FIRE ALARM SYSTEM ( Manual Call Point )																	Date	8/12/2023						
No.	Tag	Area	Device Type	Passed	Failed	LED in Zone Module	General Alarm Working	Local Panel Piezo Sound	Alarm Output (Bell)								LED in Detector	Alarm Relay Working	LED in DSC	Annunciator Display Zone Alarm	Shut Down HVAC System Signal	Description		
									Alarm Zone 1 Ground FL	Alarm Zone 2 Shift charge Engineer Room & Toilet	Alarm Zone 3 Office Room	Alarm Zone 3 AHU Room (Roof (2ND FL))	Alarm Zone 4 PEA Terminal Substation	Alarm Zone 5 22 kv Switchgear Room	Alarm Zone 6 Maintenance Shop	Alarm Zone 7 Utility Control Room								
1	1FPC-MCP-1011	Zone 10	Call Point	✓		✓	✓	✓			✓						✓	✓	✓	✓	Office Room (2ND,FL) Cooling Tower Side			
2	1FPC-MCP-1012		Call Point	✓		✓	✓	✓			✓							✓	✓	✓	✓	Office Room (2ND,FL) GTG1B Side		
3	1FPC-MCP-1103	Zone 11	Call Point	✓		✓	✓	✓			✓							✓	✓	✓	✓	AHU Room (Roof FL.)		
4	1FPA-MCP-1303	Zone 13	Call Point	✓		✓	✓	✓					✓					✓	✓	✓		PEA Terminal Station		
5	1FPA-MCP-1403	Zone 14	Call Point	✓		✓	✓	✓						✓				✓	✓	✓		22kv SWGR Room		
6	1FPA-MCP-1501	Zone 15	Call Point	✓		✓	✓	✓							✓			✓	✓	✓		Maintenance shop (store Room1)		
7	1FPA-MCP-1502		Call Point	✓		✓	✓	✓								✓			✓	✓	✓		Maintenance Shop (Diesel Room)	
8	1FPA-MCP-1523		Call Point	✓		✓	✓	✓	✓								✓			✓	✓	✓	Maintenance OFFICE Field Service	
9	1FPA-MCP-1534		Call Point	✓		✓	✓	✓	✓								✓			✓	✓	✓		
10	1FPA-MCP-1601	Zone 16	Call Point	✓		✓	✓	✓								✓			✓	✓	✓		Utility Control Room	
11	1FPA-MCP-1602		Call Point	✓		✓	✓	✓	✓									✓		✓	✓	✓		
12	1FPF-MCP-1701	Zone 17	Call Point	✓		✓	✓	✓										✓	✓	✓		Transformer 1APF-XF-1 (115/22KV No.1)		
13	1FPF-MCP-1703		Call Point	✓		✓	✓	✓	✓										✓	✓	✓		Transformer 1APF-XF-2 (115/22KV No.2)	
14	1FPF-MCP-1801	Zone 18	Call Point	✓		✓	✓	✓										✓	✓	✓		GTG1A's Transformer 1GTL-XF-1 (11/115KV)		
15	1FPF-MCP-1901	Zone 19	Call Point	✓		✓	✓	✓										✓	✓	✓		GTG1B's Transformer 1GTL-XF-2 (11/115KV)		
16	1FPF-MCP-2001	Zone 20	Call Point	✓		✓	✓	✓										✓	✓	✓		STG's Transformer 1GTB-XF-1 (11/115KV)		
17	1FPF-MCP-2301	Zone 23	Call Point	✓		✓	✓	✓										✓	✓	✓		GTG1A's Area		
18	1FPF-MCP-2302		Call Point	✓		✓	✓	✓	✓										✓	✓	✓			
19	1FPF-MCP-2303		Call Point	✓		✓	✓	✓	✓										✓	✓	✓			
20	1FPF-MCP-2401	Zone 24	Call Point	✓		✓	✓	✓										✓	✓	✓		GTG1B's Area		
21	1FPF-MCP-2402		Call Point	✓		✓	✓	✓	✓										✓	✓	✓			
22	1FPF-MCP-2403		Call Point	✓		✓	✓	✓	✓										✓	✓	✓			
23	1FPF-MCP-2501	Zone 25	Call Point	✓		✓	✓	✓										✓	✓	✓		STG's Area		
24	1FPF-MCP-2502		Call Point	✓		✓	✓	✓	✓										✓	✓	✓			
25	1FPF-MCP-2603	Zone 26	Call Point	✓		✓	✓	✓										✓	✓	✓		Air Compressor		
26	1FPF-MCP-2706	Zone 27	Call Point	✓		✓	✓	✓										✓	✓	✓		EDG & Aux. Boiler Room		
27	1FPF-MCP-2801	Zone 28	Call Point	✓		✓	✓	✓										✓	✓	✓		Cooling Tower		
28	1FPF-MCP-2901	Zone 29	Call Point	✓		✓	✓	✓										✓	✓	✓		Water Treatment's Area		
29	1FPF-MCP-2902		Call Point	✓		✓	✓	✓	✓										✓	✓	✓			
30	1FPF-MCP-3001	Zone 30	Call Point	✓		✓	✓	✓										✓	✓	✓		Waste Water's Area		
31	1FPF-MCP-3101	Zone 31	Call Point	✓		✓	✓	✓										✓	✓	✓		Fire Pump Unit		




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		6M INSPECTION FIRE ALARM SYSTEM (BELL)			Date	8/12/2023
No.	Tag	Area	Device Type	Alarm Tested		Description
				Passed	Failed	
1	1FPC-BEL-0101	Zone 7	Alarm Bell Zone 1	✓		Battery Room (Ground FL.)
2	1FPC-BEL-0102	Zone 8	Alarm Bell Zone 1	✓		Transformer Room (Ground FL.)
3	1FPC-BEL-0201	Zone 9	Alarm Bell Zone 2	✓		Shift Charge Room & Toilet (1ST.FL.)
3	1FPC-BEL-0202		Alarm Bell Zone 2	✓		
3	1FPC-BEL-0301	Zone 10	Alarm Bell Zone 3	✓		Office Room (2ND,FL) GTG1B Side
4	1FPC-BEL-0302		Alarm Bell Zone 3	✓		Office Room (2ND,FL) Cooling Tower Side
5	1FPC-BEL-0303	Zone 11	Alarm Bell Zone 3	✓		AHU Room (Roof FL.)
6	1FPA-BEL-0401	Zone 13	Alarm Bell Zone 4	✓		PEA Terminal Station
7	1FPA-BEL-0501	Zone 14	Alarm Bell Zone 5	✓		22kV SWGR Room
8	1FPA-BEL-0601	Zone 15	Alarm Bell Zone 6	✓		Maintenance shop (Office & Store Room2)
9	1FPA-BEL-0602		Alarm Bell Zone 6	✓		
10	1FPA-BEL-0603		Alarm Bell Zone 6	✓		
11	1FPA-BEL-0604		Alarm Bell Zone 6	✓		
12	1FPA-BEL-0605		Alarm Bell Zone 6	✓		Maintenance OFFICE Field Service
13	1FPA-BEL-0701	Zone 16	Alarm Bell Zone 7	✓		Utility Control Room

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	Date		8/12/2023
6M INSPECTION FIRE ALARM SYSTEM ( Legend )			

1. LED in Zone Module




2. General Alarm Working



3. Local Panel Piezo Sound

เสียง Buzzer จากตู้ Contorl


4. Alarm Output (Bell&Strobe)




5. Solinoid Valve




6. LED in Detector



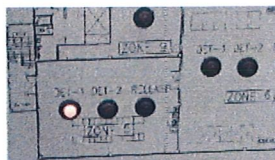
7. Alarm Relay Working



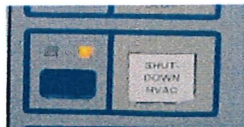
8. LED in DCS



9. Annunciator Display Zone Alarm



10. Shut Down HVAC System Signal





## EGCO COGEN POWER PLANT

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Picture 1 Fire Alarm Panel



Picture 2 Smoke Detector



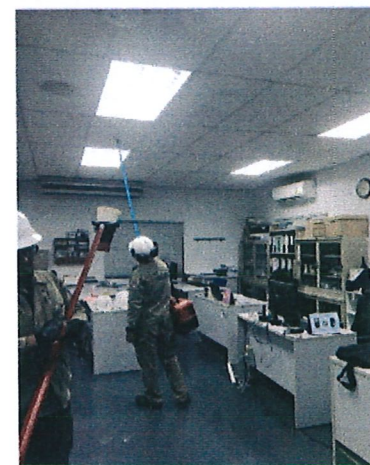
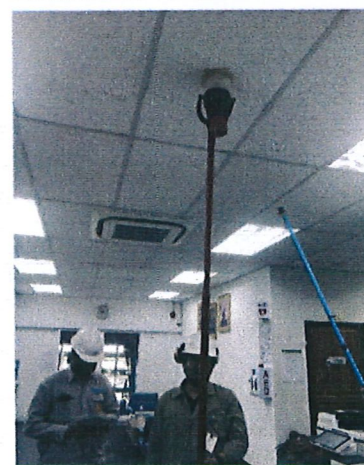
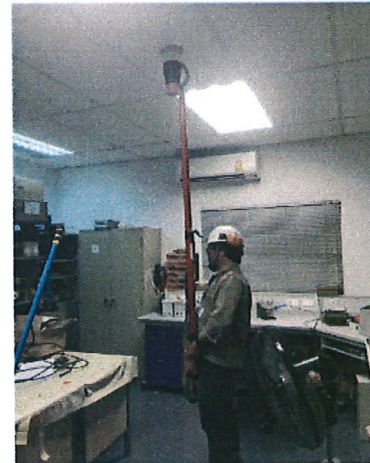
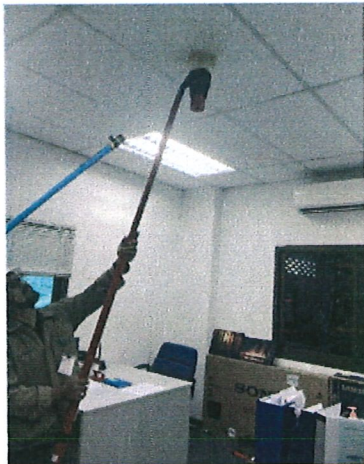
Picture 3 Manual Call Point



## EGCO COGEN POWER PLANT

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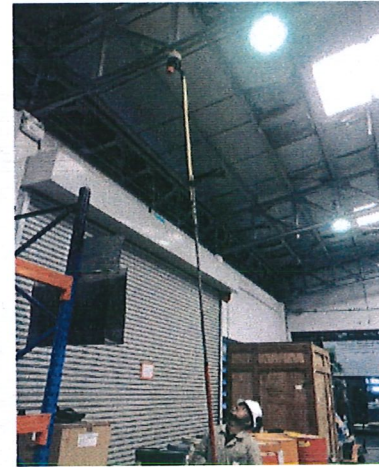
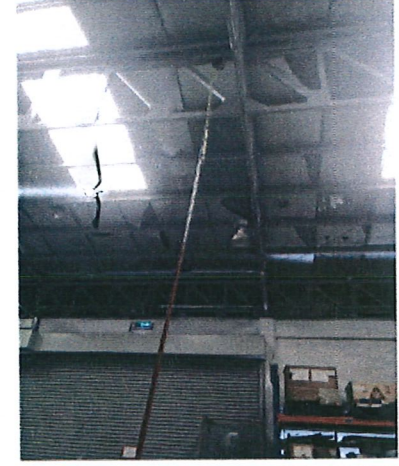
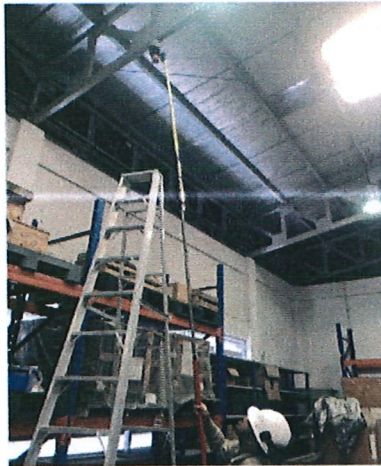
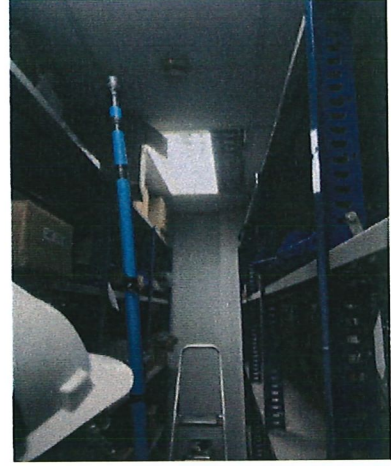




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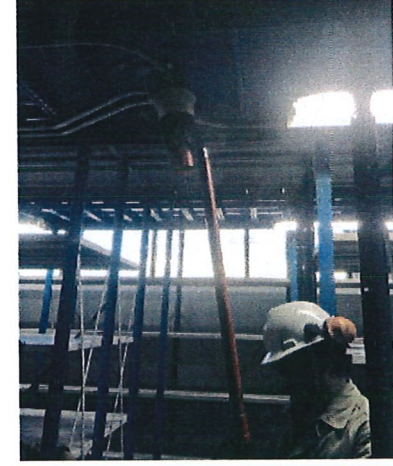
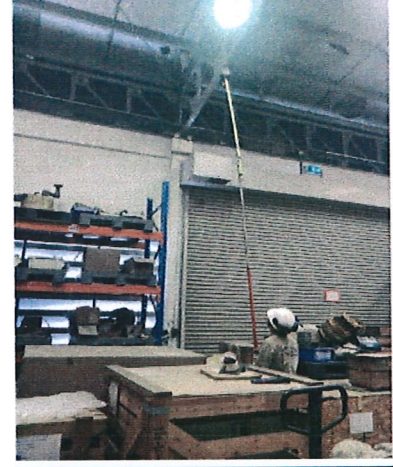
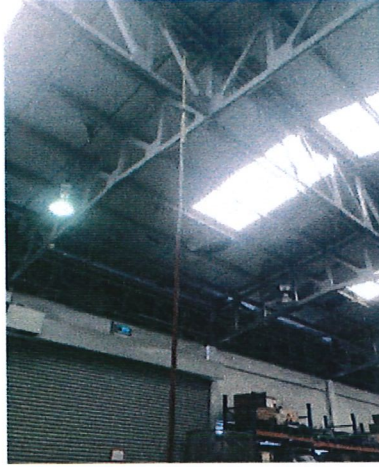
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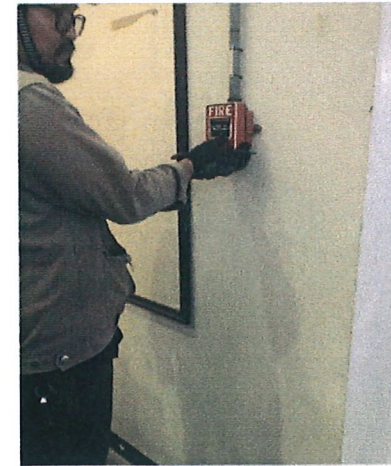
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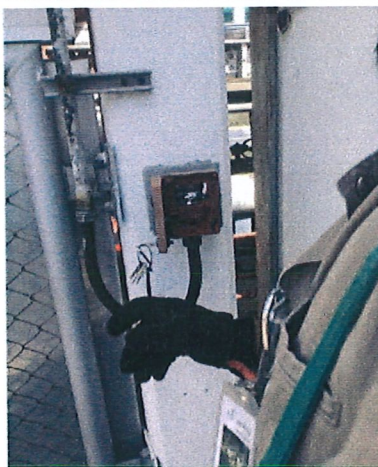
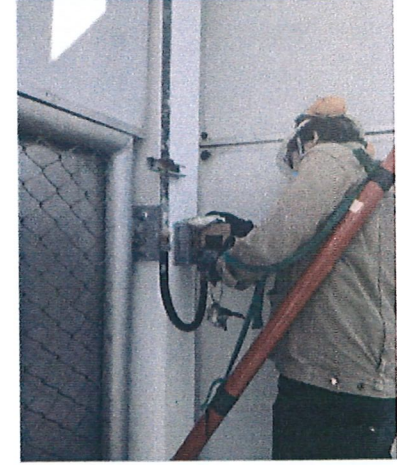
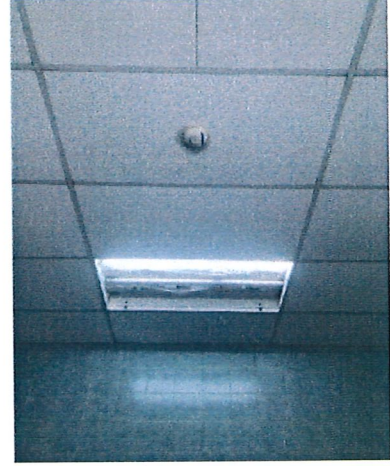




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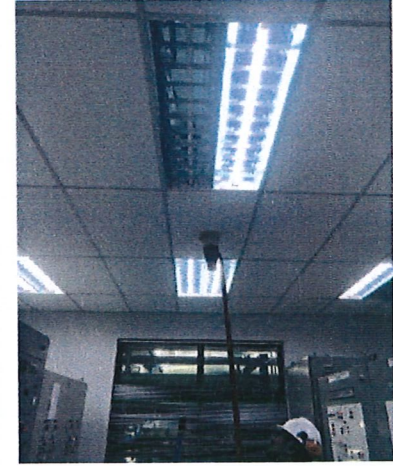
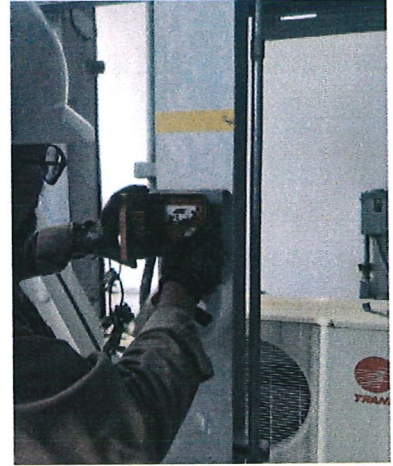
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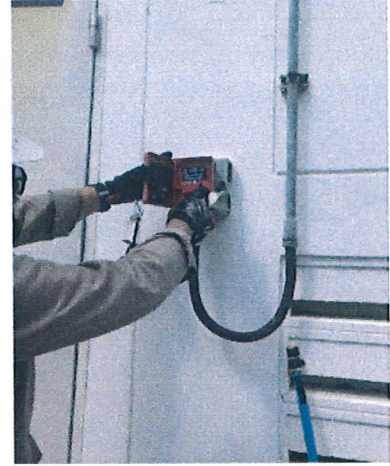
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**9-Jun-23**





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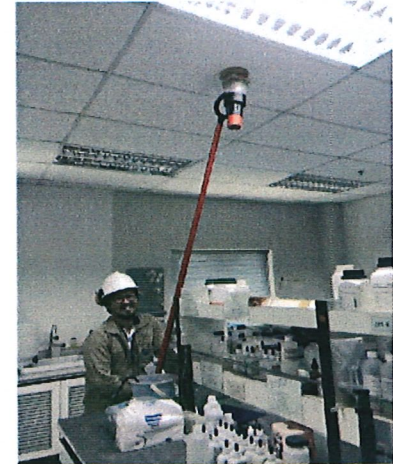
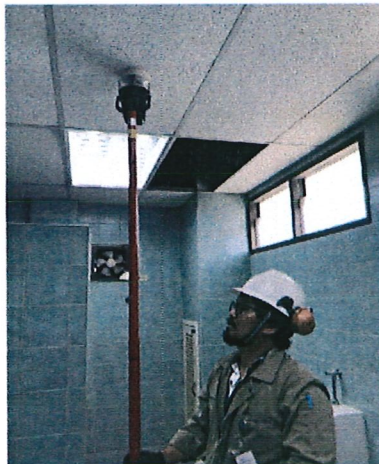
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# **PERFORMANCE TEST REPORT**



## **Fire Water Pump Performance Test**

26 - October – 2023

## **EGCO COGENERATION POWER PLANT**

222 Moo 8, Mabkha, Amphur Nikhom Phattana, Rayong 21180  
Tel. +66(0) 3863 7051-57, Fax. +66(0) 80 792 7922



## **Contents**

- 1) Pump Name Plate
- 2) Pump Test & Record
- 3) APPENDIX-A Certificate of Instrument
  - Water Flow Meter
  - Pressure Gauge
  - Tachometer

## **1. PUMP NAME PLATE**



Name plate of electrical fire pump 1WSE-P-1





Name plate of diesel engine fire pump 1WSE-P-2





Name plate of fire water jockey pump 1WSE-P-3

## 2. PUMP TEST RECORD

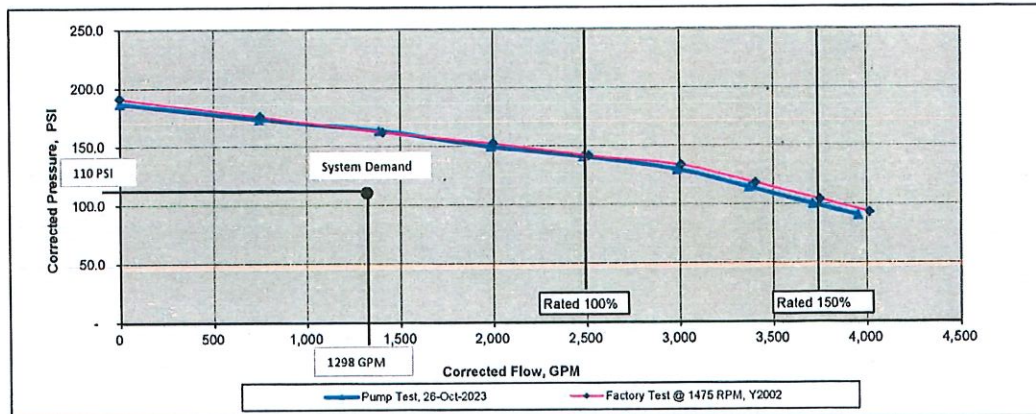


FIRE PUMP TEST											
ACCOUNT NAME EGCO COGENERATION POWER PLANT						Contractor Name:		Phone Number: 66807927922			
ADDRESS 222 MOO 8, MABKHA, AMPHUR NIKHOM PHATTANA, RAYONG						TESTED BY		TESTED DATE 26-Oct-2023			
CITY				STATE		POST CODE 21180		COUNTRY THAILAND			
EQUIPMENT NAME ELECTRICAL FIRE WATER PUMP						I.D. 1 WSE-P-1		CENTRIFUGAL, VERTICAL TURBINE MOTOR FIRE PUMP			
Pump	Shaft <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/> VERTICAL		Manufacturer FAIRBANKS MORSE		Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Shop/Serial No. 375870-0		Model/Type 17 M 7000F		
	Rated USGPM 2,500		Rated head (psi) 141.9		Rated RPM 1,475		Suction From RAW WATER POND		Tank Size		Tank Height
If Vertical	Vertical Dist. Discharge Gauge to Water Level		Static psi (kpa) 9.2 feet (m)		Right Angle Gear Drive <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Manufacturer		Shop/Serial No.		Approved <input type="checkbox"/> YES <input type="checkbox"/> NO
							Model/Type		Performance <input type="checkbox"/> SMOOTH <input checked="" type="checkbox"/> ROUGH		
Driver	Manufacturer U.S. ELECTRIC MOTOR		Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Shop/Serial No. F0201010086-100-01-NRR		Model/Type 5811P		Rated HP 300		Rated RPM 1490
	<input checked="" type="checkbox"/> ELECTRIC MOTOR		Rated Voltage 6,600		Operating Voltage		Rated F.L. Amps 23.5		Amps at 150% 3		Cycles 50
	<input type="checkbox"/> DIESEL ENGINE <input type="checkbox"/> GASOLINE ENGINE <input type="checkbox"/> GAS ENGINE <input type="checkbox"/> STEAM TURBINE						PRESS. GOVERNOR BUILT-IN		<input type="checkbox"/> INDEPENDENT <input type="checkbox"/> TURBINE STEAM PRESS		
Controller	Manufacturer FIRETROL		Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Start <input type="checkbox"/> MANUAL <input checked="" type="checkbox"/> AUTO		119.5 psi (kpa) Pressure Drop Water Flow		Stop <input checked="" type="checkbox"/> MANUAL <input type="checkbox"/> AUTO		Jockey Pump psi (kpa) <input type="checkbox"/> YES ON <input type="checkbox"/> NO OFF
	Shop/Serial No. 101647-005-01-01										
	Model/Type FTA2000-AH300R-X										

Test #	Disch. P <sub>g</sub> Vert. Dist. (feet)	Discharge P <sub>g</sub>		Velocity Head (feet)	Net Head		Speed		Flow Rate Actual US GPM	Corrected Flow Rate US GPM	Corrected Pressure PSI	Percentage Rated Capacity	Current Amps	Voltage Volts	P.F.
		Actual PSI	Head (feet)		PSI	Head (feet)	Actual rpm	Standard rpm							
1	9.2	188.2	434.7	-	443.9	192.2	1,495	1,475	0	0	187.1	0.0%	16.3	6.9	90.0
2	9.2	174.3	402.6	0.2	412.0	178.3	1,495	1,475	754.0	743.9	173.6	29.8%	17.1	6.9	90.0
3	9.2	163.6	377.9	0.5	387.6	167.8	1,494	1,475	1,404.0	1,386.1	163.6	55.4%	17.1	6.9	90.0
4	9.2	148.4	342.8	1.1	353.1	152.8	1,492	1,475	2,011.0	1,988.1	149.3	79.5%	18.6	6.9	90.0
5	9.2	139.9	323.2	1.7	334.0	144.6	1,494	1,475	2,511.0	2,479.1	140.9	99.2%	20.0	6.9	90.0
6	9.2	127.9	295.4	2.4	307.1	132.9	1,492	1,475	3,020.0	2,985.6	129.9	119.4%	21.0	6.9	90.0
7	9.2	111.9	258.5	3.1	270.8	117.2	1,494	1,475	3,412.0	3,368.6	114.2	134.7%	21.0	6.9	90.0
8	9.2	97.0	224.1	3.7	237.0	102.6	1,494	1,475	3,759.0	3,711.2	100.0	148.4%	20.2	6.9	90.0
9	9.2	87.0	201.0	4.2	214.4	92.8	1,494	1,475	4,005.0	3,954.1	90.5	158.2%	20.2	6.9	90.0

WATER CONDITION: 1) TEMPERATURE 30.0 °C 2) SPECIFIC GRAVITY 1.0

CORRECTED PRESSURE =  $\frac{\text{NET HEAD} \times \text{STANDARD SPEED}^2}{\text{ACTUAL SPEED}^2}$  CORRECTED FLOW =  $\frac{\text{ACTUAL FLOW} \times \text{STANDARD SPEED}}{\text{ACTUAL SPEED}}$



<b>EVALUATED</b>			
<b>Pump General Condition</b>			
Leakage	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	
Noise	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	
<b>Pump Curve Comparison</b>			
Flow Rate (US GPM)	0 (Churn)	2,500 (100% Rated)	3,750 (150% Rated)
Factory Test Year 2002	191.4	141.9	103.9
Pump Test 26-Oct-2023	187.1	140.5	98.5
Deviation (%)	-2.3%	-1.0%	-5.2%
NFPA 25 para. 5.3.5.4 The pump shall be capable of supplying the maximum system demand <input type="checkbox"/> Yes <input type="checkbox"/> No			
NFPA 25 para. 5.3.5.3 - Current and voltage readings whose product does not exceed the product of the rated voltage and rated full-load current multiplied by the permitted motor service factor <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
- Voltage reading at the motor within 5 percent below or 10 percent above the rated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>RESULT</b> <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory			
<b>TESTED BY</b> NAME <u>(Mr. Amnat Duangwanthong)</u> DATE <u>26-Oct-23</u> MECH. ENG. EGCO Cogen Power Plant		<b>WITNESSED BY</b> NAME <u>(Mr. Rachen Jammamee)</u> DATE <u>26-Oct-23</u> OPT. EGCO Cogen Power Plant	
<b>APPROVED BY</b> NAME <u>(Mr. Wachirapong Pongkitwiton)</u> DATE <u>26-Oct-23</u> MTN. MGR. EGCO Cogen Power Plant			



FIRE PUMP TEST			
ACCOUNT NAME EGCO COGENERATION POWER PLANT		Contractor Name:	Phone Number: 66807927922
ADDRESS 222 MOO 8, MABKHA, AMPHUR NIKHOM PHATTANA, RAYONG		TESTED BY	TESTED DATE 26-Oct-2023
CITY	STATE	POST CODE 21180	COUNTRY THAILAND

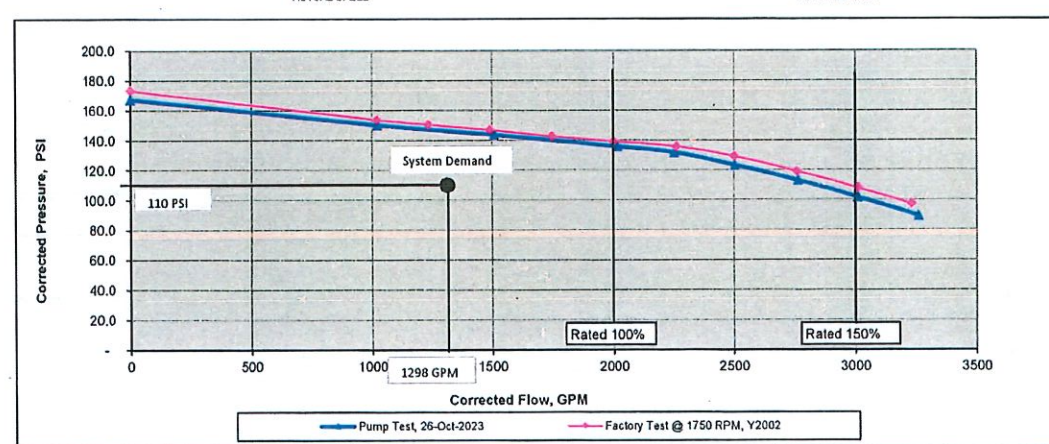
EQUIPMENT NAME DIESEL FIRE WATER PUMP	I.D. 1 WSE-P-2	CENTRIFUGAL, VERTICAL TURBINE ENGINE FIRE PUMP
--	-------------------	---

Pump	Shaft <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/> VERTICAL	Manufacturer FAIRBANKS MORSE	Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Shop/Serial No. 375025	Model/Type 15 H 7000F	
	Rated USGPM 2,000	Rated head (psi) 136	Rated RPM 1,750	Suction From RAW WATER POND	Tank Size	Tank Height
If Vertical	Vertical Dist. Discharge Gauge to Water Level	Static psi (kpa) 9.2 feet (m)	Right Angle Gear Drive <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Manufacturer RANDOLPH	Shop/Serial No. R0201002	Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
				Model/Type G 250	Performance <input type="checkbox"/> SMOOTH <input type="checkbox"/> ROUGH	
Driver	Manufacturer CLARKE	Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Shop/Serial No. PE0608E013060	Model/Type JU6H UF60	Rated HP 240	Rated RPM 2100
	<input type="checkbox"/> ELECTRIC MOTOR	Rated Voltage	Operating Voltage	Rated F.L. Amps	Amps at 150%	Phase
	<input checked="" type="checkbox"/> DIESEL ENGINE	<input type="checkbox"/> GASOLINE ENGINE	<input type="checkbox"/> GAS ENGINE	<input type="checkbox"/> STEAM TURBINE	<input type="checkbox"/> PRESS. GOVERNOR BUILT-IN	<input type="checkbox"/> INDEPENDENT <input type="checkbox"/> TURBINE STEAM PRESS
Controller	Manufacturer FIRETROL	Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Start <input type="checkbox"/> MANUAL <input checked="" type="checkbox"/> AUTO	109.4 psi (kpa) Pressure Drop Water Flow	Stop <input checked="" type="checkbox"/> MANUAL <input type="checkbox"/> AUTO	Jockey Pump psi (kpa) <input type="checkbox"/> YES ON <input type="checkbox"/> NO OFF
	Shop/Serial No. 101647-004-01-01					
	Model/Type FTA1100-EL-12N-BA-GZ-E-M					

Test #	Disch. P <sub>g</sub> Vert. Dist. (feet)	Discharge P <sub>g</sub>		Velocity Head (feet)	Net Head		Speed		Flow Rate Actual US GPM	Corrected Flow Rate US GPM	Corrected Pressure PSI	Percentage Rated Capacity	Current (Amps)		
		Actual PSI	Head (feet)		(feet)	PSI	Actual (rpm)	Standard (rpm)					W	Y	R
1	9.2	176.0	406.6	-	415.8	180.0	1,815	1,750	0	0	167.3	0.0%			
2	9.2	155.1	359.3	0.3	367.8	159.2	1,803	1,750	1,008.0	1,021.0	150.0	51.1%			
3	9.2	146.5	338.4	0.6	348.2	150.7	1,793	1,750	1,506.0	1,508.0	143.6	75.4%			
4	9.2	136.0	314.2	1.1	324.4	140.4	1,781	1,750	2,001.0	2,016.0	135.6	100.8%			
5	9.2	130.9	302.4	1.3	312.9	135.5	1,775	1,750	2,252.0	2,255.0	131.7	112.8%			
6	9.2	121.5	280.7	1.7	291.5	126.2	1,772	1,750	2,502.0	2,504.0	123.1	125.2%			
7	9.2	109.8	253.6	2.0	264.8	114.7	1,764	1,750	2,751.0	2,763.0	112.9	138.2%			
8	9.2	98.4	227.3	2.4	238.9	103.4	1,765	1,750	3,015.0	3,010.0	101.6	150.5%			
9	9.2	86.1	198.9	2.8	210.9	91.3	1,770	1,750	3,250.0	3,261.0	89.2	163.1%			

WATER CONDITION; 1) TEMPERATURE 30.0 °C 2) SPECIFIC GRAVITY 1.0

CORRECTED PRESSURE =  $\frac{\text{NET HEAD} \times \text{STANDARD SPEED}^2}{\text{ACTUAL SPEED}^2}$  CORRECTED FLOW =  $\frac{\text{ACTUAL FLOW} \times \text{STANDARD SPEED}}{\text{ACTUAL SPEED}}$



EVALUATED			
Pump General Condition			
Leakage	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	
Noise	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	
Pump Curve Comparison			
Flow Rate (US GPM)	0 (Churn)	2,000 (100% Rated)	3,000 (150% Rated)
Factory Test Year 2002	173.7	139.4	107.8
PumpTest 26-Oct-2023	167.3	135.8	102.1
Deviation (%)	-3.7%	-2.6%	-5.3%
NFPA 25 para. 5.3.5.4			
The pump shall be capable of supplying the maximum system demand <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
RESULT <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory			

TESTED BY NAME (Mr. Annat Duangwanthong) DATE 26-Oct-23 MECH. ENG. EGCO Cogen Power Plant	WITNESSED BY NAME (Mr. Rachen Jammaeae) DATE 26-Oct-23 OPT. EGCO Cogen Power Plant	APPROVED BY NAME (Mr. Wachirapong Pongkitvitoon) DATE 26-Oct-23 MTN. MGR. EGCO Cogen Power Plant
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FIRE PUMP TEST			
ACCOUNT NAME EGCO COGENERATION POWER PLANT		Contractor Name:	
ADDRESS 222 MOO 8, MABKHA, AMPHUR NIKHOM PHATTANA, RAYONG		Phone Number: 66807927922	
CITY		TESTED BY	TESTED DATE 26-Oct-2023
STATE		POST CODE 21180	COUNTRY THAILAND

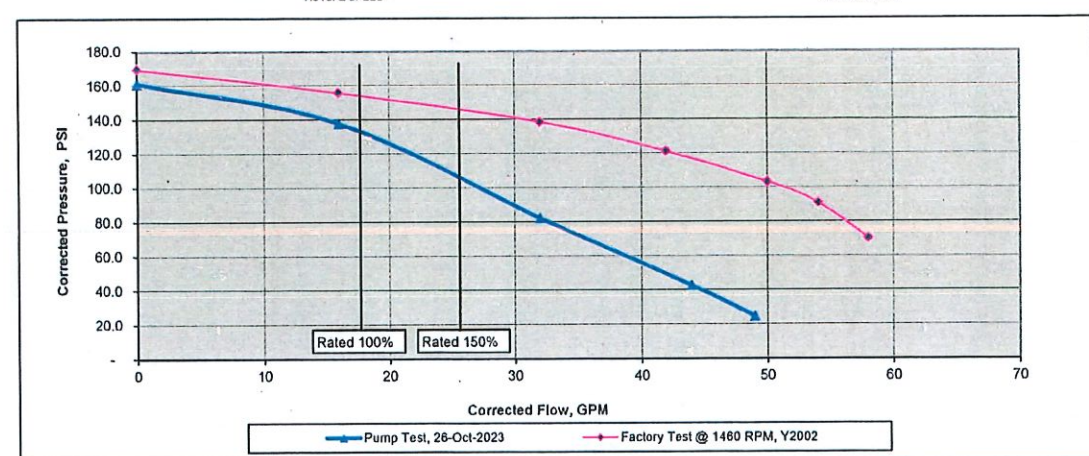
EQUIPMENT NAME FIRE WATER JOCKEY PUMP	I.D. 1 WSE-P-3	CENTRIFUGAL, VERTICAL TURBINE JOCKEY PUMP
--	-------------------	--

Pump	<input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/> VERTICAL		Manufacturer FAIRBANKS MORSE		Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Shop/Serial No. 381066		Model/Type 6 A 7000 W	
	Rated USGPM 17.6		Rated head (psi) 155.8		Rated RPM 1,460		Suction From RAW WATER POND		Tank Size	
If Vertical	Vertical Dist. Discharge Gauge to Water Level		Static psi (kpa) 9.2		Right Angle Gear Drive <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Manufacturer		Shop/Serial No.	
							Model/Type		Performance <input type="checkbox"/> SMOOTH <input type="checkbox"/> ROUGH	
Driver	Manufacturer U.S. ELECTRIC MOTOR		Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Shop/Serial No. F010009463100F		Model/Type 184 TP		Rated KW 3.7	
	<input checked="" type="checkbox"/> ELECTRIC MOTOR		Rated Voltage 380		Operating Voltage		Rated F.L. Amps 8.5		Amps at 150%	
	<input type="checkbox"/> DIESEL ENGINE		<input type="checkbox"/> GASOLINE ENGINE		<input type="checkbox"/> GAS ENGINE		<input type="checkbox"/> STEAM TURBINE		<input type="checkbox"/> PRESS. GOVERNOR BUILT-IN	
	<input type="checkbox"/> INDEPENDENT		<input type="checkbox"/> TURBINE STEAM PRESS							
Controller	Manufacturer FIRETROL		Approved <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Start 124.7 psi (kpa)		Stop 134.8 psi (kpa)		Jockey Pump	
	Shop/Serial No. 101647-007-01-01				<input type="checkbox"/> MANUAL <input checked="" type="checkbox"/> AUTO		<input type="checkbox"/> MANUAL <input checked="" type="checkbox"/> AUTO		<input checked="" type="checkbox"/> YES ON <input type="checkbox"/> NO OFF	
	Model/Type FTA500-AF05F-AC-AM-BW-BX-E-GZ-M									

Test #	Disch. P <sub>g</sub> Vert. Dist. (feet)	Discharge P <sub>g</sub>		Velocity Head (feet)	Net Head		Speed		Flow Rate Actual US GPM	Corrected Flow Rate US GPM	Corrected Pressure PSI	Percentage Rated Capacity	Current (Amps)		
		Actual PSI	Head (feet)		(feet)	PSI	Actual (rpm)	Standard (rpm)					W	Y	R
1	9.2	160.3	370.3	-	379.5	164.3	1,475	1,460	0	0	161.0	0%			
2	9.2	135.4	312.8	0.00	322.0	139.4	1,469	1,460	16.0	16.0	137.7	91%			
3	9.2	77.5	179.0	0.01	188.2	81.5	1,455	1,460	32.0	32.0	82.1	182%			
4	9.2	38.2	88.2	0.02	97.5	42.2	1,455	1,460	42.0	44.0	42.5	239%			
5	9.2	20.2	46.7	0.02	55.9	24.2	1,454	1,460	48.0	49.0	24.4	273%			
6															
7															

WATER CONDITION: 1) TEMPERATURE 30.0 °C 2) SPECIFIC GRAVITY 1.0

CORRECTED PRESSURE =  $\frac{\text{NET HEAD} \times \text{STANDARD SPEED}^4}{\text{ACTUAL SPEED}^4}$       CORRECTED FLOW =  $\frac{\text{ACTUAL FLOW} \times \text{STANDARD SPEED}}{\text{ACTUAL SPEED}}$



<b>EVALUATED</b>			
Pump General Condition			
Leakage	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	
Noise	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	
Pump Curve Comparison			
Flow Rate (US GPM)	0 (Churn)	17.6 (100% Rated)	26.4 (150% Rated)
Factory Test Year 2002	169.7	155.0	144.0
Pump Test 26-Oct-2023	161.0	132.1	101.5
Deviation (%)	-5.1%	-14.8%	-29.5%
RESULT <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory			

TESTED BY 	WITNESSED BY 	APPROVED BY 
NAME (Mr. Amnat Duangwanthong)	NAME (Mr. Rachen Jammamee)	NAME (Mr. Wachirapong Pongkitwitoon)
DATE 26-Oct-23	DATE 26-Oct-23	DATE 26-Oct-23
MECH. ENG. EGCO Cogen Power Plant	OPT. EGCO Cogen Power Plant	MTN. MGR. EGCO Cogen Power Plant

### 3. APPENDIX-A

#### - Certificate of Instrument

##### 3.1 Water Flow Meter





MIRACLE INTERNATIONAL TECHNOLOGY CO.,LTD

214 Bangwaek Rd. Bangpai Bangkae Bangkok 10160

Tel.: 0-2865-4647-8 Fax: 0-2865-4649 <http://www.mit.in.th>



070

## CALIBRATION CERTIFICATE

Certificate No. : SS2104-100-0007

Date Issued : 21-Apr-21

**Customer &** : Egco Engineering & Service Company Limited.  
**Calibrated Place** : 35 Rayong Highway 3191 Huay Pong, Amphure Muang, Rayong 21150

**Equipment** : Magnetic Flow Meter 8"  
**Manufacturer** : ENDRESS+HAUSER  
**Model** : PROMAG 10  
**Serial No.** : KB01AD20000  
**ID No./Tag No.** : 1WSE-FIQ-1  
**Date Received** : 17-Apr-21  
**Date Calibrated** : 17-Apr-21  
**Calibrated by** : Mr. Petch Suksusilp

### Calibration Method or Calibration Procedure Used

In-house method : CP-48 by comparing against Coriolis mass flowmeter.

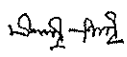
This certificate is traceable to national standards, which realize the units of measurement according to the International System of Units (SI).

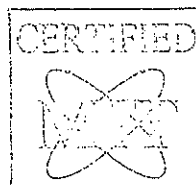
### Result of Calibration

The reported uncertainty of measurement was based on standard uncertainty multiplied by a coverage factor  $k = 2$ , providing a level confidence approximately 95 percent.

This certificate may not be reproduced other than in full except with the prior written approval of the Technical Manager, Miracle International Technology Company Limited.

Approved by :

  
(Mr. Tassanai Suksukon)  
Technical Manager



Page 1 of 2

Certificate No. : SS2104-100-0007

Calibration Condition

Ambient temperature : Start record 25.3 °C, Stop record 25.4 °C

Mode : Volume flow rate

Flow Span : 300.0

Relative humidity : Start record 54.8 %RH, Stop record 54.7 %RH

Max. Range: 300 m³/h

Pulse/unit (K-Factor) : 0 pulse/l

Atmospheric pressure : Start record 1009.6 mbar, Stop record 1009.7 mbar

Error Limit : 0.50%

Test Media water Size 200 mm

Repeatability Limit : 0.100 %

Requirement to :

☒ Without Adjustment

☐ With Adjustment

RESULT AS LEFT CALIBRATION

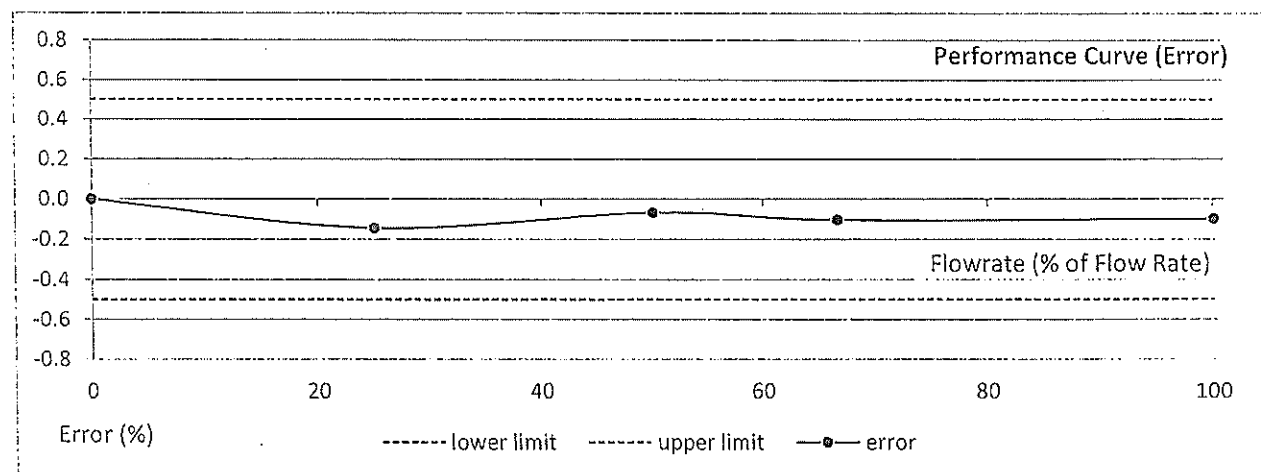
F.C.F or Factor = 1.115

Flow Rate (%)	STD Flow rate m³/h	UUC Current mA	UUC Frequency Hz	UUC m³/h	K-Factor pulse/l	Meter Factor	UUC Error (%)	Repeat. (%)	Uncertainty Display (±%)	Uncertainty mA (±%)	Uncertainty Hz (±%)
0.00	0.00 *	4.0000	-	0.00	-	1.001451	0.000	0.000	0.15	0.15	0.15
25.04	75.11	8.0015	-	75.01	-	1.001451	-0.145	0.003	0.15	0.15	0.15
50.05	150.15	12.0017	-	150.05	-	1.000684	-0.068	0.006	0.15	0.15	0.15
66.75	200.24	14.6669	-	200.03	-	1.001041	-0.104	0.005	0.15	0.15	0.15
100.12	300.35 *	20.0072	-	300.05	-	1.001000	-0.100	0.001	0.15	0.15	0.15

Note : Marked \* are not included in the NSC-ONSC accreditation schedule for our laboratory.

K-Factor = 1 / [ Meter Factor x Pulse Value ]

UUC error (%) = 100 x [ UUC Flowrate - Standard Flowrate / Standard Flowrate ]



Measurement Standards Used & Traceability :

The International System of Units (SI) through

MIT Certificate No. AD2006-112-0007, AD2006-112-0008 for Coriolis Flow Meter Serial No. FC023916000, Due 23-Jun-21

End of Certificate

*[Signature]*

Page 2 of 2



## 3.2 Pressure Gauge

# Calibration Test Report

UNIT UNDER TEST INFORMATION		CALIBRATOR INFORMATION	
Manufacturer	Transcat, Inc	Calibration Instrument	Deadweight Tester
Description	223Pressure Calibrator	Model	ppc4.
Serial Number	223210270	Serial Number	13-84
Pressure Range	(-1 ~25) bar	Calibrated Against	(2018) XLBQZ No.139-1
Accuracy	$\pm 0.05\%F.S.$	Accuracy	$\pm 0.01\%F.S.$

## PRESSURE PERFORMANCE: 20 °C

Actual Applied Value (bar)	Unit Under Test Reading (bar)	Unit Under Test Deviation (bar)
-0.950	-0.950	-0.000
-0.500	-0.500	-0.000
0.000	0.000	+0.000
3.000	2.999	-0.001
6.000	6.000	+0.000
9.000	8.999	-0.001
12.000	11.999	-0.001
15.000	14.999	-0.001
18.000	18.000	+0.000
21.000	20.999	-0.001
25.000	24.999	-0.001
/	/	/

## ANALOGUE PERFORMANCE 20 °C

Voltage Setpoint (V)	Unit Under Test Reading (V)	Unit Under Test Deviation (V)	Permissible Deviation (V)
+30.0000	30.0007	+0.0007	$\pm 0.0048$
-30.0000	-30.0008	-0.0008	$\pm 0.0048$

Current Setpoint (mA)	Unit Under Test Reading (mA)	Unit Under Test Deviation (mA)	Permissible Deviation (mA)
+30.0000	30.0007	+0.0007	$\pm 0.0048$
+15.0000	15.0005	+0.0005	$\pm 0.0033$
0.0000	0.0002	+0.0002	$\pm 0.0018$
-15.0000	-15.0006	-0.0006	$\pm 0.0033$
-30.0000	-30.0006	-0.0006	$\pm 0.0048$

Signature: ZHANG JIA LI

Date: 2022.03.15

This Instrument is calibrated and tested to verify compliance with Transcat, Inc's test specifications for all ranges and parameters required to meet one (1) year performance specifications. The calibration uses measurement standards traceable to EA (European Cooperation for Accreditations) and to SI (International System of Units). The recommended calibration interval for this instrument is 12 months from the date of calibration. Your particular quality assurance requirements may supersede this recommendation.

This report shall not be reproduced except in full written approval of Transcat, Inc



### 3.3 Tachometer

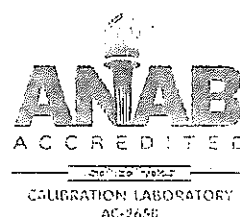


NA Caltechnologies Co., Ltd.

75/107 Moo 11, Klongnueng, Klongluang, Pathumthani 12120 THAILAND

Tel. +662-629-2460-5 Fax. +662-629-2133, 629-2466

Email: sales-cal@nocal.co.th Website: www.nocal.co.th



Customer : บริษัท เอ็กโก โคเจนเนอเรชั่น จำกัด  
เลขที่ 222 อาคารเอ็กโก ถนน วิภาวดี แขวง ท่งสองห้อง  
เขต หลักสี่ กรุงเทพมหานคร 10210

Description of Equipment : Tachometer  
Model Number : 931  
Manufacturer : Fluke  
Serial Number : 1919031  
Control Number : ---  
Receipt Date : 22-Oct-19  
Calibration Date : 24-Oct-19  
Work Order Number : E1U191171  
Certificate No. : E1U191171  
Page Number : 1 of 4

We certify that the above mentioned measuring instrument was calibrated in accordance with our management system as the ISO/IEC 17025 : 2017 and all the standard equipments used for calibration were traceable to the International of System Units (SI Units) maintained at the National Institute of Metrology (NIMT), Thailand and/or other associated foreign national standards.

Issued Date : 24-Oct-19  
Calibrated by : Mr. Mana Jitjanesuwan  
Checked by : Mr. Sompong Jullapho / Mr. Mana Jitjanesuwan

Approved by : ☒ Mr. Yanyong Pithong / Laboratory Manager  
☒ Mr. Yanyong Pithong / Act. For Calibration Manager  
☐ Mr. Mongkhon Asawaolan / ISO & QA Manager

Approved Signatory

The uncertainties are for a confidence probability of approximately 95%

FEZ-0014-04-03-01-15

This certificate is issued in accordance with the conditions of accreditation by the ANSAS National Accreditation Board (ANAB) under the management system of the laboratory and its traceability to recognized national standards and to the units of measurement derived from the SI standards laboratory. This certificate may not be reproduced other than in full except with prior written approval from the laboratory manager.





Certificate No.: E1U191171

Page : 2 of 4

#### Environment Conditions

Ambient Temperature : (23  $\pm$ 3) °C  
Ambient Relative Humidity : (55  $\pm$ 15) %rh  
Calibration Place : Permanent Calibration Laboratory

#### Standard Equipment Used

Equip. No.	Equipment Name	Maker / Model	Serial No.	Cert. No.	Due Date
SE-10308	Func/Arb Waveform Generator	Agilent / 33250A	MY40026097	E3U190188	25-Jun-20

#### Traceability

This certificate is traceable to the International System of Unit (SI Unit) maintained at:  
- Thailand for time and frequency standards.

#### Uncertainty of Measurement

The uncertainty of measurement evaluation has been carried out by using the methodology in the "Expression of Uncertainty and Confidence in Measurement (M3003)". These uncertainties are based on a standard uncertainty multiplied by a coverage factor,  $k=2$  corresponds to a coverage probability of approximately 95%.

#### Calibration Method

The Unit Under Calibration (UUC) has been calibrated in accordance with the calibration test specification no. E-TMF-M-0006-GE.

#### Calibration Results

The following results were the measurement results applied on the calibrated item and found accurate as show on date and place of calibration only. The results in "As Found" column are the measurement recorded before any adjustment or repair. The results in "As Left" are the equipment reading taken after the necessary repairs and adjustments. In case the equipment does not be adjusted or repaired, the column of "As Left" would be reported wording "Same".

Appearance and Function of Use Inspection : Good



Certificate No.: EIU191171

Page : 3 of 4

Calibration Results (Cont.)

Revolution Measurement Accuracy

Photo Function

UUC Range (r/min)	Standard Applied (r/min)	UUC Reading		UUC Error		Tolerance ( $\pm$ r/min)	Uncertainty ( $\pm$ r/min)	Judgment
		As Found (r/min)	As Left (r/min)	As Found (r/min)	As Left (r/min)			
99999	10.00	10.0	Same	0.0	Same	0.1	0.058	Pass
	100.0	100.0	Same	0.0	Same	0.1	0.058	Pass
	1000	1000	Same	0	Same	1	0.58	Pass
	10000	10000	Same	0	Same	3	1.0	Pass
	90000	89996	Same	-4	Same	19	1.2	Pass

Notes:

- 1) Tolerances or specifications report in table above are based on the Fluke 930/931 Tacho Meter User Manual, PN4971074 January 2009, Rev.2, 5/18
- 2) Statements of conformity (Judgment) are based on the decision rule described in the last page in this certificate.



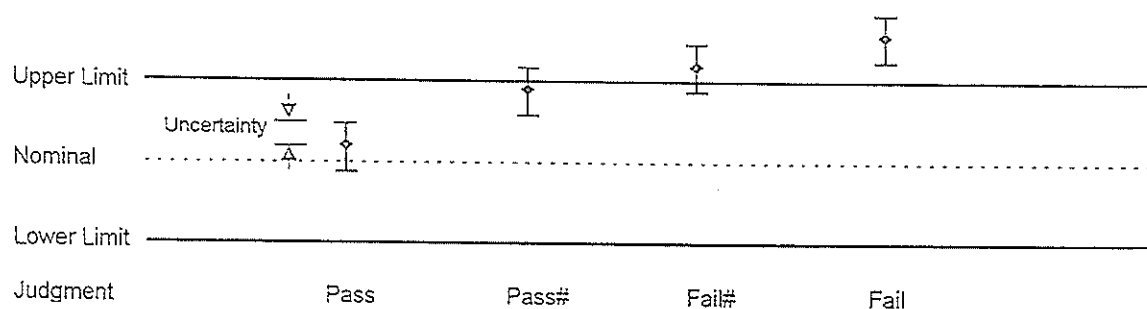


Certificate No.: EIU191171

Page : 4 of 4

### Statements of Conformity

The standard decision rule employed for the statements of conformity to each calibration result in this certificate is applied by using ILAC-G8:03/2009: Guidelines on the Reporting of Compliance with Specification as following Fig. and statements when the measurement uncertainty is taken into account.



- Pass = The measurement result plus the expanded uncertainty with a 95% coverage probability were within the specification limit. Then conformity with the specification is stated.
- Pass# = The measurement result was within the specification limit, but a portion of the expanded uncertainty with a 95% coverage probability was overlapped the specification limit. It is not possible to state conformity using the 95% coverage probability for the expanded uncertainty although the measurement result was below the limit.
- Fail# = The measurement result was out of the specification limit, but a portion of the expanded uncertainty with a 95% coverage probability was in the specification. It is not possible to state non-conformity using the 95% coverage probability for the expanded uncertainty although the measurement result was out of the limit.
- Fail = The measurement result plus the expanded uncertainty with a 95% coverage probability were outside the specification limit. Then non-conformity with the specification is stated.

The measurement results and the statements of conformity with specification only relate to the item calibrated.

When functional verification tests and other inspection without measurement uncertainty are performed, the reported results do not affect these statements of conformity.



## EGCO Cogen Power Plant

### FIRE EXTINGUISHER TESTING REPORT

#### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
1	Guard house	GH-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Field Service	FS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	22 kv Transformer	22kvT-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4		22kvT-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	22 kv Switchgear room	22kvS-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
6		22kvS-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
7	PEA Control Building	PEA-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
8		PEA-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.5 kg	11.5 kg	11.5 kg
9	Generator Transformer	GEN-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
10		GEN-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
11	Work Shop (Store)	WS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
12		WS-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
13		WS-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
14		WS-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
15		WS-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
16	1 <sup>st</sup> Control Building	1st-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
17		1st-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
18		1st-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
19	2 <sup>nd</sup> Control Building	2nd-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.4 kg	12.4 kg	12.4 kg
20	(Control Room)	2nd-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
21		2nd-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
22		2nd-4	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
23	3 <sup>rd</sup> Control Building	3RD-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
24	(Office)	3RD-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
25		3RD-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
26	AHU room Control Building	AHU-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
27		AHU-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
28	Water Treatment System	WT-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
29	Control room	WT-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
30	Air Compressor Building	AC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			





# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
31		AC-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
32	Auxiliary boiler Building	Aux-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
33		Aux-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
34		Aux-3	Foam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
35	EDG Building	ED-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
36		ED-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
37	STG Hall	ST-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
38		ST-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
39		ST-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
40		ST-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
41		ST-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
42	HRS 11	HR11-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
43		HR11-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
44	HRS 12	HR12-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
45		HR12-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
46	Mark V room for GT-1A	MV1A-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
47	Mark V room for GT-1B	MV1B-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.1 kg	12.1 kg	12.1 kg
48	Gas Turbine Hall 1A	GT-1A	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
49	Gas Turbine Hall 1B	GT-1B	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
50	Gas absorber for GT-1B	Gas1B-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
51	Transformer at Control Building	TC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
52	Fire Pump House	FP-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
53		FP-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
54		FP-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
55	Lubrication Oil House	LO-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
56		LO-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

\*\*\*หมายเหตุ

ถึง CO<sub>2</sub> หากมีน้ำหนักรวมลดลงกว่า 20% ให้ส่งไปตรวจสอบและ Refill (>=8.84 kg.)

(ถังขนาด 15 ปอนด์ Capacity 6.85 kg. Tare weight 4.20 kg. Total weight 11.05 kg.)

ถึง Dry chemical หากเกิดวัดความดันอยู่ในตำแหน่งสีแดง (ด้านซ้ายมือ) หรือ Recharge

P\* = Pressure / W\*\* = Weight

Inspected by

Inspected date

Yannawee G.

31-Aug-23



# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
1	Guard house	GH-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Field Service	FS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	22 kv Transformer	22kvT-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4		22kvT-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	22 kv Switchgear room	22kvS-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
6		22kvS-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
7	PEA Control Building	PEA-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
8		PEA-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.5 kg	11.5 kg	11.5 kg
9	Generator Transformer	GEN-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
10		GEN-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
11	Work Shop (Store)	WS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
12		WS-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
13		WS-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
14		WS-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
15		WS-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
16	1 <sup>st</sup> Control Building	1st-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
17		1st-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
18		1st-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
19	2 <sup>nd</sup> Control Building	2nd-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.4 kg	12.4 kg	12.4 kg
20	(Control Room)	2nd-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
21		2nd-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
22		2nd-4	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
23	3 <sup>rd</sup> Control Building	3RD-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
24	(Office)	3RD-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
25		3RD-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
26	AHU room Control Building	AHU-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
27		AHU-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
28	Water Treatment System	WT-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
29	Control room	WT-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
30	Air Compressor Building	AC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			





# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
31		AC-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
32	Auxiliary boiler Building	Aux-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
33		Aux-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
34		Aux-3	Foam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
35	EDG Building	ED-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
36		ED-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
37	STG Hall	ST-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
38		ST-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
39		ST-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
40		ST-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
41		ST-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
42	HRS 11	HR11-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
43		HR11-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
44	HRS 12	HR12-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
45		HR12-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
46	Mark V room for GT-1A	MV1A-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
47	Mark V room for GT-1B	MV1B-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.1 kg	12.1 kg	12.1 kg
48	Gas Turbine Hall 1A	GT-1A	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
49	Gas Turbine Hall 1B	GT-1B	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
50	Gas absorber for GT-1B	Gas1B-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
51	Transformer at Control Building	TC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
52	Fire Pump House	FP-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
53		FP-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
54		FP-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
55	Lubrication Oil House	LO-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
56		LO-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

\*\*\*หมายเหตุ

ถึง CO<sub>2</sub> หากมีน้ำหนักรวมลดลงกว่า 20% ให้ส่งไปตรวจสอบและ Refill (>=8.84 kg.)

(ถังขนาด 15 ปอนด์ Capacity 6.85 kg. Tare weight 4.20 kg. Total weight 11.05 kg.)

ถึง Dry chemical หากเกิดวัดความดันอยู่ในตำแหน่งสีแดง (ด้านซ้ายมือ) หรือ Recharge

P\* = Pressure / W\*\* = Weight

Inspected by

Inspected date

Yannawee G.

28-Dec-23



## EGCO Cogen Power Plant

### FIRE EXTINGUISHER TESTING REPORT

#### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
1	Guard house	GH-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Field Service	FS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	22 kv Transformer	22kvT-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4		22kvT-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	22 kv Switchgear room	22kvS-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	
6		22kvS-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	
7	PEA Control Building	PEA-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	
8		PEA-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.5 kg	11.5 kg	
9	Generator Transformer	GEN-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
10		GEN-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
11	Work Shop (Store)	WS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
12		WS-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
13		WS-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
14		WS-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
15		WS-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
16	1 <sup>st</sup> Control Building	1st-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	
17		1st-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	
18		1st-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	
19	2 <sup>nd</sup> Control Building	2nd-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.4 kg	12.4 kg	
20	(Control Room)	2nd-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	
21		2nd-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	
22		2nd-4	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	
23	3 <sup>rd</sup> Control Building	3RD-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
24	(Office)	3RD-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
25		3RD-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
26	AHU room Control Building	AHU-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	
27		AHU-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	
28	Water Treatment System	WT-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	
29	Control room	WT-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	
30	Air Compressor Building	AC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			





# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
31		AC-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
32	Auxiliary boiler Building	Aux-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
33		Aux-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
34		Aux-3	Foam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
35	EDG Building	ED-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	
36		ED-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	
37	STG Hall	ST-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
38		ST-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
39		ST-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
40		ST-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
41		ST-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
42	HRSO 11	HR11-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
43		HR11-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
44	HRSO 12	HR12-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
45		HR12-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
46	Mark V room for GT-1A	MV1A-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	
47	Mark V room for GT-1B	MV1B-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.1 kg	12.1 kg	
48	Gas Turbine Hall 1A	GT-1A	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	
49	Gas Turbine Hall 1B	GT-1B	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	
50	Gas absorber for GT-1B	Gas1B-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
51	Transformer at Control Building	TC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
52	Fire Pump House	FP-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	
53		FP-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
54		FP-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
55	Lubrication Oil House	LO-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
56		LO-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

\*\*\* หมายถึง

ถึง CO<sub>2</sub> หากมีน้ำหนักรวมลดลงกว่า 20% ให้ส่งไปตรวจสอบและ Refill (>=8.84 kg.)

(ถังขนาด 15 ปอนด์ Capacity 6.85 kg. Tare weight 4.20 kg. Total weight 11.05 kg.)

ถึง Dry chemical หากเกิดวัดความดันอยู่ในตำแหน่งสีแดง (ด้านซ้ายมือ) หรือ Recharge

P\* = Pressure / W\*\* = Weight

Inspected by

Inspected date

Yannawee G.

27-Jul-23



# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
1	Guard house	GH-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Field Service	FS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	22 kv Transformer	22kvT-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4		22kvT-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	22 kv Switchgear room	22kvS-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
6		22kvS-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
7	PEA Control Building	PEA-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
8		PEA-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.5 kg	11.5 kg	11.5 kg
9	Generator Transformer	GEN-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
10		GEN-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
11	Work Shop (Store)	WS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
12		WS-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
13		WS-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
14		WS-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
15		WS-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
16	1 <sup>st</sup> Control Building	1st-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
17		1st-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
18		1st-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
19	2 <sup>nd</sup> Control Building	2nd-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.4 kg	12.4 kg	12.4 kg
20	(Control Room)	2nd-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
21		2nd-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
22		2nd-4	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
23	3 <sup>rd</sup> Control Building	3RD-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
24	(Office)	3RD-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
25		3RD-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
26	AHU room Control Building	AHU-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
27		AHU-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
28	Water Treatment System	WT-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
29	Control room	WT-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
30	Air Compressor Building	AC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			



# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
31		AC-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
32	Auxiliary boiler Building	Aux-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
33		Aux-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
34		Aux-3	Foam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
35	EDG Building	ED-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
36		ED-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
37	STG Hall	ST-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
38		ST-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
39		ST-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
40		ST-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
41		ST-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
42	HRS 11	HR11-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
43		HR11-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
44	HRS 12	HR12-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
45		HR12-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
46	Mark V room for GT-1A	MV1A-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
47	Mark V room for GT-1B	MV1B-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.1 kg	12.1 kg	12.1 kg
48	Gas Turbine Hall 1A	GT-1A	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
49	Gas Turbine Hall 1B	GT-1B	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
50	Gas absorber for GT-1B	Gas1B-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
51	Transformer at Control Building	TC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
52	Fire Pump House	FP-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
53		FP-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
54		FP-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
55	Lubrication Oil House	LO-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
56		LO-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

\*\*\*หมายเหตุ

ถึง CO<sub>2</sub> หากมีน้ำหนักรวมลดลงกว่า 20% ให้ส่งไปตรวจสอบและ Refill (>=8.84 kg.)

(ถังขนาด 15 ปอนด์ Capacity 6.85 kg. Tare weight 4.20 kg. Total weight 11.05 kg.)

ถึง Dry chemical หากเกิดวัดความดันอยู่ในตำแหน่งสีแดง (ด้านซ้ายมือ) หรือ Recharge

P\* = Pressure / W\*\* = Weight

Inspected by

Inspected date

Yannawee G.

24-Nov-23





## EGCO Cogen Power Plant

### FIRE EXTINGUISHER TESTING REPORT

#### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
1	Guard house	GH-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Field Service	FS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	22 kv Transformer	22kvT-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4		22kvT-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	22 kv Switchgear room	22kvS-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
6		22kvS-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
7	PEA Control Building	PEA-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
8		PEA-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.5 kg	11.5 kg	11.5 kg
9	Generator Transformer	GEN-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
10		GEN-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
11	Work Shop (Store)	WS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
12		WS-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
13		WS-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
14		WS-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
15		WS-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
16	1 <sup>st</sup> Control Building	1st-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
17		1st-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
18		1st-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
19	2 <sup>nd</sup> Control Building	2nd-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.4 kg	12.4 kg	12.4 kg
20	(Control Room)	2nd-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
21		2nd-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
22		2nd-4	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
23	3 <sup>rd</sup> Control Building	3RD-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
24	(Office)	3RD-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
25		3RD-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
26	AHU room Control Building	AHU-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
27		AHU-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
28	Water Treatment System	WT-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
29	Control room	WT-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
30	Air Compressor Building	AC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			



# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
31		AC-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
32	Auxiliary boiler Building	Aux-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
33		Aux-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
34		Aux-3	Foam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
35	EDG Building	ED-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
36		ED-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
37	STG Hall	ST-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
38		ST-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
39		ST-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
40		ST-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
41		ST-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
42	HRSO 11	HR11-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
43		HR11-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
44	HRSO 12	HR12-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
45		HR12-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
46	Mark V room for GT-1A	MV1A-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
47	Mark V room for GT-1B	MV1B-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.1 kg	12.1 kg	12.1 kg
48	Gas Turbine Hall 1A	GT-1A	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
49	Gas Turbine Hall 1B	GT-1B	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
50	Gas absorber for GT-1B	Gas1B-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
51	Transformer at Control Building	TC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
52	Fire Pump House	FP-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
53		FP-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
54		FP-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
55	Lubrication Oil House	LO-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
56		LO-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

\*\*\* หมายถึง

ถึง CO<sub>2</sub> หากมีน้ำหนักรวมลดลงกว่า 20% ให้ส่งไปตรวจสอบและ Refill (>=8.84 kg.)

(ถังขนาด 15 ปอนด์ Capacity 6.85 kg. Tare weight 4.20 kg. Total weight 11.05 kg.)

ถึง Dry chemical หากเกิดวัดความดันอยู่ในตำแหน่งสีแดง (ด้านซ้ายมือ) หรือ Recharge

P\* = Pressure / W\*\* = Weight

Inspected by

Inspected date

Yannawee G.

25-Oct-23



EGCO Cogen Power Plant

# WATER DELUGE SYSTEM TESTING REPORT

## SCHEDULE 3 MONTHLY

ลำดับที่	รายการอุปกรณ์	มาตรฐาน / เกณฑ์การตรวจสอบ	ผลการตรวจสอบ											
	ชิ้นส่วนวิกฤติที่ตรวจสอบ		EDG	UAT-3 (GTG-1A)	UAT-4 (GTG-1B)	Transformer GTG-1A	Transformer GTG-1B	Transformer STG	22kv Transformer #1	22kv Transformer #2	6.9 kv Transformer	Fire Pump House	HVAC	STG
1	ระดับแรงดันของ water supply	Bar	9	8	9	9	9	-	11	9	9	10	-	-
2	ระดับแรงดันของ diaphragm chamber	Bar	9	9	9	9	9	-	9	9	9	9	-	-
3	Main Valve	- จะต้องอยู่ในตำแหน่งเปิด	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Deluge Valve	- จะต้องอยู่ในตำแหน่งปิด	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Nozzle	- จะต้องไม่มีน้ำรั่วบริเวณหัวฉีด	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Trouble Signal	- จะต้องมีการ Alarm แสดงที่ Fire Alarm Panel (ที่ Control Room)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### COMMENT :

- 22 kV Transformer#1 Alarm ไม่ดัง
- 22 kV Transformer#2 Alarm ไม่ดัง
- UAT3 Alarm ไม่ดัง

Inspected by

Santi K.

Inspected Date

26-Oct-23





## EGCO Cogen Power Plant

### FIRE EXTINGUISHER TESTING REPORT

#### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
1	Guard house	GH-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Field Service	FS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
3	22 kv Transformer	22kvT-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
4		22kvT-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
5	22 kv Switchgear room	22kvS-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
6		22kvS-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
7	PEA Control Building	PEA-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
8		PEA-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.5 kg	11.5 kg	11.5 kg
9	Generator Transformer	GEN-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
10		GEN-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
11	Work Shop (Store)	WS-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
12		WS-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
13		WS-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
14		WS-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
15		WS-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
16	1 <sup>st</sup> Control Building	1st-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
17		1st-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
18		1st-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
19	2 <sup>nd</sup> Control Building	2nd-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.4 kg	12.4 kg	12.4 kg
20	(Control Room)	2nd-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
21		2nd-3	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
22		2nd-4	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
23	3 <sup>rd</sup> Control Building	3RD-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
24	(Office)	3RD-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
25		3RD-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
26	AHU room Control Building	AHU-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.6 kg	11.6 kg	11.6 kg
27		AHU-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.0 kg	12.0 kg	12.0 kg
28	Water Treatment System	WT-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
29	Control room	WT-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
30	Air Compressor Building	AC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			



# EGCO Cogen Power Plant

## FIRE EXTINGUISHER TESTING REPORT

### SCHEDULE MONTHLY

No.	Area	Cylinder Code	Type	Condition				Remarks		
				Cylinder	Hose	Pin	P* / W**	Original W	1st Check	2nd Check
31		AC-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
32	Auxiliary boiler Building	Aux-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
33		Aux-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
34		Aux-3	Foam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
35	EDG Building	ED-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.8 kg	11.8 kg	11.8 kg
36		ED-2	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
37	STG Hall	ST-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
38		ST-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
39		ST-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
40		ST-4	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
41		ST-5	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
42	HRSO 11	HR11-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
43		HR11-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
44	HRSO 12	HR12-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
45		HR12-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
46	Mark V room for GT-1A	MV1A-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.9 kg	11.9 kg	11.9 kg
47	Mark V room for GT-1B	MV1B-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.1 kg	12.1 kg	12.1 kg
48	Gas Turbine Hall 1A	GT-1A	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12.2 kg	12.2 kg	12.2 kg
49	Gas Turbine Hall 1B	GT-1B	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
50	Gas absorber for GT-1B	Gas1B-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
51	Transformer at Control Building	TC-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
52	Fire Pump House	FP-1	CO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11.7 kg	11.7 kg	11.7 kg
53		FP-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
54		FP-3	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
55	Lubrication Oil House	LO-1	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
56		LO-2	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

\*\*\* หมายถึง

ถึง CO<sub>2</sub> หากมีน้ำหนักรวมลดลงกว่า 20% ให้ส่งไปตรวจสอบและ Refill (>=8.84 kg.)

(ถังขนาด 15 ปอนด์ Capacity 6.85 kg. Tare weight 4.20 kg. Total weight 11.05 kg.)

ถึง Dry chemical หากเกิดวัดความดันอยู่ในตำแหน่งสีแดง (ด้านซ้ายมือ) หรือ Recharge

P\* = Pressure / W\*\* = Weight

Inspected by

Inspected date

Yannawee G.

28-Sep-23