
Master Plan for Preventive Maintenance



บริษัท แอพพรเอนจิเนียริง จำกัด
APPROACH ENGINEERING CO., LTD.

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สำนักงานใหญ่

เลขประจำผู้เสียภาษี 0105545092381



Yearly Planning Preventive Maintenance

Project : Marriott Executive Apartments Sukhumvit Park-Bangkok

Date : 1 January 2023 - 31 December 2023

ลำดับ	รายการ	ม.ค.-23				ก.พ.-23				มี.ค.-23				เม.ย.-23				พ.ค.-23				มิ.ย.-23				ก.ค.-23				ส.ค.-23				ก.ย.-23				ต.ค.-23				พ.ย.-23				ธ.ค.-23			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
1	Service ครั้งที่ 1																																																
2	Service ครั้งที่ 2																																																
3	Service ครั้งที่ 3																																																
4	Service ครั้งที่ 4																																																
5	Service ครั้งที่ 5																																																
6	Service ครั้งที่ 6																																																
ล้าง COOLING TOWER																																																	
ล้าง FILLING																																																	
Remark		Cooling Tower Model " NC 8325 C1 x 4 Sets "																																															

เข้า Service Cooling Tower ทุก 2 เดือน : 6 ครั้ง / ปี

เข้าล้าง Cooling Tower ทุก 4 เดือน : 3 ครั้ง / ปี

เข้าล้าง Filling 6 เดือน : 1 ครั้ง / ปี



copy

SCHEDULE OF SERVICE HOOD CLEANING OF YEAR 2023 -2024
MARRIOTT EXECUTIVE APARTMENT SUKHUMVIT PARK – BANGKOK

	Feb'23	Mar'23	Apr'23	May'23	June'23	July'23	Aug'23	Sep'23	Oct'23	Nov'23	Dec'23	Jan'24
1st												
STAFF CANTEEN					✓							
- CLEANING INTERNAL AND EXTERNAL HOOD												
- CLEANING INTERNAL EXHAUST DUCT												
- CLEANING BLOWER AND EXHAUST FAN												
MAIN KITCHEN					✓							
- CLEANING INTERNAL AND EXTERNAL HOOD												
- CLEANING INTERNAL EXHAUST DUCT												
- CLEANING BLOWER AND EXHAUST FAN												
- CLEANING INTERNAL EXHAUST DUCT AREA EXIT												
LAUNDRY ROOM					✓							
- CLEANING DUCT EXTERNAL AIR DUCT, FIXERLIGHT PIPE SYSTEM FILTER DRYER MACHINE												
- CLEANING DUCT EXTERNAL AIR DUCT, FIXERLIGHT PIPE SYSTEM FILTER IRON MACHINE												

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Jardine Schindler

Jardine Schindler (Thai) Ltd.

Routine Maintenance Schedule

For January - December 2023



Schindler

Contract Name :

Marriott Executive

No. of Equipment

9

Unit(s)

Month	Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Remark	
January																																		
February																																		
March																																		
April																																		
May																																		
June																																		
July																																		
August																																		
September																																		
October																																		
November																																		
December																																		

Prepared by :

Theeravit W.
(Service Sup. / Eng.)

Date :

5 / 1 / 2023

Approved by :

Date :

(Client or Client's Representative)

/ /

P

Engineering Department

Daily Machinery & System Inspection Report

Date 21/7/16

Item	Description	Morning			Afternoon			Night			Remark
		Run/Stop	Pressure	Level (L/H)	Run/Stop	Pressure	Level (L/H)	Run/Stop	Pressure	Level (L/H)	
1	Rooftop Water Tank	✓		H	✓		41	✓		J	
2	Cooling Tower no. 1,2,3,4	✓		A/M /Off	✓		A/M /Off	✓		A/M /Off	
3	Bleed Off Blowdown	Tank 20/20	PH 8.7	Conduct 1592	Tank 18/18	PH 8.7	Conduct 160	Tank 18/18	PH 8.7	Conduct 1583	
4	Television System	✓			✓			✓			
5	Heat pump Zone 1 (FL 2B-FL 34)	51	47	A/M /Off	53	47	A/M /Off	56	46	A/M /Off	
6	Heat pump Zone 2 (FL 21-FL 27)	50	58	A/M /Off	49	58	A/M /Off	51	58	A/M /Off	
7	Heat pump Zone 3 (FL 14-FL 20)	52	52	A/M /Off	53	52	A/M /Off	51	52	A/M /Off	
8	Heat pump Zone 4 (FL 5-FL 12)	52	49	A/M /Off	52	49	A/M /Off	54	50	A/M /Off	
9	Heat pump Zone 5 (G - FL 4)	45	40	A/M /Off	46	40	A/M /Off	49	41	A/M /Off	
10	Booster Pump Room	41	10	A/M /Off	45	10	A/M /Off	42	10	A/M /Off	
11	Electrical Main Meter	✓			✓			✓			
12	Chiller Running no.	47+	46.5/52.3	87.4/9.9	87+	46.5/51	87.4/9.9	85	50.9/45.9	96.3/91.9	
13	LSCHP	Run No. 1	P. In 200	P. out 25	Run No. 1	P. In 200	P. out 25	Run No. 1	P. In 200	P. out 25	
14	HSCHP	Run No. 1	P. In 200	P. out 260	Run No. 2	P. In 200	P. out 260	Run No. 1	P. In 200	P. out 260	
15	CDP	Run No. 4	P. In 155	P. out 165	Run No. 9	P. In 155	P. out 175	Run No. 4	P. In 165	P. out 185	
16	PCHP	Run No. -	P. In -	P. out -	Run No. -	P. In -	P. out -	Run No. -	P. In -	P. out -	
17	Swimming Pool	PH 7.6	CL 1.5	Salt 760	PH 7.6	CL 1.5	Salt 760	PH 7.6	CL 1.5	Salt 760	
18	Jacuzzi	6.5	0.2	A/M /Off	7.6	0.1	A/M /Off	6.9	0.2	A/M /Off	
19	Server Room	Room Temp. 20	Normal/Abnormal	Room Temp. 21	Normal/Abnormal	Room Temp. 21	Normal/Abnormal	Room Temp. 21	Normal/Abnormal	Room Temp. 21	
20	Fire pump & Jockey Pump at Basement floor	A/M /Off	A/M /Off	300 170	A/M /Off	A/M /Off	400 1400	A/M /Off	A/M /Off	300 1300	

Item	Description	Morning			Afternoon			Night			Remark
		Water Level	Cond.	Pressure	Water Level	Cond.	Pressure	Water Level	Cond.	Pressure	
21	Cold water Pump at Basement floor	L/M/H		A/M /Off	L/M/H		A/M /Off	L/M/H		A/M /Off	
22	Softener System (Hardness/Brine tank/Status)	PPM Level 600	L/L2		PPM Level 600	L/L2		PPM Level 600	L/L2		
23	Boiler System	2	110	200	2	160		0PP			
24	Equalization Pump EQP-1, EQP-2	1	A/M /Off	Normal/Abnormal	2	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	
25	Ejector Pump EH-1	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	
26	Effluent Pump EFP-1, EFP-2	-	A/M /Off	Normal/Abnormal	2	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	
27	Aerator Pump A-1, A-2, A-3	1,2,3	A/M /Off	Normal/Abnormal	1,2,3	A/M /Off	Normal/Abnormal	1,2	A/M /Off	Normal/Abnormal	
28	Air Lift Solenoid SV-1, SV-2, SV-3	-	A/M /Off	Normal/Abnormal	2	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	
29	Sludge Pump SLP-1, SLP-2	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	
30	Hotel Guest Elevator no. P1, P2, P3, P4	✓		Normal/Abnormal	✓		Normal/Abnormal	✓		Normal/Abnormal	
31	Hotel Staff Service Elevator no. S1, S2	✓		Normal/Abnormal	✓		Normal/Abnormal	✓		Normal/Abnormal	
32	Car Park Guest Elevator no. P1, P2	✓		Normal/Abnormal	✓		Normal/Abnormal	✓		Normal/Abnormal	
33	Car Park Staff Elevator no. S1	✓		Normal/Abnormal	✓		Normal/Abnormal	✓		Normal/Abnormal	
34	LPG Station / Water LV	M	A	N	LINE 1	LINE 2	SPARE	LINE 1	LINE 2	SPARE	
35	Main KC	70			2	2	0	0/2	2	0	
36	Canteen	70			2	2	0	2	2	0	
37	Laundry	70			6	6	0	6	0/6	6	

Reported by

Shift A: POG

ACE

DOE

Shift B: EstShift C: Bank

P

Engineering Department

Daily Machinery & System Inspection Report

Date 2/8/66

Item	Description	Morning			Afternoon			Night			Remark
		Normal	Abnormal	Level (L/H)	Normal	Abnormal	Level (L/H)	Normal	Abnormal	Level (L/H)	
1	Rooftop Water Tank	/		A	/		-	/		H	
2	Cooling Tower no.	/		8 M / Off	/		6 M / Off	/		8 M / Off	
3	Bleed Off Blowdown	Tank 0/170	PH 8.7	Conduct 195	Tank 0/170	PH 8.7	Conduct 195	Tank 0/170	PH 8.7	Conduct 147	
4	Television System	/			/			/			
5	Heat pump Zone 1 (FL 28-FL 34)	48	51	A / M / Off	56	48	8 M / Off	54	49	8 M / Off	
6	Heat pump Zone 2 (FL 23-FL 27)	70	58	A / M / Off	44	59	8 M / Off	53	60	8 M / Off	
7	Heat pump Zone 3 (FL 14-FL 20)	52	52	A / M / Off	54	52	8 M / Off	50	49	8 M / Off	
8	Heat pump Zone 4 (FL 5-FL 12)	53	49	A / M / Off	53	49	8 M / Off	52	48	8 M / Off	
9	Heat pump Zone 5 (G-FL 4)	50	42	A / M / Off	49	43	8 M / Off	37	50	8 M / Off	
10	Booster Pump Room	60	60	A / M / Off	93	16	8 M / Off	42	10	8 M / Off	
11	Electrical Main Meter	/			/			/			
12	Chiller Running no.	88.7	46/51.8	56.7/93.0	90	92/46	87/94	82.1	50.5/46.0	91.6/91.1	
13	LSCHP	Run No. 1	P. In 200	P. out 250	Run No. 1	P. In 200	P. out 258	Run No. 1	P. In 200	P. out 240	
14	HSCHP	Run No. 1	P. In 200	P. out 260	Run No. 1	P. In 200	P. out 260	Run No. 1	P. In 200	P. out 260	
15	CDP	Run No. 4	P. In 155	P. out 165	Run No. 4	P. In 155	P. out 175	Run No. 4	P. In 165	P. out 176	
16	PCHP	Run No. -	P. In -	P. out -	Run No. -	P. In -	P. out -	Run No. -	P. In -	P. out -	
17	Swimming Pool	PH 7.8	CL 1.9	Salt 3700/3700	PH 7.6	CL 1.5	Salt 3700/3700	PH 7.3	CL 7.6	Salt 3700	
18	Jacuzzi	7.5	0.5	A / M / Off	7.6	3	8 M / Off	1.5	6.8	8 M / Off	
19	Server Room	Room Temp. 22	Normal/Abnormal	Room Temp. 22	Normal/Abnormal	Room Temp. 21.8 C	Normal/Abnormal	Room Temp. 21.8 C	Normal/Abnormal	Room Temp. 21.8 C	
20	Fire pump & Jockey Pump at Basement floor	A / M / Off	A / M / Off	700/1300	A / M / Off	A / M / Off	700/1300	A / M / Off	A / M / Off	700/1300	

Item	Description	Morning			Afternoon			Night			Remark
		Water Level	Cond.	SWR No. 1/2/3	Water Level	Cond.	SWR No. 1/2/3	Water Level	Cond.	SWR No. 1/2/3	
17	Cold water Pump at Basement floor	L/M/H		A / M / Off	L/M/H		A / M / Off	L/M/H		A / M / Off	
18	Softener System (Hardness/Brine tank/Status)	PPM Level 600	12/L2	-PPM Level 600	12/L2	PPM Level 600	12/L2	PPM Level 600	12/L2	PPM Level 600	
19	Boiler System	2	110	150	2	120		0PF			
20	Equalization Pump EQP-1, EQP-2	1	A / M / Off	Normal/Abnormal	1	A / M / Off	Normal/Abnormal	1	A / M / Off	Normal/Abnormal	
21	Ejector Pump EJ-1	-	A / M / Off	Normal/Abnormal	1	A / M / Off	Normal/Abnormal	1	A / M / Off	Normal/Abnormal	
22	Effluent Pump EFP-1, EFP-2	-	A / M / Off	Normal/Abnormal	1	A / M / Off	Normal/Abnormal	-	A / M / Off	Normal/Abnormal	
23	Aerator Pump A-1, A-2, A-3	1,2,3	A / M / Off	Normal/Abnormal	1,2,3	A / M / Off	Normal/Abnormal	1,2,3	A / M / Off	Normal/Abnormal	
24	Air Lift Solenoid SV-1, SV-2, SV-3	-	A / M / Off	Normal/Abnormal	-	A / M / Off	Normal/Abnormal	-	A / M / Off	Normal/Abnormal	
25	Sludge Pump SLP-1, SLP-2	-	A / M / Off	Normal/Abnormal	-	A / M / Off	Normal/Abnormal	-	A / M / Off	Normal/Abnormal	
26	Hotel Guest Elevator no. P1, P2, P3, P4	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	
27	Hotel Staff Service Elevator no. S1, S2	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	
28	Car Park Guest Elevator no. P1, P2	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	
29	Car-Park Staff Elevator no. S1	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	
LPG Station / Water LV M A N											
30	Main KC	2	2	0	2	2	0	2	2	0	
31	Canteen	2	2	0	2	2	0	2	2	0	
32	Laundry	6	6	8	6	6	8	0/1	6	6	

Reported by

Shift A: 220

ACE

DOE

Shift B: 220

Shift C: Bank

Date 3/9/2023

Item	Description	Morning			Afternoon			Night			Remark
		Manual	Automatic	Level (L/H)	Manual	Automatic	Level (L/H)	Manual	Automatic	Level (L/H)	
1	Rooftop Water Tank	✓		H	✓		H	✓		H	
2	Cooling Tower no. 1, 2, 3, 4	✓		A/M / Off	✓		A/M / Off	✓		A/M / Off	
3	Bleed Off Blowdown	Tank 100/100	PH 7.7	Conduct 60	Tank 200/200	PH 8.8 20	Conduct 542	Tank 100/100	PH 8.7	Conduct 1570	
4	Television System	✓			✓			✓			
Heat Pump System											
		Supply T.	Return T.	Pump Status	Supply T.	Return T.	Pump Status	Supply T.	Return T.	Pump Status	
5	Heat pump Zone 1 (FL 28-FL 34)	52	51	A / M / Off	53	52	A / M / Off	51	50	A / M / Off	
6	Heat pump Zone 2 (FL 21-FL 27)	51	52	A / M / Off	53	53	A / M / Off	50	50	A / M / Off	
7	Heat pump Zone 3 (FL 14-FL 20)	49	48	A / M / Off	48	47	A / M / Off	45	45	A / M / Off	
8	Heat pump Zone 4 (FL 5-FL 12)	51	50	A / M / Off	54	50	A / M / Off	53	50	A / M / Off	
9	Heat pump Zone 5 (G - FL 4)	49	41	A / M / Off	46	41	A / M / Off	48	46	A / M / Off	
10	Booster Pump Room	41	10	A / M / Off	44	10	A / M / Off	40	10	A / M / Off	
11	Electrical Main Meter	✓			✓			✓			
Chiller Plant System											
		Load %	Chilled Temp	Condenser Temp	Load %	Chilled Temp	Condenser Temp	Load %	Chilled Temp	Condenser Temp	
12	Chiller Running no. 1	94.6	52.1/42.2	87.1/74.5	94.3	55.7/49.2	87.2/60.2	93.1	52.1/46	87.1/73	
13	LSCHP	Run No. 1	P. in 200	P. out 200	Run No. 1	P. in 200	P. out 200	Run No. 1	P. in 200	P. out 245	
14	HSCHP	Run No. 1	P. in 200	P. out 200	Run No. 1	P. in 200	P. out 235	Run No. 1	P. in 200	P. out 265	
15	CDP	Run No. 4	P. in 160	P. out 160	Run No. 4	P. in 160	P. out 185	Run No. 4	P. in 160	P. out 175	
16	PCHP	Run No. 1	P. in	P. out	Run No. 1	P. in	P. out	Run No. 1	P. in	P. out	
17	Swimming Pool	PH 7.6	CL 1.5	Salt 4400	PH 7.2	CL 0.6	Salt 4400	PH 7.8	CL 1.5	Salt 4400	
18	Jacuzzi	8.2	8.0	A / M / Off	8.2	0.1	A / M / Off	8.2	1.5	A / M / Off	
19	Server Room	Room Temp. 20		Normal / Abnormal	Room Temp.		Normal / Abnormal	Room Temp.		Normal / Abnormal	
Fire Pump System											
		Fire Engine	Jockey pump	Water Pressure	Fire Engine	Jockey pump	Water Pressure	Fire Engine	Jockey pump	Water Pressure	
20	Fire pump & Jockey Pump at Basement floor	A / M / Off	A / M / Off	300 / 300	A / M / Off	A / M / Off	300 / 300	A / M / Off	A / M / Off	300 / 300	

Item	Description	Morning			Afternoon			Night			Remark
		Water Level	Condition	Flow Rate (L/H)	Water Level	Condition	Flow Rate (L/H)	Water Level	Condition	Flow Rate (L/H)	
17	Cold water Pump at Basement floor	L / M / H	✓	A / M / Off	L / M / H	✓	A / M / Off	L / M / H	✓	A / M / Off	
18	Softener System (Hardness / Brine tank / Status)	PPM Level 400	A / L2		PPM Level 400	A / L2		PPM Level 400	A / L2		
Boiler System & Laundry plant											
		Running No.	Pressure	Blowdown	Running No.	Pressure	Blowdown	Running No.	Pressure	Blowdown	
19	Boiler System	2	110	110				1	110	735	
Waste water Treatment & Sludge pump station											
		Running No.	Pump Status	System	Running No.	Pump Status	System	Running No.	Pump Status	System	
20	Equalization Pump EQP-1, EQP-2	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	
21	Ejector Pump EJ-1	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	
22	Effluent Pump EFP-1, EFP-2	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	
23	Aerator Pump A-1, A-2, A-3	1, 2, 3	A / M / Off	Normal / Abnormal	1, 2, 3	A / M / Off	Normal / Abnormal	1, 2, 3	A / M / Off	Normal / Abnormal	
24	Air Lift Solenoid SV-1, SV-2, SV-3	1, 2, 3	A / M / Off	Normal / Abnormal	1, 2, 3	A / M / Off	Normal / Abnormal	1, 2, 3	A / M / Off	Normal / Abnormal	
25	Sludge Pump SLP-1, SLP-2	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	
Elevator System											
		Lighting	Push Buttons	System	Lighting	Push Buttons	System	Lighting	Push Buttons	System	
26	Hotel Guest Elevator no. P1, P2, P3, P4	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	
27	Hotel Staff Service Elevator no. S1, S2	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	
28	Car Park Guest Elevator no. P1, P2	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	
29	Car Park Staff Elevator no. S1	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	✓	✓	Normal / Abnormal	
LPG Station / Water LV											
		M	A	N	LINE 1	LINE 2	SPARE	LINE 1	LINE 2	SPARE	
30	Main KC	70	75	70	2	2	2	2	2	2	
31	Canteen	70	70	70	2	2	0	2	2	0	
32	Laundry	70	70	65	6	6	6	6	6	6	

Reported by pen

Shift A: _____

ACE _____

DOE _____

Shift B: _____

Shift C: SA

Date 31/10/23

Item	Description	Morning			Afternoon			Night			Remark
		Normal	Abnormal	Level (L, H, N)	Normal	Abnormal	Level (L, H, N)	Normal	Abnormal	Level (L, H, N)	
1	Rooftop Water Tank	/		H	/		H	/		H	
2	Cooling Tower no. 1,2,3	/		A/M / Off	/		A/M / Off	/		A/M / Off	
3	Bleed Off Blowdown	Tank 200/190	PH 7.8	Conduct 180	Tank 200/190	PH 8.8	Conduct 1510	Tank 200/200	PH 8.665	Conduct 1640	
4	Television System	/			/			/			
Heat Pump System		Supply T.	Return T.	Pump Status	Supply T.	Return T.	Pump Status	Supply T.	Return T.	Pump Status	
5	Heat pump Zone 1 (FL 28-FL 34)	53	52	A/M / Off	49	48	A/M / Off	48	48	A/M / Off	
6	Heat pump Zone 2 (FL 21-FL 27)	51	53	A/M / Off	35	43	A/M / Off	51	55	A/M / Off	
7	Heat pump Zone 3 (FL 14-FL 20)	49	49	A/M / Off	48	48	A/M / Off	49	48	A/M / Off	
8	Heat pump Zone 4 (FL 5-FL 12)	55	52	A/M / Off	54	51	A/M / Off	54	52	A/M / Off	
9	Heat pump Zone 5 (G - FL 4)	42	32	A/M / Off	47	43	A/M / Off	48	44	A/M / Off	
10	Booster Pump Room	43	10	A/M / Off	40	10	A/M / Off	44	10	A/M / Off	
11	Electrical Main Meter	/			/			/			
Chiller Plant System		Load %	Chilled Temp	Condensor Temp	Load %	Chilled Temp	Condensor Temp	Load %	Chilled Temp	Condensor Temp	
12	Chiller Running no. 3	93.67	51.4/46.2	62.2/44.2	84%	50.4/46	87.2/49.9	83.6	50.7/46	85.5/40.5	
13	LSCHP	Run No. 1	P. in 160	P. out 250	Run No. 1	P. in 200	P. out 230	Run No. 1	P. in 200	P. out 235	
14	HSCHP	Run No. 1	P. in 190	P. out 240	Run No. 1	P. in 200	P. out 245	Run No. 1	P. in 200	P. out 235	
15	CDP	Run No. 4	P. in 190	P. out 260	Run No. 4	P. in 165	P. out 175	Run No. 4	P. in 160	P. out 160	
16	PCHP	Run No. -	P. in -	P. out -	Run No. -	P. in -	P. out -	Run No. -	P. in -	P. out -	
13	Swimming Pool	PH 7.2	CL 1.4	Salt	PH 6.2	CL 1.0	Salt 3900	PH 7.2	CL 1.5	Salt 3900	
14	Jacuzzi	7.2	0.2	A/M / Off	7.8	1.5	A/M / Off	7.6	0.2	A/M / Off	
15	Server Room	Room Temp. 19.2	Normal / Abnormal	Room Temp. 19.2	Normal / Abnormal	Room Temp. 19.2	Normal / Abnormal	Room Temp. 19.2	Normal / Abnormal	Room Temp. 19.2	
Fire Pump System		Fire Engine	Jockey pump	Water Pressure	Fire Engine	Jockey pump	Water Pressure	Fire Engine	Jockey pump	Water Pressure	
16	Fire pump & Jockey Pump at Basement floor	A/M / Off	A/M / Off	300/300	A/M / Off	A/M / Off	300/300	A/M / Off	A/M / Off	300/300	

	Water Level	Cond.	Chilled Temp. / No. 2	Water Level	Cond.	Chilled Temp. / No. 2	Water Level	Cond.	Chilled Temp. / No. 2
Cold water Pump at Basement floor	L / M / H	-	A / M / Off	L / M / H	-	A / M / Off	L / M / H	-	A / M / Off
18 Softener System (Hardness / Brine tank / Status)	PPM Level 400	L1 / L2	- PPM Level 400	L3 / L2	PPM Level 400	L1 / L2	PPM Level 400	L1 / L2	
Boiler System & Jockey plant		Running No.	Pressure	Blowdown	Running No.	Pressure	Blowdown	Running No.	Pressure
19 Boiler System	1	120	699	1	110	790	1	110	823
Waste water Treatment & Pump house plant		Running No.	Pump Status	System	Running No.	Pump Status	System	Running No.	Pump Status
20 Equalization Pump EQP-1, EQP-2	-	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	-	A / M / Off	Normal / Abnormal
21 Ejector Pump EJ-1	-	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal
22 Effluent Pump EFP-1, EFP-2	-	A / M / Off	Normal / Abnormal	2	A / M / Off	Normal / Abnormal	-	A / M / Off	Normal / Abnormal
23 Aerator Pump A-1, A-2, A-3	1, 2	A / M / Off	Normal / Abnormal	1, 2	A / M / Off	Normal / Abnormal	1, 2	A / M / Off	Normal / Abnormal
24 Air Lift Solenoid SV-1, SV-2, SV-3	1	A / M / Off	Normal / Abnormal	1	A / M / Off	Normal / Abnormal	-	A / M / Off	Normal / Abnormal
25 Sludge Pump SLP-1, SLP-2	-	A / M / Off	Normal / Abnormal	-	A / M / Off	Normal / Abnormal	-	A / M / Off	Normal / Abnormal
Elevator System		Lighting	Push button	System	Lighting	Push button	System	Lighting	Push button
26 Hotel Guest Elevator no. P1, P2, P3, P4	/	/	/	Normal / Abnormal	/	/	Normal / Abnormal	/	/
27 Hotel Staff Service Elevator no. S1, S2	/	/	/	Normal / Abnormal	/	/	Normal / Abnormal	/	/
28 Car Park Guest Elevator no. P1, P2	/	/	/	Normal / Abnormal	/	/	Normal / Abnormal	/	/
29 Car Park Staff Elevator no. S1	/	/	/	Normal / Abnormal	/	/	Normal / Abnormal	/	/
LPG Station / Water LV		M	A	N	LINE 1	LINE 2	SPARE	LINE 1	LINE 2
30 Main KC	20	90	-	2	2	0	2	2	0
31 Canteen	20	90	-	2	2	0	2	2	0
32 Laundry	20	65	-	6	6	6	6	3/6	6

Reported by: Bank
Shift A: 5K
Shift B: 7un
Shift C: 7un

ACE

DOE

Date 5/11/23

Item	Description	Morning			Afternoon			Night			Remark
		Normal	Abnormal	Level (L/M/H)	Normal	Abnormal	Level (L/M/H)	Normal	Abnormal	Level (L/M/H)	
1	Rooftop Water Tank	/		H	/		H	V	-	H	
2	Cooling Tower no.	/		A/M /Off	/		A/M /Off	V	-	A/M /Off	
3	Bleed Off Blowdown	Tank 10/100	PH 6.8	Conduct	Tank 10/100	PH 8.9	Conduct 1510	Tank 10/100	PH 8.8	Conduct 1517	
4	Television System										
Heat Pump System		Supply T.	Return T.	Pump Status	Supply T.	Return T.	Pump Status	Supply T.	Return T.	Pump Status	
5	Heat pump Zone 1 (FL 28-FL 34)	48	50	A/M /Off	49	49	A/M /Off	52	51	A/M /Off	
6	Heat pump Zone 2 (FL 21-FL 27)	50	57	A/M /Off	51	57	A/M /Off	43	51	A/M /Off	
7	Heat pump Zone 3 (FL 14-FL 20)	42	45	A/M /Off	48	47	A/M /Off	46	46	A/M /Off	
8	Heat pump Zone 4 (FL 5-FL 12)	55	50	A/M /Off	54	51	A/M /Off	54	52	A/M /Off	
9	Heat pump Zone 5 (G - FL 4)	51	50	A/M /Off	49	74	A/M /Off	48	44	A/M /Off	
10	Booster Pump Room	43	10	A/M /Off	44	10	A/M /Off	40	10	A/M /Off	
11	Electrical Main Meter	/			/			/			
Chiller Plant System		Load %	Chilled Temp	Condenser Temp	Load %	Chilled Temp	Condenser Temp	Load %	Chilled Temp	Condenser Temp	
12	Chiller Running no. 4	90%	51/45	67/44	86%	51/45	61.7/43.1	84%	51/46	88.6/44.5	
13	LSCHP	Run No. 1	P. in 200	P. out 265	Run No. 1	P. in 200	P. out 265	Run No. 1	P. in 200	P. out 265	
14	HSCHP	Run No. 1	P. in 200	P. out 260	Run No. 1	P. in 200	P. out 260	Run No. 1	P. in 200	P. out 260	
15	CDP	Run No. 4	P. in 155	P. out 165	Run No. 4	P. in 165	P. out 165	Run No. 4	P. in 165	P. out 175	
16	PCHP	Run No. -	P. in -	P. out -	Run No. -	P. in -	P. out -	Run No. -	P. in -	P. out -	
13	Swimming Pool	PH 7.2	CL 1.5	Salt 3.4	PH 7.2	CL 1.0	Salt 3.4	PH 8.2	CL 1.5	Salt 3.9	
14	Jacuzzi	7.8	0.5	A/M /Off	8.2	1.0	A/M /Off	9.6	1.5	A/M /Off	
15	Server Room	Room Temp.		Normal/Abnormal	Room Temp.	19.C	Normal/Abnormal	Room Temp.		Normal/Abnormal	
Fire Pump System		Fire Engine	Jockey pump	Water Pressure	Fire Engine	Jockey pump	Water Pressure	Fire Engine	Jockey pump	Water Pressure	
16	Fire pump & Jockey Pump at Basement floor	A/M /Off	A/M /Off	300/300	A/M /Off	A/M /Off	300/300	A/M /Off	A/M /Off	300/300	

P

Item	Description	Water Level	Pressure	Flow Rate	Water Level	Pressure	Flow Rate	Water Level	Pressure	Flow Rate	Water Level	Pressure	Flow Rate
		L/M/H	PPM	Level	L/M/H	PPM	Level	L/M/H	PPM	Level	L/M/H	PPM	Level
17	Cold water Pump at Basement floor	L/M/H	-	A/M /Off	L/M/H	-	A/M /Off	L/M/H	-	A/M /Off	L/M/H	-	A/M /Off
18	Softener System (Hardness/Brine tank/Status)	PPM	Level 400	L/L2	PPM	Level 400	L/L2	PPM	Level 400	L/L2	PPM	Level 400	L/L2
Boiler System & Feedwater pump		Running No.	Pressure	Steam Temp	Running No.	Pressure	Steam Temp	Running No.	Pressure	Steam Temp	Running No.	Pressure	Steam Temp
19	Boiler System	1	120	1295	1	400		1	110	427			
Waste water Treatment & Sludge pump system		Running No.	Pump Status	System	Running No.	Pump Status	System	Running No.	Pump Status	System	Running No.	Pump Status	System
20	Equalization Pump EQP-1, EQP-2	-	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal
21	Ejector Pump EJ-1	-	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal
22	Effluent Pump EFP-1, EFP-2	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal
23	Aerator Pump A-1, A-2, A-3	1,2	A/M /Off	Normal/Abnormal	1,2,3	A/M /Off	Normal/Abnormal	1,2,3	A/M /Off	Normal/Abnormal	1,2,3	A/M /Off	Normal/Abnormal
24	Air Lift Solenoid SV-1, SV-2, SV-3	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal	1	A/M /Off	Normal/Abnormal
25	Sludge Pump SLP-1, SLP-2	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal	-	A/M /Off	Normal/Abnormal
Elevator System		Lighting	Panel bottom	System	Lighting	Panel bottom	System	Lighting	Panel bottom	System	Lighting	Panel bottom	System
26	Hotel Guest Elevator no. P1, P2, P3, P4	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal
27	Hotel Staff Service Elevator no. S1, S2	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal
28	Car Park Guest Elevator no. P1, P2	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal
29	Car Park Staff Elevator no. S1	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal	/	/	Normal/Abnormal
LPG Station / Water LV		M	A	N	LINE 1	LINE 2	SPARE	LINE 1	LINE 2	SPARE	LINE 1	LINE 2	SPARE
30	Main KC	20%	-	20	2	2	0	2	2	-	2	2	-
31	Canteen	20%	-	20	2	2	0	2	2	-	2	2	-
32	Laundry	20%	-	61	6	6	6	6	6	-	6	6	6

Reported by

Shift A:

Bank

ACE

DOE

Shift B:

Shift C:

SAP

P

Engineering Department

Daily Machinery & System Inspection Report

Date 24-12-66

Item	Description	Morning			Afternoon			Night			Remark
1	Rooftop Water Tank	✓	-	H	✓	-	H	✓	-	H	
2	Cooling Tower no. 1/2/3	✓	-	(A)/M /Off	✓	-	(A)/M /Off	✓	-	(A)/M /Off	
3	Bleed Off blowdown	Tank 180/190 PH 8.8 Conduct 1450			Tank 180/190 PH 8.9 Conduct 1540			Tank 180/190 PH 8.9 Conduct 1540			
4	Television System	✓	-		✓	-		✓	-		
5	Heat pump Zone 1 (FL 28-FL 34)	36	37	(A)/M /Off	42	41	(A)/M /Off	36	37	(A)/M /Off	
6	Heat pump Zone 2 (FL 21-FL 27)	38	39	(A)/M /Off	41	41	(A)/M /Off	45	46	(A)/M /Off	
7	Heat pump Zone 3 (FL 14-FL 20)	46	47	(A)/M /Off	46	46	(A)/M /Off	46	47	(A)/M /Off	
8	Heat pump Zone 4 (FL 5-FL 12)	42	43	(A)/M /Off	45	43	(A)/M /Off	45	43	(A)/M /Off	
9	Heat pump Zone 5 (G-FL 4)	40	41	(A)/M /Off	37	38	(A)/M /Off	37	37	(A)/M /Off	
10	Booster Pump Room	40	10	(A)/M /Off	42	10	(A)/M /Off	42	10	(A)/M /Off	
11	Electrical Main Meter	✓	-		✓	-		✓	-		
12	Chiller Running no. 2	25.7/48.3/45.3	76/79.6	46.8/4	48.2/46.1	77.4/80.3	46.5	47.3/46.2	78.3/82.4		
13	LSCHP	Run No. 1 P. In 200 P. out 285			Run No. 1 P. In 200 P. out 285			Run No. 1 P. In 200 P. out 285			
14	HSCHP	Run No. 1 P. In 200 P. out 265			Run No. 1 P. In 200 P. out 250			Run No. 1 P. In 200 P. out 250			
15	CDP	Run No. 4 P. In 165 P. out 175			Run No. 4 P. In 16 P. out 175			Run No. 4 P. In 175 P. out 175			
16	PCHP	Run No. - P. In - P. out -			Run No. - P. In - P. out -			Run No. - P. In - P. out -			
13	Swimming Pool	PH 7.8 CL 1.0 Salt 3700			PH 7.8 CL 0.2 Salt 3000			PH 7.8 CL 0.5 Salt 3600			
14	Jacuzzi	7.8 1.5 (A)/M /Off			8.2 0.2 (A)/M /Off			8.2 0.2 (A)/M /Off			
15	Server Room	Room Temp. 19.5	Normal/Abnormal		Room Temp. 19.5	Normal/Abnormal		Room Temp.	Normal/Abnormal		
Fire Pump System											
16	Fire pump & Jockey Pump at Basement floor	Fire Engine (A)/M /Off	Jockey Pump (A)/M /Off	Water Pressure 500/300	Fire Engine (A)/M /Off	Jockey Pump (A)/M /Off	Water Pressure 300/300	Fire Engine (A)/M /Off	Jockey Pump (A)/M /Off	Water Pressure 300/300	

p

17	Cold water Pump at Basement floor	L/M/H		A/M /Off	L/M/H	-	A/M /Off	L/M/H		A/M /Off	
18	Softener System(Hardness /Brine tank/ Status)	- PPM Level 400	LI/L2	- PPM Level 400	LI/L2		PPM Level 400	LI/L2			
19	Boiler System	1	110	1	0.8 MPa	-	1	0.8 MPa			
20	Equalization Pump EQP-1, EQP-2	1	A/M /Off	Normal /Abnormal	1	A/M /Off	Normal /Abnormal	-	A/M /Off	Normal /Abnormal	
21	Ejector Pump EJ-1	-	A/M /Off	Normal /Abnormal	-	A/M /Off	Normal /Abnormal	1	A/M /Off	Normal /Abnormal	
22	Effluent Pump EFP-1, EFP-2	1	A/M /Off	Normal /Abnormal	1	A/M /Off	Normal /Abnormal	2	A/M /Off	Normal /Abnormal	
23	Aerator Pump A-1, A-2, A-3	1, 2, 3	A/M /Off	Normal /Abnormal	1, 2, 3	A/M /Off	Normal /Abnormal	2, 3	A/M /Off	Normal /Abnormal	
24	Air Lift Solenoid SV-1, SV-2, SV-3	-	A/M /Off	Normal /Abnormal	-	A/M /Off	Normal /Abnormal	-	A/M /Off	Normal /Abnormal	
25	Sludge Pump SLP-1, SLP-2	-	A/M /Off	Normal /Abnormal	-	A/M /Off	Normal /Abnormal	-	A/M /Off	Normal /Abnormal	
26	Hotel Guest Elevator no. P1, P2, P3, P4	✓	-	Normal /Abnormal	✓	-	Normal /Abnormal	✓	✓	Normal /Abnormal	
27	Hotel Staff Service Elevator no. S1, S2	✓	-	Normal /Abnormal	✓	-	Normal /Abnormal	✓	✓	Normal /Abnormal	
28	Car Park Guest Elevator no. P1, P2	✓	-	Normal /Abnormal	✓	-	Normal /Abnormal	✓	✓	Normal /Abnormal	
29	Car Park Staff Elevator no. S1	✓	-	Normal /Abnormal	✓	-	Normal /Abnormal	✓	✓	Normal /Abnormal	
UPG Station / Water LV M A N											
30	Main KC	65	30+	2	2	-	2	0	2	2	0
31	Canteen	70	65+	2	2	-	2	0	2	2	0
32	Laundry	60	70+	6	6	6	6	0	2/6	6	0

Reported by

Shift A: SAK

ACE

DOE

Shift B: Tangmo

Shift C: Boy



ห้างหุ้นส่วนจำกัด เจ แอนด์ พี แลนด์สเคป

J & P LANDSCAPE LIMITED PARTNERSHIP

59/96 หมู่ที่ 4 ตำบลบึงชำอ้อ อำเภอนนทบุรี จังหวัดปทุมธานี

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รายงานการปฏิบัติงานตัดแต่งสวนประจำเดือน สิงหาคม 2566





ห้างหุ้นส่วนจำกัด เจ แอนด์ พี แลนด์สเคป

J & P LANDSCAPE LIMITED PARTNERSHIP

59/96 หมู่ที่ 4 ตำบลบึงชำอ้อ อำเภอหนองเสือ จังหวัดปทุมธานี

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