

香港電燈有限公司
The Hongkong Electric Co., Ltd.



**Lamma Power Station
Units L2, L4 & L5 Flue Gas Desulphurization
Plants Retrofit
Operational Phase**

Quarterly Environmental Monitoring & Audit Report

July – September 2013

香港電燈有限公司
The Hongkong Electric Co., Ltd.



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMITS NO. EP-248/2006 & EP-287/2007

**LAMMA POWER STATION
UNITS L2, L4 & L5 FLUE GAS DESULPHURIZATION PLANTS RETROFIT**

**ENVIRONMENTAL MONITORING & AUDIT PROGRAMME
AT OPERATIONAL PHASE**

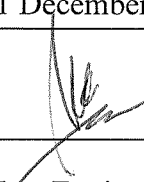
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EXECUTIVE SUMMARY

This is the quarterly Environmental Monitoring and Audit (EM&A) report for the Projects “Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit” and “Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air and water quality and environmental audit for the operation of the said projects in the period from July to September 2013.

Environmental monitoring for air quality and water quality were carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences. The results were checked against the established Action/Limit (AL) levels. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

Plant Availability

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L4	17/07/2013 20:10 to 18/07/2013 06:50	Defect Rectification
L4	17/09/2013 20:03 to 23/09/2013 06:35	Defect Rectification
L5	24/08/2013 14:04 to 26/08/2013 06:28	Defect Rectification

Malfunction/Outage Records of Pollution Control Equipment

Major outages of the Pollution Control Equipment during the reporting period are listed below:

Equipment	Period	Cause	Actions Taken
L4 FGD	06:10 to 06:20 14:19 to 14:42 on 14/07/2013	Single fan group operation for defect rectification works and for “B” fan group maintenance.	EPD was informed by letter dated 17/07/2013.
L4 FGD	09:40 to 13:13 on 16/07/2013	FGD plant was bypassed due to the mal-operation of its Booster Fan (BUF) stalling protection.	EPD was informed by letter dated 17/07/2013

Equipment	Period	Cause	Actions Taken
L5 FGD	08:48 on 26/07/2013 to 00:38 on 10/08/2013	FGD was bypassed due to operation of its booster fan stalling protection. A comprehensive inspection and necessary maintenance work have been conducted.	EPD was informed by letter dated 13/08/2013
L5 FGD	13:13 to 20:13 on 30/08/2013	FGD was bypassed for removing the 5B absorber recirculating pump blank plate after maintenance work.	EPD was informed by letter dated 02/09/2013

For other minor outages, please refer to section 1.4 of the report.

Environmental Monitoring Works

Environmental monitoring works were performed during the operation of Units L2, L4 and L5 FGD Plants in the reporting period.

Air Quality

No exceedance of Action and Limit levels for air quality were recorded in the reporting period.

Water Quality

No exceedance of Action and Limit levels for water quality were recorded in the reporting period.

Environmental Licensing and Permitting

Description	Permit / Licence No.	Valid Period		Issued To	Date of Issuance
		From	To		
Environmental Permit for L4/5 FGD plants retrofit project	EP-248/2006	25/04/2006	-	HK Electric	25/04/2006
Environmental Permit for Unit L2 FGD plant retrofit project	EP-287/2007	02/10/2007	-	HK Electric	02/10/2007
Specified Processes Licence issued under APCO	L-7-002(9)	01/01/2013	31/12/2014	HK Electric	28/12/2012
WPCO discharge licence for Ash Lagoon	WT00011131-2011	15/12/2011	31/12/2016	HK Electric	15/12/2011

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints

No environmental concern against the operation of Lamma Power Station was received during the reporting period.

Future key issues

Key issues to be considered in the coming months include:

Air Impact

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

Water Impact

- To continuously carry out the water quality monitoring for FGD WWT plant.

Concluding Remarks

The environmental performance of the projects was generally satisfactory.

1. INTRODUCTION

The Environmental Team (hereinafter called the “ET”) was formed within The Hongkong Electric Co. Ltd (HK Electric) to undertake Environmental Monitoring and Audit for the “Operation of Lamma Power Station Units L4 & L5 Flue Gas Desulfurization Plant Retrofit Project” under the requirements of Clause 2.18 of Environmental Permit (EP) No. EP-248/2006 and “Operation of Lamma Power Station Unit L2 Flue Gas Desulfurization Plant Retrofit Project” under the requirements of Clause 2.10 of Environmental Permit (EP) No. EP-287/2007.

This report summarizes the environmental monitoring and audit work for the said Projects for the period from July to September 2013.

1.1 Background

The Projects involves retrofitting the three existing coal-fired generating Units L2, L4 and L5 of Lamma Power Station with Flue Gas Desulphurisation (FGD) plants for reducing sulphur dioxide emissions in support of Government policy to improve the air quality of the Pearl River Delta.

The Projects include the installation and operation of FGD plants with flue gas desulphurization efficiency of 90% for the three coal-fired Units L2, L4 & L5 to reduce the overall SO₂ emissions from Lamma Power Station. The process adopted for the FGD plants is “Wet Limestone-Gypsum”, a technology which has already been used in, and proved effective and reliable for the existing coal-fired units L6, L7 & L8. The flue gas from the boiler is directed to the FGD absorber inside which removal of SO₂ is take place by reaction with limestone slurry. After passing through the absorber, the treated flue gas is heated up by a gas-gas heater to over 80°C at boiler rated capacity and directed back to the existing chimney for discharge to the atmosphere. Figure 1.1a, Figure 1.1b, Figure 1.2a, Figure 1.2b and Figure 1.3 show the location and schematic of the FGD plants.

Wastewater filtrated from the reacted limestone slurry, i.e. gypsum slurry, is produced and it is directed to the existing FGD wastewater treatment plant (WWTP). The FGD WWTP is designed to treat the effluent from FGD plants by alkalization, precipitation and neutralization processes. The schematic diagram of the FGD WWTP is illustrated in Figure 1.4.

The additional equipment for the FGD Plants retrofit projects for Units L2, L4 and L5 includes:

- Three sets of FGD absorbers and associated ductworks
- Three sets of booster fans
- Three sets of gas-gas heaters
- Two FGD Switchgear and Equipment Buildings
- Gypsum dewatering system comprising two sets of hydrocyclones and belt filters

1.2 Project Organisation

The management structure to oversee the Projects includes the following:

- Environmental Protection Department (The Authority);
- General Manager (Corporate Development) (The official contact person between HK Electric and EPD);
- Environmental Team Leader (ET Leader);
- Environmental Team (ET).

The organization chart for the Operation EM&A programme is shown in Figure 1.5.

1.3 Plant Availability during the Reporting Period

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L4	17/07/2013 20:10 to 18/07/2013 06:50	Defect Rectification
L4	17/09/2013 20:03 to 23/09/2013 06:35	Defect Rectification
L5	24/08/2013 14:04 to 26/08/2013 06:28	Defect Rectification

1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L2 FGD	05/07/2013 03:47 to 03:52	Routine damper exercise	EPD was informed on 10/07/2013
L2 FGD	30/08/2013 01:46 to 01:48	Routine damper exercise	EPD was informed on 02/09/2013
L2 FGD	20/09/2013 02:45 to 02:50	Routine damper exercise	EPD was informed on 25/09/2013
L4 FGD	06/07/2013 02:28 to 02:42	Routine damper exercise	EPD was informed on10/07/2013
L4 FGD	13/07/2013 03:05 to 03:07	Routine damper exercise	EPD was informed on 16/07/2013

Equipment	Period	Cause	Actions Taken
L4 FGD	14/07/2013 06:10 to 06:20 14:19 to 14:42	Single fan group operation for defect rectification works and for "B" fan group maintenance.	EPD was informed by letter dated 17/07/2013.
L4 FGD	16/07/2013 09:40 to 13:13	FGD plant was bypassed due to the mal-operation of its Booster Fan (BUF) stalling protection.	EPD was informed by letter dated 17/07/2013
L4 FGD	27/07/2013 01:21 to 01:34	Routine damper exercise	EPD was informed on 30/07/2013
L4 FGD	03/08/2013 03:55 to 04:00	Routine damper exercise	EPD was informed on 07/08/2013
L4 FGD	10/08/2013 02:33 to 02:38	Routine damper exercise	EPD was informed on 13/08/2013
L4 FGD	17/08/2013 02:52 to 03:03	Routine damper exercise	EPD was informed on 21/08/2013
L4 FGD	23/08/2013 02:01 to 02:03	Routine damper exercise	EPD was informed on 28/08/2013
L4 FGD	31/08/2013 03:15 to 03:19	Routine damper exercise	EPD was informed on 02/09/2013
L4 FGD	07/09/2013 02:38 to 02:42	Routine damper exercise	EPD was informed on 11/09/2013
L4 FGD	14/09/2013 02:12 to 02:19	Routine damper exercise	EPD was informed on 18/09/2013
L4 FGD	21/09/2013 01:24 to 01:27	Routine damper exercise	EPD was informed on 25/09/2013
L5 FGD	06/07/2013 02:08 to 02:24	Routine damper exercise	EPD was informed on 10/07/2013
L5 FGD	13/07/2013 03:00 to 03:04	Routine damper exercise	EPD was informed on 16/07/2013
L5 FGD	20/07/2013 02:47 to 02:55	Routine damper exercise	EPD was informed on 24/07/2013
L5 FGD	08:48 on 26/07/2013 to 00:38 on 10/08/2013	FGD was bypassed due to operation of its booster fan stalling protection. A comprehensive inspection and necessary maintenance work have been conducted.	EPD was informed by letter dated 13/08/2013
L5 FGD	17/08/2013 02:44 to 02:46	Routine damper exercise	EPD was informed on 21/08/2013

Equipment	Period	Cause	Actions Taken
L5 FGD	30/08/2013 13:13 to 20:13	FGD was bypassed for removing the 5B absorber recirculating pump blank plate after maintenance work.	EPD was informed by letter dated 02/09/2013
L5 FGD	07/09/2013 02:31 to 02:33	Routine damper exercise	EPD was informed on 11/09/2013
L5 FGD	14/09/2013 02:12 to 02:19	Routine damper exercise	EPD was informed on 18/09/2013
L5 FGD	21/09/2013 01:24 to 01:27	Routine damper exercise	EPD was informed on 25/09/2013

1.5 Summary of EM&A Requirements

Environmental Monitoring and Audit (EM&A) requirements have been discussed in the Environmental Impact Assessment (EIA) Report/ Project Profile for the Projects. The assessment results indicate that environmental monitoring works required for the EM&A programmes of these Projects are already in place or would be implemented under Lamma Power Station Extension Environmental Permit or environmental licenses for the operation of the existing Lamma Power Station. Such monitoring works are considered adequate for the Projects and no additional EM&A activities are required. Hence, environmental monitoring for air quality and water quality are carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences.

The EM&A monitoring work for air and water quality are described in Section 2 and Section 3 respectively.

The following environmental audits are summarized in Section 4 of the report:

- Environmental monitoring results;
- The status of environmental licensing and permits for the Projects;
- The implementation status of environmental protection and pollution control / mitigation measures.

The future key issues for the Projects will be reported in Section 5 of this report.

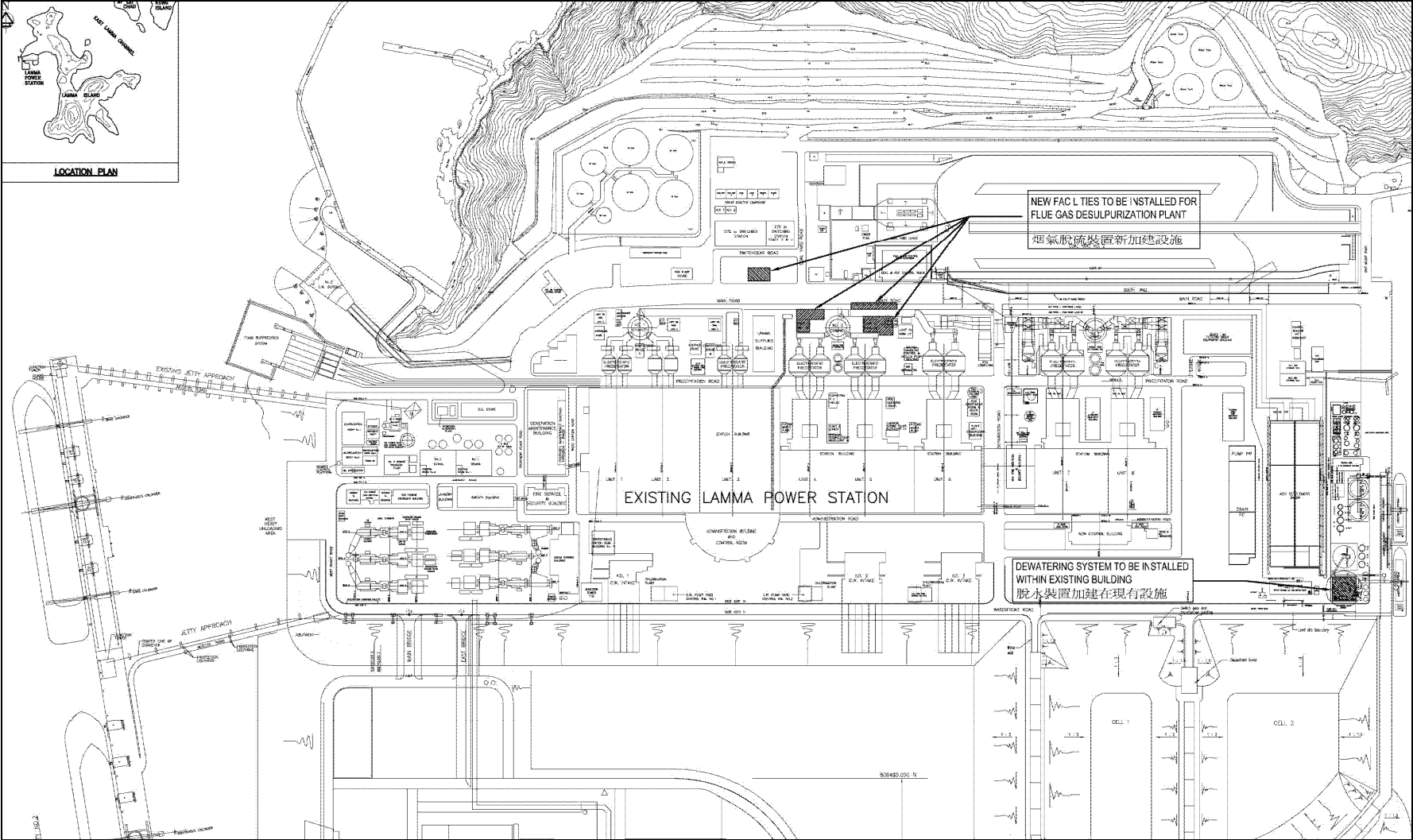


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

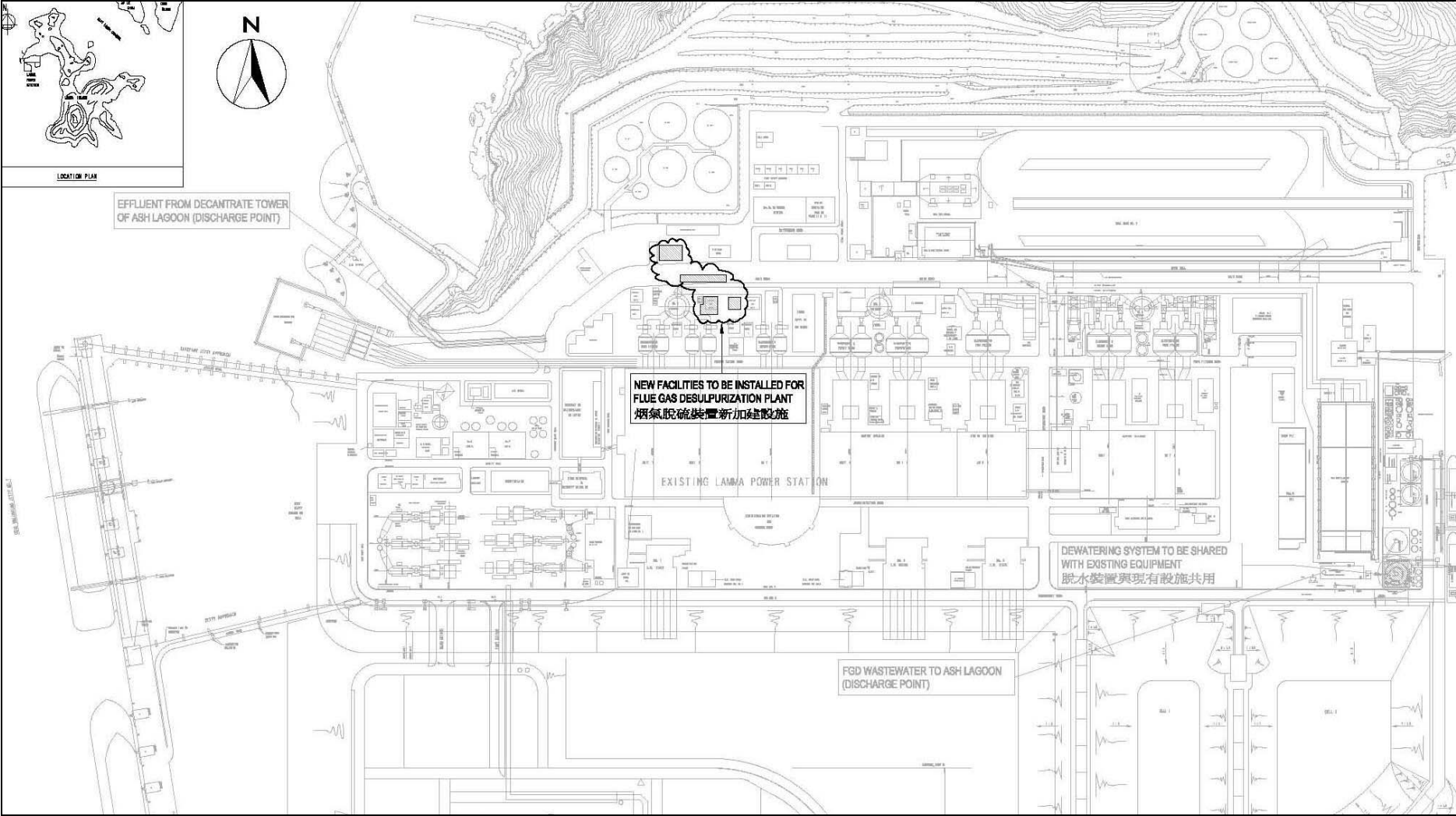


Figure 1.1b Location of New Facilities for L2 FGD Plant

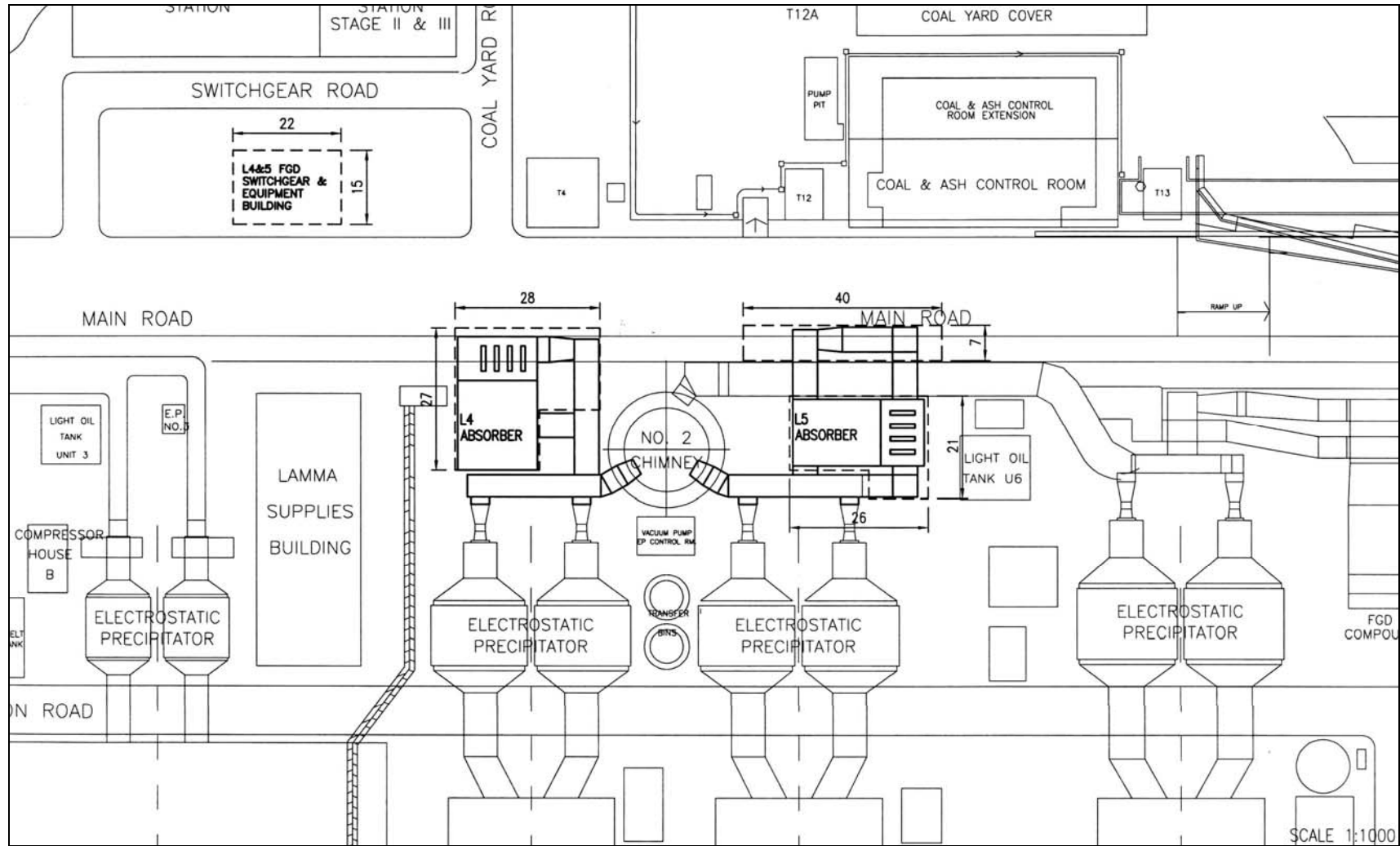


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

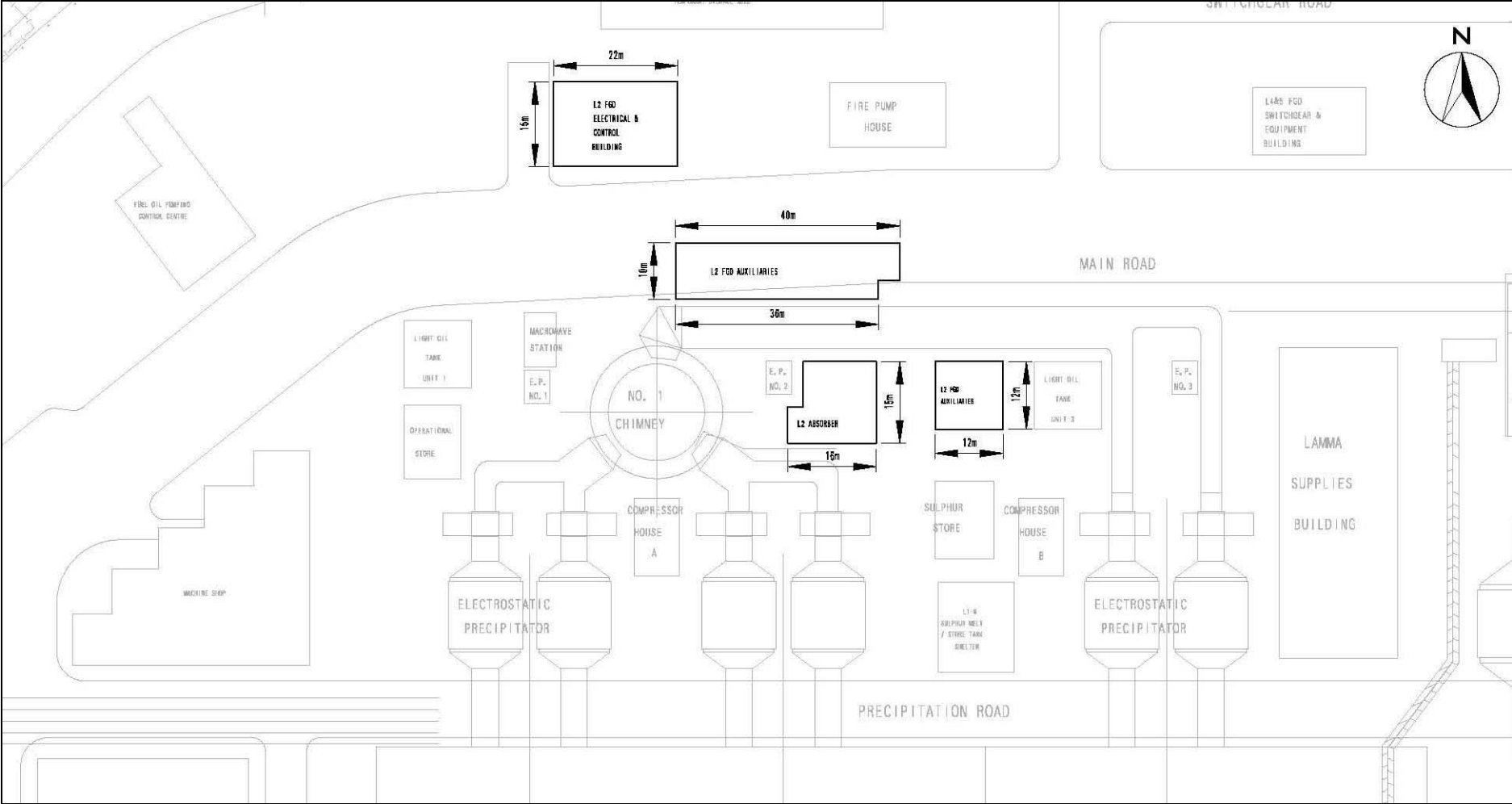


Figure 1.2b General Arrangement of L2 FGD Plant

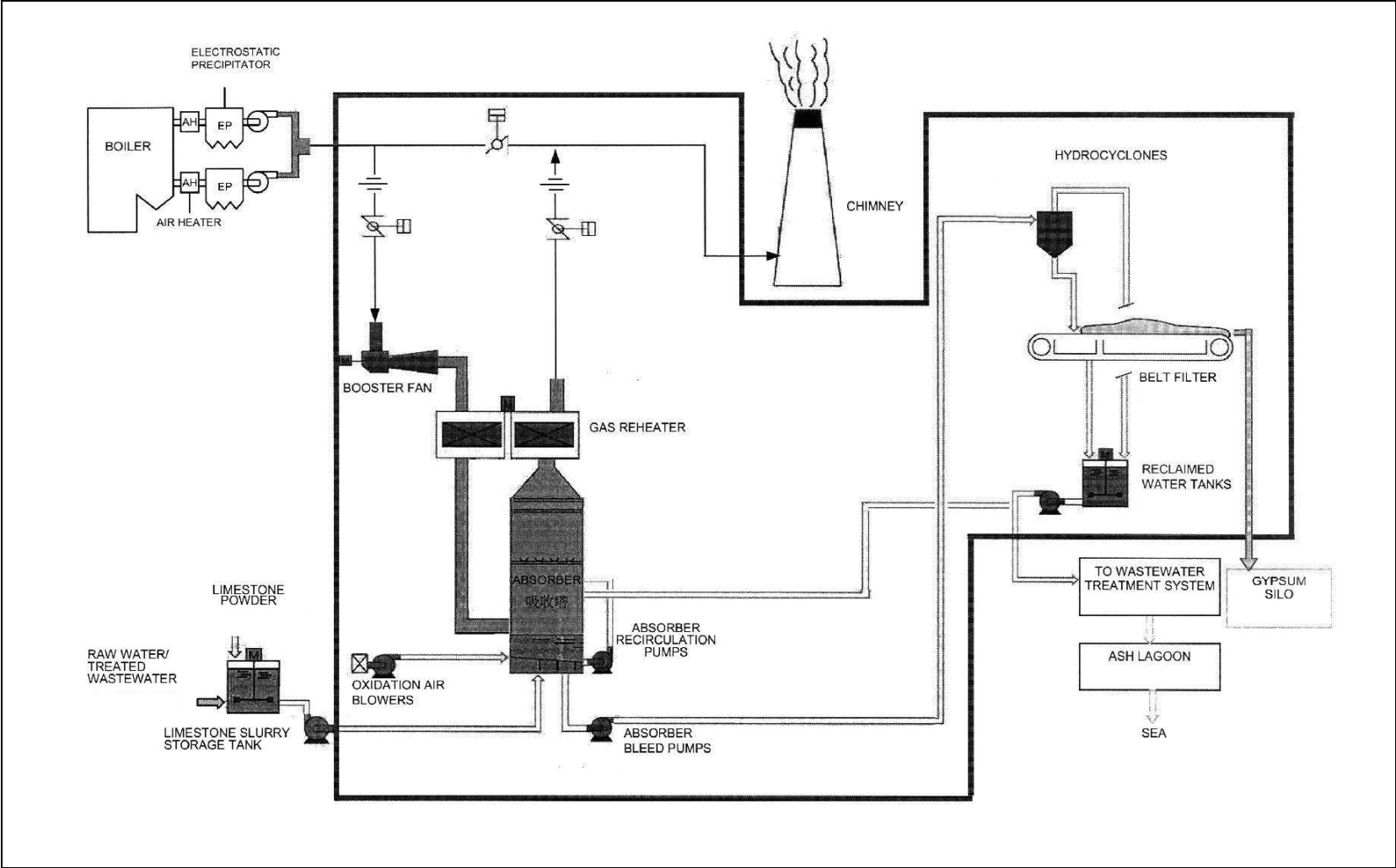


Figure 1.3 Schematic Diagram of the L4 & L5 FGD Plant

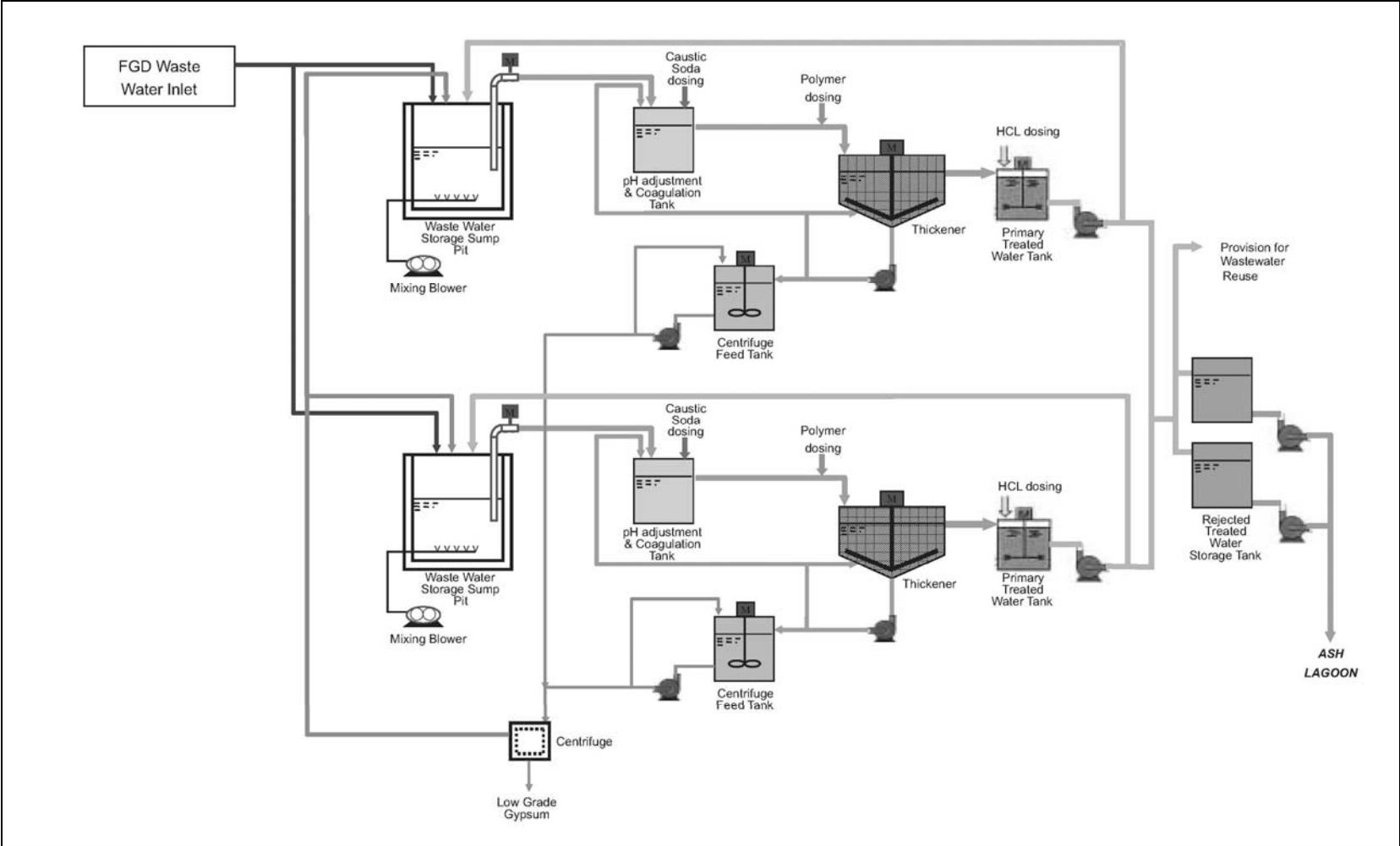


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

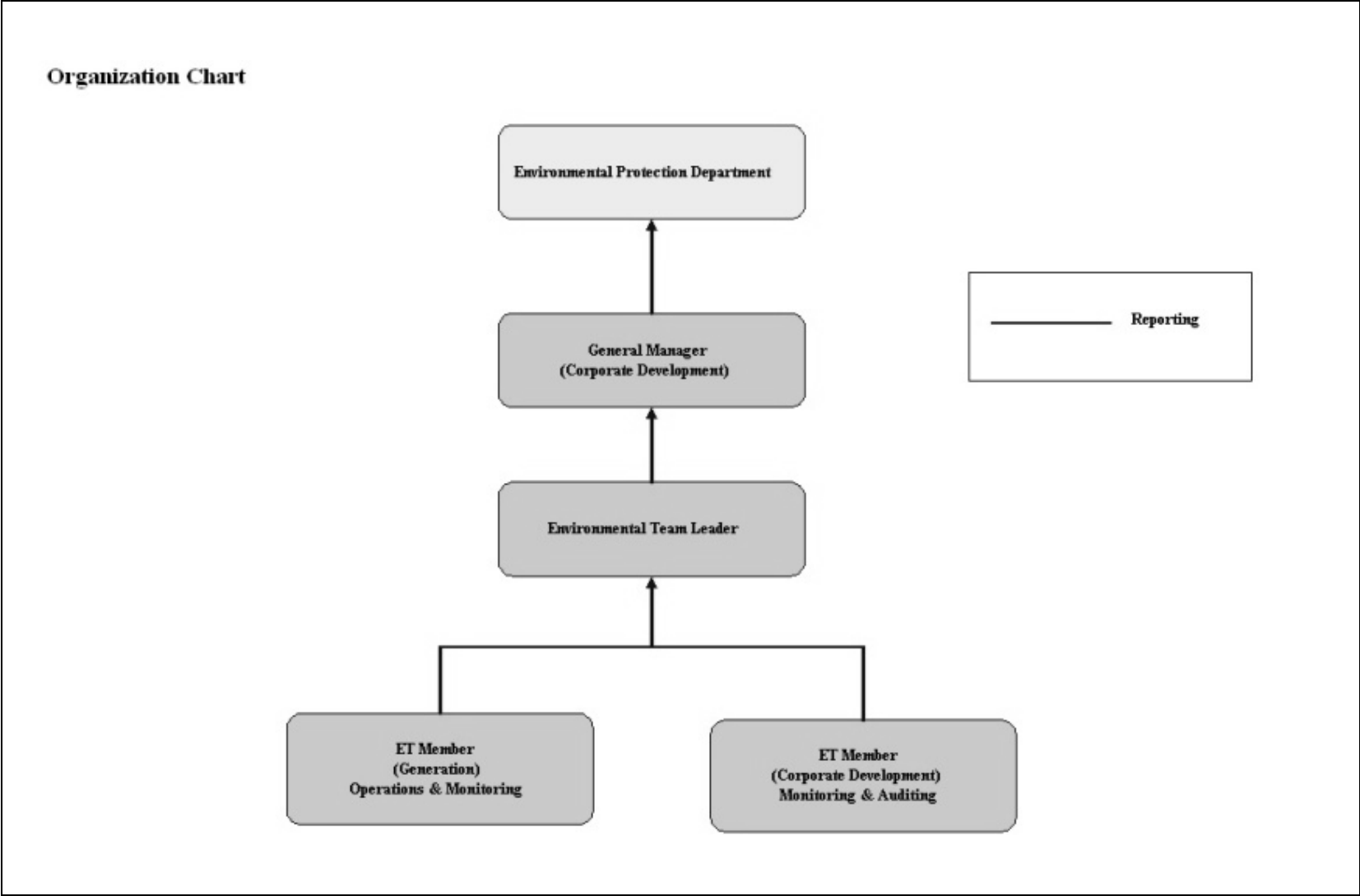


Figure 1.5 Organization Structure at Operational Phase of the Projects

2. AIR QUALITY

2.1 Monitoring Requirements

Since the Projects will bring a general air quality improvement, no additional EM&A activities are considered required, besides those already in place, such as those required by specified process licenses for the operation of the existing Lamma Power Station. In accordance with the requirements stipulated in the Specified Processes Licence issued under Air Pollution Control Ordinance, various operation parameters as stated in Table 2.1 were monitored and checked against the Action/Limit Levels shown in Appendix A.

Table 2.1 Air Quality Monitoring Parameters and Frequency

Sources of Emission	Parameter	Frequency
Steam boilers L2, L4 & L5	Particulate	Once / year
	Particulate (Opacity)	Continuous
	SO ₂	Continuous
	NO _x expressed as NO ₂ (For L4 and L5 only)	Continuous
Fugitive Dust (Coal, PFA, Limestone, gypsum)	Total Suspended Particulate	Once every six days
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations
	SO ₂	
	NO ₂	

2.2 Summary of Results and Observations

Monitoring of various parameters as listed in Table 2.1 above was conducted during the operation of Units L2, L4 and L5 in the reporting period. A summary of monitoring data is shown in Appendix B.

No Action/Limit Level exceedance was recorded in the reporting period.

3. WATER QUALITY

3.1 Monitoring Requirements

According to the EIA Report/ Project Profile for the Projects, the current monitoring programme for the Lamma Power Station can cover the Projects and no additional EM&A measures are required besides those already in place. Hence, the EM&A work on water quality should strictly follow the relevant monitoring requirements stipulated in the discharge licence for Ash Lagoon issued under the Water Pollution Control Ordinance (WPCO).

Water quality monitoring was carried out for FGD Waste Water Treatment Plant (WWTP) in the reporting period. The parameters stated in Table 3.1 were monitored and checked against the Action/Limit Levels as given in Appendix A.

Table 3.1 Water Quality Monitoring Parameters and Frequencies

Item	Parameters	Frequencies
1	pH	Daily
2	Suspended Solids	Daily
3	Iron	Monthly
4	Barium	Monthly
5	Mercury	Monthly
6	Cadmium	Monthly
7	Cyanide	Monthly
8	Total Phosphorus	Monthly
9	Total Nitrogen	Monthly

3.2 Summary of Results and Observations

Monitoring of various parameters as listed in Table 3.1 above was carried out during the discharge of the WWTP in the reporting period. A summary of the data is shown in Appendix C.

The data recorded for the monitoring parameters were all below their corresponding Action/Limit Levels. No Action/Limit level exceedance was recorded in the reporting period. The effluent quality was generally satisfactory.

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Water Quality

The environmental monitoring results for air quality, noise and water quality are presented in Sections 2, 3 and 4 respectively are summarized in Table 4.1.

Table 4.1 Summary of Action/Limit Level Exceedances on Monitoring Parameters

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/07/13-30/09/13	N.A.	0	
2	Continuous monitoring of opacity, NO _x , SO ₂ and CO ₂ in the flue gas at the chimney stacks	01/07/13-30/09/13	0	0	
3	TSP monitoring at Lamma Power Station Boundary (ie East Gate and Reservoir).	01/07/13-30/09/13	0	0	
4	Ambient SO ₂ & NO _x monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and	01/07/13-30/09/13	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
	Cheung Chau.				
Water					
1	pH in WWTP Effluent	01/07/13-30/09/13	0	0	
2	Suspended Solids in WWTP Effluent	01/07/13-30/09/13	0	0	
3	Iron in WWTP Effluent	01/07/13-30/09/13	0	0	
4	Barium in WWTP Effluent	01/07/13-30/09/13	0	0	
5	Mercury in WWTP Effluent	01/07/13-30/09/13	0	0	
6	Cadmium in WWTP Effluent	01/07/13-30/09/13	0	0	
7	Cyanide in WWTP Effluent	01/07/13-30/09/13	0	0	
8	Total Phosphorus in WWTP Effluent	01/07/13-30/09/13	0	0	
9	Total Nitrogen in WWTP Effluent	01/07/13-30/09/13	0	0	

Waste Management Records

The quantity of FGD gypsum and sludge collected for reuse by contractor in the reporting period are shown in Table 4.2.

Table 4.2 Amount of Gypsum and Sludge Collected for Reuse by Contractor

Period	Amount of Gypsum Collected	Amount of Sludge Collected
July 2013	4,642.3 MT	0 MT
August 2013	8,885.0 MT	153.8 MT
September 2013	4114.2 MT	0 MT

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of September 2013 are summarised in Table 4.3.

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit for Units L4/5 FGD Plants Retrofit	EP-248/2006	25/04/2006	-	Valid
Environmental Permit for Unit L2 FGD Plant Retrofit	EP-287/2007	02/10/2007	-	Valid
Specified Processes Licence issued under APCO	L-7-002(9)	01/01/2013	31/12/2014	Valid
WPCO discharge licence for Ash Lagoon	WT00011131-2011	15/12/2011	31/12/2016	Valid

4.4 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the EIA Report and EP are required to be implemented. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix D.

4.5 Implementation Status of Event/Action Plan

A list of specific actions in the event of exceedances of the various threshold levels for specific emission and discharge sources is given in Appendix A.

As no Action/Limit level exceedance was recorded, no action has been devised.

4.6 Implementation Status of Environmental Complaint Handling Procedures

During the reporting period, there was no environmental concern against the operation of Lamma Power Station.

Table 4.4 Environmental Complaints / Enquiries Received

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

Table 4.5 Outstanding Environmental Complaints / Enquiries Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

5. FUTURE KEY ISSUES

5.1 Outage Plan for the coming 3 months

Unit / Equipment	Period	Remark
L4	01/11/2013 to 30/12/2013	Unit overhaul

5.2 Key issues for the coming 3 months

Key issues to be considered in the coming 3 months include:

Air Impact

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

Water Impact

- To continuously carry out the water quality monitoring for FGD Waste Water Treatment Plant.

6. CONCLUSION

Environmental monitoring was performed as required in the reporting period from July to September 2013. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on air quality parameters were recorded in the reporting period.

No Action/Limit level exceedance on water quality parameters were recorded in the reporting period.

Environmental mitigation measures recommended in the EIA Report and EP were implemented in the reporting period. No environmental concern against the operation of Lamma Power Station was received during the reporting period. No prosecution was received for the Projects in the reporting period.

The environmental performance of the Projects was generally satisfactory.

Appendix A Event/Action Plans in Response to Exceedance of AL Levels

A.1 Air

Source of Emissions	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
Steam boilers L2, L4 and L5	Particulate	once/year	50 mg/Nm ³	-	50	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
	Particulate (Opacity)	continuous	40% (bihourly)	35	40	
	SO ₂	continuous	200 mg/Nm ³ (1h)	190	200	
	NO _x expressed as NO ₂ (For L4 and L5 only)	continuous	615 mg/Nm ³ (1h)	585	615	
Fugitive dust (Coal, PFA, limestone, gypsum)	TSP	Once every six days.	260 (µg/m ³) (24 hours)	-	260	Investigation of sources and additional dust suppression to be employed at Limit level. Frequency of monitoring to be increased as necessary.
Chimney emissions	Ambient air SO ₂	Continuous at existing ambient air monitoring stations	800 (µg/m ³) (1h)	-	800	ET to review data on post-hoc basis and check for possible power station contribution.
	NO ₂		300 (µg/m ³) (1h)	-	300	

A.2 Water

Source of Discharges	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
FGD Wastewater Treatment Plant	pH	Daily	6-9	-	6-9	If pH exceeds limit level, consideration to be given to adjust chemical dosing. ET Leader inform Generation Division and investigation be initiated to identify and remedy cause. For all other parameters except pH, Generation Division to be informed, frequency of monitoring to be increased, and investigations to be initiated to identify cause and remedy if concentration exceeds action level. If problem persists to exceed the limit level, ET Leader verbally informs EPD and ensures remedial actions implemented.
	Suspended Solids	Daily	30 mg/L	25	30	
	Iron	Monthly	4 mg/L	3.6	4	
	Barium	Monthly	1.5 mg/L	1.3	1.5	
	Mercury	Monthly	0.005 mg/L	0.0045	0.005	
	Cadmium	Monthly	0.005 mg/L	0.0045	0.005	
	Cyanide	Monthly	0.1 mg/L	0.09	0.1	
	Total Phosphorus	Monthly	8 mg/L	7.2	8	
	Total Nitrogen	Monthly	400 mg/L	360	400	

Appendix B

Air Quality Monitoring Results

B.1 Ambient Total Suspended Particulate Monitoring at Lamma Power Station

Date: Third Quarter of 2013 (July - September)

DATE	TSP CONCENTRATION ($\mu\text{g}/\text{m}^3$)		WEATHER INFORMATION (from Hong Kong Observatory)		
	Reservoir	East Gate	Mean Wind Speed (km/hr)	Prevailing Wind Dir. ($^{\circ}$)	Mean R.H. (%)
06/07/2013	25	15	20.5	210	81
12/07/2013	(1)	53	17.1	270	76
16/07/2013	12	-	10.9	120	94
18/07/2013	25	31	13.8	030	84
24/07/2013	16	25	22.3	120	95
30/07/2013	18	19	12.6	110	78
05/08/2013	24	24	7.8	220	73
11/08/2013	26	(1)	15.9	110	77
13/08/2013	-	35	54.3	070	86
17/08/2013	35	39	33.3	210	86
23/08/2013	27	36	42.1	230	84
29/08/2013	28	30	9.2	230	77
04/09/2013	15	20	22.1	090	96
10/09/2013	32	33	22.6	070	81
16/09/2013	(1)	43	39.5	100	79
18/09/2013	52	-	46.7	090	76
22/09/2013	64	72	45.1	010	78
28/09/2013	60	63	31.0	050	81

Remark: (1) Breakdown of High Volume Air Sampler

	TSP ($\mu\text{g}/\text{m}^3$)
Action Level	-
Limit Level	260

Equipment used: Reservoir & East Gate : High Volume Air Sampler

B.2 Unit L2, L4 and L5 Stack Monitoring at Lamma Power Station

B.2.1 Monthly Summary of Stack NO_x and SO₂ for Unit L5

Date	Daily Maximum		
	SO ₂ concentration (mg/Nm ³) [#]	NO _x concentration (mg/Nm ³) [#]	Opacity (%)
1/7/2013	57	423	14
2/7/2013	65	394	15
3/7/2013	52	436	14
4/7/2013	30	432	14
5/7/2013	24	380	15
6/7/2013	19	426	20
7/7/2013	21	431	13
8/7/2013	18	435	18
9/7/2013	28	387	19
10/7/2013	33	427	15
11/7/2013	29	521	14
12/7/2013	28	367	16
13/7/2013	33	415	16
14/7/2013	26	476	15
15/7/2013	33	463	17
16/7/2013	39	394	19
17/7/2013	31	377	17
18/7/2013	56	433	19
19/7/2013	27	408	18
20/7/2013	23	449	17
21/7/2013	17	375	16
22/7/2013	24	393	18
23/7/2013	27	478	18
24/7/2013	44	420	16
25/7/2013	50	407	17
26/7/2013	38	459	21
27/7/2013	FGD Plant Outage	351	20
28/7/2013	FGD Plant Outage	391	17
29/7/2013	FGD Plant Outage	331	20
30/7/2013	FGD Plant Outage	347	15
31/7/2013	FGD Plant Outage	379	15

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/8/2013	FGD Plant Outage	384	19
2/8/2013	FGD Plant Outage	357	15
3/8/2013	FGD Plant Outage	397	14
4/8/2013	FGD Plant Outage	330	13
5/8/2013	FGD Plant Outage	319	14
6/8/2013	FGD Plant Outage	351	15
7/8/2013	FGD Plant Outage	453	15
8/8/2013	FGD Plant Outage	407	13
9/8/2013	FGD Plant Outage	440	13
10/8/2013	40	375	16
11/8/2013	38	434	12
12/8/2013	31	365	12
13/8/2013	80	419	14
14/8/2013	115	486	14
15/8/2013	125	385	14
16/8/2013	80	383	15
17/8/2013	35	417	13
18/8/2013	77	454	16
19/8/2013	91	463	18
20/8/2013	81	438	18
21/8/2013	69	446	18
22/8/2013	128	411	19
23/8/2013	146	487	18
24/8/2013	44	462	14
25/8/2013	*	*	*
26/8/2013	140	456	16
27/8/2013	88	465	15
28/8/2013	70	445	15
29/8/2013	29	387	16
30/8/2013	36	352	18
31/8/2013	26	348	14

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/9/2013	22	394	14
2/9/2013	112	423	16
3/9/2013	63	425	17
4/9/2013	49	427	18
5/9/2013	26	364	19
6/9/2013	36	388	18
7/9/2013	43	439	19
8/9/2013	22	433	19
9/9/2013	18	355	19
10/9/2013	27	402	22
11/9/2013	94	385	22
12/9/2013	67	454	23
13/9/2013	52	451	21
14/9/2013	43	440	21
15/9/2013	27	389	20
16/9/2013	36	445	24
17/9/2013	34	435	23
18/9/2013	74	457	23
19/9/2013	61	477	25
20/9/2013	18	414	18
21/9/2013	46	449	21
22/9/2013	34	449	20
23/9/2013	84	442	21
24/9/2013	147	416	19
25/9/2013	101	396	17
26/9/2013	137	437	21
27/9/2013	65	441	18
28/9/2013	86	406	18
29/9/2013	49	394	18
30/9/2013	106	421	20

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L5 was not on load.

B.2.2 Monthly Summary of Stack NO_x and SO₂ for Unit L4

Date	Daily Maximum		
	SO ₂ concentration (mg/Nm ³) [#]	NO _x concentration (mg/Nm ³) [#]	Opacity (%)
1/7/2013	72	387	13
2/7/2013	66	439	12
3/7/2013	63	416	11
4/7/2013	75	424	11
5/7/2013	25	423	16
6/7/2013	24	393	12
7/7/2013	13	450	9
8/7/2013	20	431	18
9/7/2013	24	437	22
10/7/2013	13	415	30
11/7/2013	22	494	15
12/7/2013	31	428	16
13/7/2013	62	458	18
14/7/2013	25	487	19
15/7/2013	57	444	16
16/7/2013	41	439	18
17/7/2013	38	394	16
18/7/2013	36	439	12
19/7/2013	15	451	14
20/7/2013	16	390	16
21/7/2013	12	389	16
22/7/2013	16	398	16
23/7/2013	10	383	11
24/7/2013	12	404	11
25/7/2013	19	413	15
26/7/2013	13	401	11
27/7/2013	43	426	13
28/7/2013	16	336	10
29/7/2013	29	302	12
30/7/2013	36	305	12
31/7/2013	22	406	12

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/8/2013	22	402	11
2/8/2013	56	410	14
3/8/2013	57	407	10
4/8/2013	29	334	9
5/8/2013	60	353	11
6/8/2013	78	374	11
7/8/2013	110	415	12
8/8/2013	88	404	16
9/8/2013	75	430	13
10/8/2013	90	412	15
11/8/2013	50	397	11
12/8/2013	45	403	14
13/8/2013	102	377	19
14/8/2013	137	449	12
15/8/2013	129	442	13
16/8/2013	104	432	15
17/8/2013	47	399	11
18/8/2013	69	391	12
19/8/2013	86	473	13
20/8/2013	74	382	15
21/8/2013	48	357	15
22/8/2013	55	342	17
23/8/2013	125	358	13
24/8/2013	116	446	12
25/8/2013	110	465	11
26/8/2013	93	419	15
27/8/2013	49	393	12
28/8/2013	95	383	12
29/8/2013	43	413	16
30/8/2013	68	415	12
31/8/2013	124	449	10

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/9/2013	37	422	9
2/9/2013	69	464	16
3/9/2013	104	381	11
4/9/2013	91	436	18
5/9/2013	56	426	18
6/9/2013	86	393	18
7/9/2013	78	350	19
8/9/2013	51	449	16
9/9/2013	60	389	20
10/9/2013	77	418	23
11/9/2013	69	398	24
12/9/2013	85	453	21
13/9/2013	53	392	23
14/9/2013	68	406	21
15/9/2013	29	420	17
16/9/2013	108	417	20
17/9/2013	95	423	19
18/9/2013	*	*	*
19/9/2013	*	*	*
20/9/2013	*	*	*
21/9/2013	*	*	*
22/9/2013	*	*	*
23/9/2013	74	386	21
24/9/2013	116	463	14
25/9/2013	116	453	11
26/9/2013	54	429	9
27/9/2013	81	398	9
28/9/2013	109	422	9
29/9/2013	52	418	9
30/9/2013	107	383	9

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L4 was not on load.

B.2.3 Monthly Summary of Stack SO2 for Unit L2

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/7/2013	90	14
2/7/2013	84	14
3/7/2013	44	15
4/7/2013	20	15
5/7/2013	29	16
6/7/2013	28	15
7/7/2013	32	16
8/7/2013	24	15
9/7/2013	26	15
10/7/2013	35	15
11/7/2013	40	15
12/7/2013	43	16
13/7/2013	42	17
14/7/2013	54	17
15/7/2013	61	16
16/7/2013	*	*
17/7/2013	*	*
18/7/2013	*	*
19/7/2013	*	*
20/7/2013	*	*
21/7/2013	*	*
22/7/2013	*	*
23/7/2013	54	22
24/7/2013	44	19
25/7/2013	*	*
26/7/2013	*	*
27/7/2013	*	*
28/7/2013	*	*
29/7/2013	*	*
30/7/2013	2	14
31/7/2013	10	14

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/8/2013	18	15
2/8/2013	102	14
3/8/2013	*	*
4/8/2013	*	*
5/8/2013	18	13
6/8/2013	86	15
7/8/2013	52	15
8/8/2013	22	15
9/8/2013	43	15
10/8/2013	31	15
11/8/2013	119	14
12/8/2013	32	15
13/8/2013	99	15
14/8/2013	*	*
15/8/2013	*	*
16/8/2013	*	*
17/8/2013	*	*
18/8/2013	*	*
19/8/2013	127	15
20/8/2013	40	18
21/8/2013	29	18
22/8/2013	90	18
23/8/2013	65	18
24/8/2013	134	16
25/8/2013	143	15
26/8/2013	34	15
27/8/2013	16	15
28/8/2013	16	15
29/8/2013	15	15
30/8/2013	22	14
31/8/2013	14	15

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/9/2013	*	*
2/9/2013	151	14
3/9/2013	27	14
4/9/2013	*	*
5/9/2013	*	*
6/9/2013	*	*
7/9/2013	*	*
8/9/2013	*	*
9/9/2013	13	16
10/9/2013	35	17
11/9/2013	68	17
12/9/2013	100	16
13/9/2013	86	16
14/9/2013	44	15
15/9/2013	19	15
16/9/2013	60	16
17/9/2013	18	13
18/9/2013	46	15
19/9/2013	29	16
20/9/2013	18	14
21/9/2013	47	15
22/9/2013	*	*
23/9/2013	*	*
24/9/2013	96	17
25/9/2013	86	15
26/9/2013	59	13
27/9/2013	74	13
28/9/2013	53	14
29/9/2013	57	14
30/9/2013	67	14

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L2 was not on load.

B.2.4 Summary of Annual Stack Particulate Sampling

Unit	Date	Results (mg/Nm ³)
L5	30/08/2013	5

Monitoring Equipment: APEX model XC-522-V (Manual stack sampling system)

B.3 Ambient SO₂ and NO₂ monitoring Data at Southern District and Cheung Chau

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JULY

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	3	2	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
2	0	0	0	0	0	0	0	2	2	3	2	5	3	2	1	2	2	1	0	0	1	0	0	1	1
3	0	1	2	1	3	5	4	5	5	5	7	6	6	4	4	4	5	7	7	4	3	2	3	2	4
4	1	2	3	5	8	2	4	2	4	8	3	9	9	9	6	2	8	10	6	6	4	3	3	6	5
5	4	6	7	5	3	4	4	3	5	5	4	6	15	3	3	14	3	3	2	6	3	9	8	19	6
6	11	6	8	5	5	4	1	3	2	3	2	3	3	2	2	0	0	2	3	3	2	3	2	2	3
7	2	1	1	0	1	0	0	1	1	2	1	2	2	3	3	1	1	2	1	0	4	2	1	1	1
8	1	1	1	1	4	1	3	5	2	4	3	1	3	2	3	4	2	3	3	2	4	2	3	1	2
9	2	1	1	1	2	2	2	5	6	4	4	2	3	3	11	7	2	7	6	3	3	0	1	1	3
10	1	1	1	0	4	6	5	3	7	7	7	8	7	4	4	10	10	3	1	2	4	0	1	2	4
11	1	4	3	1	1	3	4	9	14	3	6	9	10	7	7	10	7	7	13	15	9	6	4	4	7
12	5	15	7	2	5	6	7	8	19	22	20	18	18	13	15	8	6	5	5	4	4	5	6	5	10
13	3	4	7	6	7	3	8	8	8	18	27	32	14	5	5	3	2	2	1	1	2	1	0	3	7
14	2	2	1	1	1	1	2	2	2	3	2	1	1	2	1	2	2	2	4	4	1	0	0	0	2
15	0	1	0	1	1	1	2	1	0	4	3	0	0	0	2	4	0	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	1	1	0	1	2	0	1	1	0	0	0	0	0	0	0	0	0
17	2	0	1	0	0	0	0	0	1	2	2	1	0	1	1	M	0	0	0	0	0	0	0	1	1
18	0	1	1	1	1	2	2	2	5	4	3	3	3	3	4	4	5	5	5	7	11	8	5	3	4
19	1	1	1	1	0	0	1	1	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	1	1	0	0	0	0	0	0	0
21	0	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0
22	1	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	0	1	1	0	1
23	1	1	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	1	0	0	0	1	1	0	0
24	0	0	1	0	1	1	0	1	1	1	0	1	0	0	1	1	1	1	1	0	0	0	1	0	1
25	2	1	0	0	1	1	0	0	2	0	M	3	1	0	1	1	2	2	3	1	1	1	1	0	1
26	1	0	2	2	1	2	2	1	0	1	2	2	2	0	0	1	1	1	2	5	2	4	4	3	2
27	4	3	1	1	1	1	3	2	2	3	3	3	5	3	1	2	1	2	3	2	1	0	3	5	2
28	6	4	3	5	6	3	4	5	3	3	4	5	4	3	2	2	3	2	3	4	2	1	1	0	3
29	0	0	1	0	1	0	0	0	0	1	1	1	2	2	8	4	5	4	4	4	2	3	4	3	2
30	2	0	1	1	1	0	0	1	3	3	25	18	9	13	7	3	1	0	0	0	0	1	1	0	4
31	0	2	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
2	1	3		1	6	8	14	18	0	-	32	0	-	10	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	9	8	5	5	5	6	3	4	1	2	2	1	1	1	1	2	6	7	5	6	5	7	9	9	5
2	8	5	4	3	4	4	6	9	10	10	15	14	8	8	10	14	16	17	16	17	16	16	14	10	11
3	8	M	8	4	7	12	15	20	19	22	26	17	19	16	18	21	20	27	23	25	24	22	19	11	18
4	8	9	10	14	15	4	12	14	15	20	11	19	16	18	13	12	21	27	22	25	26	19	19	21	16
5	14	15	15	14	12	12	11	12	14	19	17	22	43	16	17	38	16	16	18	32	29	37	34	47	22
6	38	26	27	18	17	17	10	15	12	15	16	20	13	14	10	16	10	12	22	27	25	34	30	16	19
7	10	7	5	5	6	8	8	17	20	15	10	8	10	11	15	13	17	22	21	21	25	21	14	18	14
8	13	8	6	7	13	11	16	19	12	16	12	11	13	13	12	13	16	19	18	20	28	30	30	25	16
9	12	10	11	8	9	10	16	27	28	22	19	13	12	14	21	19	21	25	28	28	21	5	20	18	17
10	4	4	7	5	13	22	21	17	27	22	30	24	28	22	24	40	36	20	16	19	40	16	12	15	20
11	9	9	9	5	6	8	17	24	27	19	26	23	32	25	27	30	31	28	38	47	41	35	38	29	24
12	16	20	10	5	21	23	20	19	27	33	37	41	36	27	35	16	12	16	25	30	20	23	28	22	23
13	13	11	18	14	17	8	18	21	17	34	47	60	37	16	18	18	15	17	18	14	15	28	16	18	21
14	5	5	2	1	1	2	8	5	8	11	11	9	8	7	9	20	17	16	30	30	15	16	14	4	11
15	3	7	5	4	2	6	12	10	10	21	19	13	9	15	29	28	22	22	25	8	7	16	17	9	13
16	8	6	4	2	0	6	10	14	14	10	11	10	32	23	24	23	18	17	23	21	7	18	14	9	14
17	11	M	7	4	4	1	3	8	21	24	23	21	9	19	20	M	17	9	6	4	1	2	2	3	10
18	2	5	10	6	3	3	3	9	45	44	33	28	12	22	33	33	25	53	50	33	18	10	8	4	21
19	3	1	3	3	2	1	7	18	26	23	19	M	16	27	28	19	18	16	6	3	2	1	0	1	11
20	0	0	1	0	0	0	4	6	9	15	18	20	16	9	13	23	26	26	13	6	5	2	7	10	10
21	5	4	5	4	3	6	1	5	3	7	6	5	5	4	5	6	6	5	5	4	4	0	2	2	4
22	1	1	0	0	1	1	0	3	12	16	14	19	6	12	20	14	18	14	8	6	5	4	5	2	8
23	3	3	0	3	2	0	2	4	10	16	15	13	5	11	10	20	17	11	8	5	8	6	6	1	7
24	0	0	0	1	3	1	1	3	15	20	27	25	15	19	24	25	22	20	13	17	12	4	2	4	11
25	10	2	1	0	2	3	4	6	15	15	M	23	16	18	9	12	13	14	20	12	17	13	12	4	10
26	5	3	2	8	2	3	7	11	6	8	11	11	8	6	7	14	12	11	10	18	15	20	17	13	10
27	16	9	1	2	3	2	10	9	15	12	14	9	10	11	9	10	15	20	24	32	23	12	13	15	12
28	16	10	6	10	10	4	7	10	11	12	14	18	16	15	12	13	17	16	27	24	21	26	9	10	14
29	6	1	4	3	4	2	4	7	11	14	19	10	19	19	20	17	21	15	24	23	23	17	19	10	13
30	12	1	1	6	4	5	4	17	29	37	37	33	25	24	19	20	14	10	12	8	6	5	4	4	14
31	2	5	2	2	1	3	2	4	8	9	7	6	5	6	7	5	6	9	9	4	4	3	1	0	5

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
10	12	14		12	27	32	38	44	0	-	60	4	-	24	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	1	0	1	0	0	0	0	0	1	0
4	0	1	1	0	2	1	6	4	6	4	2	1	2	2	5	3	7	6	6	7	4	1	7	4	3
5	0	0	0	1	1	8	2	12	8	9	20	31	19	12	12	33	41	23	17	11	9	12	16	8	13
6	4	0	1	4	6	4	2	2	1	2	2	1	1	1	0	1	1	0	1	0	0	1	1	0	2
7	1	1	1	0	1	0	0	0	1	2	0	0	1	1	1	1	1	2	0	0	0	0	0	2	1
8	3	3	4	1	1	3	2	5	5	4	4	6	3	3	5	7	9	16	7	3	4	4	6	5	5
9	9	6	2	4	6	3	2	2	8	30	19	32	15	11	10	9	6	3	5	5	3	3	3	3	8
10	3	3	4	13	6	4	6	7	12	14	15	14	13	9	4	3	2	2	2	6	4	2	2	2	6
11	2	4	3	2	3	4	3	2	2	1	2	5	3	0	0	0	0	0	0	0	2	2	2	1	2
12	1	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	5	8	5	3	1
13	3	3	2	2	3	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
15	2	1	1	2	2	2	2	2	1	1	2	2	2	3	2	3	2	2	2	2	2	3	3	1	2
16	2	1	1	1	2	1	1	1	2	1	1	1	1	1	1	3	1	2	2	2	3	2	2	1	2
17	1	1	2	0	0	0	1	1	0	1	1	1	0	1	1	0	1	0	1	3	6	5	4	4	1
18	4	2	2	1	2	2	2	3	2	3	2	2	1	1	2	2	2	3	3	4	2	1	1	0	2
19	2	3	2	2	3	2	2	3	1	3	6	1	1	1	6	3	7	11	23	16	11	5	2	2	5
20	1	1	1	2	14	8	5	16	28	61	19	12	15	19	9	13	17	8	11	28	35	18	8	14	15
21	9	10	9	13	37	33	28	21	23	27	26	27	36	40	34	25	23	20	33	33	31	30	30	37	26
22	38	32	18	8	6	10	10	8	14	16	18	9	7	10	8	6	5	4	3	3	2	1	1	1	10
23	1	0	1	2	4	3	2	1	0	1	0	0	2	4	0	0	1	0	1	1	1	2	1	1	1
24	1	1	1	1	1	1	0	1	0	0	0	0	2	3	2	2	6	4	4	3	2	1	5	5	2
25	2	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0
26	1	1	0	0	0	1	1	1	2	1	4	7	6	1	0	0	0	0	2	1	0	0	0	1	1
27	3	0	4	4	4	6	22	47	35	31	34	21	13	15	18	16	13	5	3	4	4	6	4	5	13
28	4	9	10	2	2	6	8	4	2	1	5	12	11	11	11	11	11	11	2	5	5	9	10	6	7
29	5	7	6	4	3	3	2	21	25	17	21	21	15	26	24	24	13	8	6	7	9	11	16	5	12
30	6	1	0	1	1	2	0	1	1	0	0	5	8	9	12	2	13	22	27	26	15	12	12	3	7
31	3	2	1	4	7	1	1	3	6	9	4	6	12	12	14	13	1	0	1	1	1	12	0	6	5

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
4	2	5		2	14	23	33	36	0	-	61	0	-	26	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

MONTH: AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	1	0	0	0	1	1	2	1	6	6	6	5	4	6	8	8	11	9	3	1	5	3	2	1	4
2	1	2	0	0	1	1	4	10	6	8	7	M	3	4	9	16	21	19	5	1	3	3	1	5	6
3	2	2	0	2	0	2	3	4	7	11	11	11	7	7	11	12	11	14	17	20	24	12	19	15	9
4	9	5	5	3	5	3	19	12	12	14	10	12	11	10	17	17	25	31	41	45	36	21	44	35	18
5	3	0	0	1	0	9	9	26	17	20	27	27	23	26	27	57	68	59	57	58	47	42	57	32	29
6	13	1	1	4	10	11	10	6	10	13	13	11	9	9	6	7	12	12	15	11	8	4	5	6	9
7	6	7	4	2	3	2	5	3	8	16	13	11	9	11	13	16	16	16	22	19	25	14	12	16	11
8	16	13	12	5	7	10	11	20	17	14	16	22	18	13	13	21	23	35	32	25	33	32	33	20	19
9	23	17	5	6	14	10	10	9	16	24	24	33	29	23	19	28	15	16	32	26	23	27	24	18	20
10	13	9	26	25	14	9	13	15	20	30	33	48	31	30	17	19	24	35	38	38	17	11	7	7	22
11	8	11	10	10	8	15	15	9	11	18	29	29	22	3	5	5	6	8	9	12	8	9	8	2	11
12	2	0	1	1	0	5	7	15	11	17	35	17	24	30	23	12	20	16	47	34	19	20	16	19	16
13	18	13	6	4	4	4	13	19	27	28	27	26	19	14	16	17	14	13	9	10	11	3	1	0	13
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	6	1	1	1	1	1	1
15	0	0	0	1	1	2	3	1	1	2	7	4	6	7	7	10	11	11	14	10	13	12	14	6	6
16	6	2	0	0	4	1	3	4	8	8	7	7	8	6	9	16	13	13	11	13	17	15	13	11	8
17	9	4	9	2	0	1	8	5	3	8	7	9	6	10	9	13	13	10	16	24	21	26	23	10	10
18	8	3	3	1	3	3	6	9	5	11	14	14	13	10	18	24	20	22	24	29	22	10	15	7	12
19	11	11	5	5	9	6	10	11	12	22	25	23	19	23	34	32	45	47	62	59	50	37	26	21	25
20	2	0	3	6	53	44	22	39	48	50	49	40	48	47	36	58	54	42	64	120	167	76	46	60	49
21	27	25	19	38	83	83	71	48	68	68	78	78	68	56	55	61	59	63	71	45	41	37	30	26	54
22	24	23	20	23	11	3	5	12	25	31	32	22	21	15	20	29	16	16	15	13	5	3	3	5	16
23	1	0	22	15	49	37	27	18	9	9	5	12	26	31	11	12	13	17	13	17	18	19	9	13	17
24	9	6	5	3	3	3	6	23	11	13	11	12	14	16	13	11	20	19	18	17	15	13	20	19	13
25	10	5	4	1	1	2	2	6	7	7	7	4	10	10	4	10	9	4	8	3	1	0	0	6	5
26	2	1	0	1	2	6	7	7	17	14	17	19	28	15	13	14	11	13	24	17	24	9	2	18	12
27	3	0	10	7	10	12	29	32	32	29	26	23	18	26	37	27	22	14	16	28	37	32	26	21	22
28	10	24	33	5	10	22	13	7	5	3	11	19	23	27	29	27	26	22	15	28	23	29	23	18	19
29	9	M	11	4	6	8	2	17	32	34	34	36	42	45	37	38	30	34	23	17	20	36	52	23	26
30	13	7	2	1	1	4	5	16	20	10	15	26	34	45	56	17	51	62	69	85	57	24	26	9	27
31	5	3	0	6	23	4	9	17	20	33	13	12	25	32	53	36	24	19	14	11	17	81	16	40	21

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR				
12	13	17	13	37	52	68	77	0	-	167	1	-	54	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	7	7	10	9	7	5	2	2	14	22	23	21	27	10	11	11	5	2	7	4	3	0	3	17	10
2	18	12	10	12	3	1	4	19	15	11	15	12	13	22	19	15	12	10	8	4	5	2	3	0	10
3	0	0	0	0	3	3	3	3	5	9	7	3	0	1	0	6	10	5	3	1	0	1	0	1	3
4	2	4	3	2	2	3	2	3	6	2	1	1	2	1	1	1	2	2	2	2	1	2	2	1	2
5	0	1	0	1	1	0	2	1	1	1	1	0	0	0	1	1	0	1	0	0	1	1	2	1	1
6	1	0	1	1	3	2	1	4	4	4	4	3	3	4	4	3	2	2	2	2	1	2	2	0	2
7	2	1	0	1	1	1	1	0	1	2	4	2	0	1	2	3	4	4	4	3	4	4	4	3	2
8	2	2	1	1	3	4	3	2	3	3	2	2	2	1	2	1	1	3	3	4	4	5	3	3	3
9	2	1	1	1	1	0	0	1	0	1	0	0	0	1	1	1	1	2	3	3	1	1	1	1	1
10	1	1	0	1	0	1	1	1	1	2	3	1	0	1	1	1	1	0	1	4	3	4	3	4	2
11	2	2	2	3	2	2	2	3	2	1	2	2	2	1	1	1	1	1	1	3	3	2	0	3	2
12	3	3	3	3	3	2	2	3	4	6	4	3	2	2	3	3	3	4	3	2	2	3	3	2	3
13	3	3	2	2	3	2	2	3	3	3	2	1	0	0	0	1	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	1	0	2	1	1	2	2	1	4	3	2	1	1	1	0	2	1
15	1	2	1	1	2	3	7	41	41	31	31	41	44	28	27	18	20	7	3	4	5	5	4	2	15
16	2	1	1	0	0	0	1	1	1	1	3	4	5	5	5	4	4	2	2	2	3	3	1	1	2
17	2	1	1	2	2	4	4	6	4	4	4	3	3	3	4	4	4	4	2	1	3	1	1	1	3
18	1	1	1	1	1	2	4	4	5	5	5	5	5	7	6	5	3	2	1	1	2	3	3	3	3
19	4	4	5	5	5	7	8	9	9	6	4	3	3	4	2	2	1	1	1	1	3	2	2	3	4
20	3	3	3	3	3	2	4	12	9	17	20	25	33	39	30	31	21	21	18	9	21	22	25	18	16
21	16	22	20	12	15	11	13	18	16	12	8	7	6	7	11	9	7	7	7	9	11	9	10	10	11
22	10	11	9	12	13	11	8	10	8	8	6	4	3	3	2	3	1	4	6	5	6	5	4	3	6
23	2	4	7	12	6	6	1	2	1	2	2	1	1	1	1	1	2	3	2	1	0	0	0	0	2
24	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	D	1	1	1	0	1	1	1	1	0
25	3	2	1	2	3	3	2	2	2	2	2	3	3	3	2	3	2	3	4	5	6	3	2	4	3
26	4	4	2	3	4	3	4	5	4	4	5	4	4	3	3	3	4	4	3	3	3	4	2	2	4
27	2	2	3	3	1	3	3	4	5	5	4	M	M	M	4	4	5	5	4	3	3	2	2	3	3
28	3	3	3	2	3	3	2	3	4	4	4	5	6	6	4	5	5	6	5	4	5	5	5	4	4
29	3	2	2	3	4	3	4	4	4	5	5	5	4	3	4	3	3	3	3	4	4	2	2	2	3
30	3	4	4	4	4	4	5	5	5	5	4	3	2	3	4	4	3	2	2	2	2	2	2	0	3

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE	1-HR	24-HR
3	3	4		3	10	16	24	31	0	-	44	0	-	16	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	35	30	43	25	31	23	6	10	36	52	57	56	52	14	21	28	15	14	14	8	11	3	49	48	28
2	43	24	25	21	4	0	9	31	28	20	26	25	21	28	25	28	22	19	20	16	15	6	6	2	19
3	2	1	1	3	33	42	40	32	27	25	21	18	16	18	25	24	52	55	49	29	19	33	15	8	25
4	5	7	7	1	2	6	6	15	25	9	8	10	14	21	15	17	22	19	14	14	15	14	5	1	11
5	5	1	2	2	1	0	1	6	9	16	30	30	34	32	52	40	49	88	60	34	23	5	4	7	22
6	1	2	0	0	3	1	5	13	22	28	19	18	6	23	22	21	24	15	18	13	3	3	1	3	11
7	9	7	3	3	1	5	7	15	32	55	60	36	17	34	34	52	34	24	17	8	7	8	10	16	21
8	6	8	7	10	10	11	12	14	14	9	5	8	8	6	11	3	0	3	5	8	12	4	2	9	8
9	3	3	4	2	2	4	8	22	20	26	18	17	6	14	18	18	23	19	14	24	6	6	4	6	12
10	3	4	1	1	2	6	11	21	25	45	43	28	9	18	21	17	16	19	12	5	8	11	13	16	15
11	5	M	3	3	2	4	10	23	39	24	21	17	9	15	15	23	23	16	14	13	8	6	5	11	13
12	10	10	5	4	5	4	8	17	28	27	29	26	12	16	19	29	30	35	20	12	8	9	9	28	17
13	25	19	10	9	6	5	11	22	37	40	23	16	4	15	12	12	19	20	14	3	13	21	12	18	16
14	12	9	6	8	14	11	13	19	27	25	27	16	10	19	16	22	28	22	20	7	4	9	5	6	15
15	5	4	5	4	10	39	38	43	43	48	52	59	69	62	61	45	61	31	24	14	9	9	12	5	31
16	3	2	1	2	3	3	11	20	19	28	26	24	20	26	28	21	24	16	8	7	10	12	6	10	14
17	7	7	3	3	2	3	7	15	19	22	21	20	17	20	21	16	19	20	13	13	10	9	5	10	13
18	6	5	4	3	3	4	10	17	21	23	22	20	16	20	21	23	17	16	8	6	13	13	12	14	13
19	11	11	11	8	11	13	20	30	48	26	19	20	14	21	15	12	5	4	3	6	11	7	6	12	14
20	11	7	10	7	2	6	15	30	21	33	44	43	52	58	64	65	61	64	77	53	66	68	66	55	41
21	49	50	35	17	18	12	16	30	33	37	35	36	26	30	28	34	29	35	35	27	31	29	28	27	30
22	24	21	13	13	16	14	14	17	16	18	22	25	11	14	12	18	21	23	31	26	21	20	10	4	18
23	1	6	20	34	17	19	2	4	2	0	2	2	1	1	7	2	8	9	8	6	2	2	1	0	7
24	0	0	0	0	0	0	0	0	4	5	8	5	2	8	10	M	3	4	0	0	0	0	0	3	2
25	2	M	3	3	3	2	4	8	16	18	18	12	11	16	23	22	16	17	10	10	11	5	5	7	11
26	8	8	5	2	3	2	11	26	31	37	28	24	23	24	28	40	42	50	52	56	41	51	38	37	28
27	19	14	11	12	11	9	16	33	34	39	M	34	15	16	22	26	39	31	15	16	12	13	25	5	20
28	4	6	4	3	2	1	13	23	32	48	43	52	38	45	51	65	65	78	67	61	54	25	33	30	35
29	26	18	20	18	4	2	8	21	14	21	30	20	22	21	27	27	27	34	30	40	32	24	26	22	22
30	19	9	7	6	4	4	12	21	24	35	21	22	18	20	15	21	18	9	3	22	16	7	4	1	14

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
13	15	18		15	39	52	61	66	0	-	88	2	-	41	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	3	2	0	1	0	1	0	2	1	1	0	0	0	0	1	0	0	1
4	0	0	0	1	0	5	5	3	1	0	1	1	3	0	1	0	3	0	0	0	0	0	0	3	1
5	1	6	1	0	0	2	1	0	0	2	0	0	1	0	1	0	0	0	0	0	1	0	0	3	1
6	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	0	0	1	1	0	1	0	0	0	0
7	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	2	0
8	0	0	0	0	3	0	2	4	1	1	2	2	2	5	1	1	0	0	1	0	0	2	2	0	1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0
10	0	0	0	0	2	0	2	1	2	4	28	30	16	3	6	3	1	0	0	1	3	0	0	0	4
11	1	3	0	0	0	2	4	5	38	4	15	9	6	7	7	5	1	3	4	1	5	4	4	0	5
12	1	9	8	0	4	0	0	1	3	18	16	28	22	3	5	6	3	2	2	5	24	9	0	4	7
13	5	5	19	22	15	20	19	22	23	39	8	8	10	12	4	6	1	2	1	1	3	2	6	0	11
14	5	3	1	0	1	0	4	2	6	9	2	0	9	3	1	7	7	4	3	6	2	0	0	0	3
15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	3	0	2	1	0	0	0	0	0	0	0	0	0	0
17	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0
20	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	M	M	M	M	M	M	M	M	M	M
23	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
24	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2	0	2	1	1	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1	1	0	1	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2	0
30	3	0	0	1	1	0	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1
31	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
3	0	1		0	3	6	16	22	0	-	39	0	-	11	3	93	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JULY

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	13	7	4	7	6	5	5	8	5	7	6	7	6	7	8	10	11	14	12	11	9	9	10	8	8
2	7	4	3	4	5	5	5	9	9	9	9	9	6	7	8	6	8	11	10	9	9	8	11	9	8
3	6	M	10	8	11	11	13	18	14	10	10	10	8	8	11	15	16	13	12	14	13	14	12	10	12
4	9	7	10	10	10	21	18	16	13	14	12	12	14	12	15	15	21	19	22	21	18	15	14	16	15
5	13	23	11	9	12	13	15	12	11	14	11	10	10	11	16	14	14	19	20	17	22	14	16	25	15
6	16	8	13	11	13	9	9	9	10	6	6	11	11	7	5	6	8	14	17	18	19	11	6	6	10
7	4	6	5	6	7	9	10	10	10	11	12	11	7	5	8	7	12	16	19	16	15	9	16	12	10
8	8	7	3	4	12	7	12	16	8	11	8	9	9	9	7	11	10	12	15	12	13	15	10	15	10
9	12	7	7	7	7	7	9	13	15	13	10	9	7	7	10	12	14	12	22	17	9	5	12	11	11
10	6	7	8	6	13	10	13	14	15	19	32	32	19	9	13	13	14	10	11	11	13	5	8	8	13
11	10	13	7	4	4	10	12	15	27	13	21	14	11	13	19	17	14	17	15	15	25	16	15	12	14
12	13	24	21	11	17	22	20	26	26	32	35	49	50	27	30	31	26	21	22	20	46	24	16	18	26
13	27	30	38	37	30	36	38	43	37	49	25	18	19	22	23	22	12	19	16	9	9	9	16	7	25
14	14	11	6	4	7	6	14	10	17	19	14	6	17	13	13	18	22	22	22	21	15	5	9	2	13
15	4	8	8	6	6	7	13	10	7	6	7	10	9	7	18	14	6	12	9	6	11	11	6	5	9
16	8	7	9	6	6	8	10	8	9	9	12	21	11	24	24	20	11	15	17	6	6	8	7	10	11
17	19	M	10	9	6	4	6	9	9	8	8	5	5	11	9	11	7	7	7	9	11	11	5	4	8
18	6	8	8	7	8	9	10	4	10	13	7	6	M	13	17	21	16	12	24	33	31	23	16	13	14
19	10	6	7	6	6	5	11	11	11	6	6	7	6	6	8	6	6	9	11	12	10	10	10	8	8
20	11	7	8	4	6	6	10	13	11	14	12	18	10	8	7	12	17	18	10	9	13	11	7	7	10
21	6	5	12	11	12	12	6	12	10	8	7	7	7	9	7	11	10	8	10	14	6	9	9	7	9
22	10	13	7	6	11	6	9	11	7	7	10	7	6	7	6	7	11	11	10	13	12	14	15	12	10
23	11	6	3	7	6	6	7	11	11	7	6	6	4	9	7	8	8	8	6	5	6	10	17	5	8
24	5	6	5	8	7	4	8	8	12	17	12	8	16	11	16	15	15	13	9	5	6	7	11	15	10
25	24	3	2	4	7	11	9	15	15	14	12	10	11	13	9	9	13	15	15	21	22	12	13	8	12
26	7	7	5	6	6	7	15	17	15	14	11	14	7	8	8	14	9	15	11	20	19	16	19	20	12
27	16	15	6	12	9	15	13	13	13	12	12	10	7	9	8	5	16	19	20	22	15	12	10	11	13
28	15	18	15	9	9	13	11	10	10	14	14	10	12	12	10	14	13	17	24	11	8	14	15	15	13
29	10	6	10	10	10	13	10	12	16	11	6	7	7	6	6	14	17	16	20	13	9	17	14	15	11
30	12	3	3	7	7	7	13	10	14	12	12	12	12	7	9	11	13	16	12	10	10	10	8	6	10
31	7	M	5	6	7	9	7	9	7	9	8	6	6	6	6	6	7	8	5	6	5	4	4	3	6

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
10	10	12		10	19	23	31	37	2	-	50	6	-	26	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	2	0	0	0	0	1	0	0
4	0	0	0	0	0	0	0	1	1	1	0	7	8	12	12	7	2	2	0	3	4	17	14	22	5
5	19	32	34	46	53	27	10	7	33	32	25	4	9	8	6	8	11	10	9	4	3	5	4	9	17
6	49	29	14	12	12	9	3	0	2	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
7	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	3	1	0	3	1	16	3	3	5	16	18	11	3	0	0	1	3	1	4
9	0	0	10	11	12	5	0	0	1	10	M	M	M	M	M	M	M	0	0	0	0	1	1	18	4
10	11	10	5	11	24	3	3	4	16	22	15	13	8	3	1	1	0	0	0	3	0	0	0	0	6
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	1	0	0
13	0	0	0	0	0	0	0	0	0	0	M	M	8	9	9	9	9	9	9	9	9	9	9	9	4
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2	0	1	1	0	0
16	1	0	0	0	1	0	1	0	1	2	0	1	0	0	0	1	2	1	1	7	2	5	3	10	2
17	5	2	4	1	2	2	1	1	1	2	2	3	2	5	3	0	6	5	4	11	8	6	10	7	4
18	4	0	2	0	1	1	3	1	1	3	3	6	0	1	1	0	6	4	8	4	0	0	0	0	2
19	4	5	4	2	2	1	3	1	1	0	1	1	2	2	3	5	1	17	24	17	70	54	22	21	11
20	25	30	25	13	1	4	9	6	55	96	79	21	15	15	6	12	14	16	18	20	16	13	12	9	22
21	14	15	14	6	3	3	15	24	23	27	22	28	36	38	39	36	44	50	50	55	52	42	59	89	33
22	43	13	12	5	16	13	15	7	15	13	12	1	4	8	14	11	4	1	2	3	4	1	7	2	9
23	0	0	1	5	2	1	0	0	0	3	1	0	0	0	5	1	1	2	3	2	1	1	4	7	2
24	2	1	1	1	4	0	0	0	0	0	0	2	2	2	1	1	3	2	0	0	0	0	2	0	1
25	0	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	9	12	1
27	8	10	10	13	12	12	3	8	11	12	9	22	19	25	16	5	6	2	0	2	4	2	7	5	9
28	6	4	5	4	4	0	9	14	4	2	23	8	10	11	4	2	2	1	0	2	3	8	1	0	5
29	0	4	10	19	13	7	3	1	7	27	46	33	41	31	20	19	7	4	2	6	18	12	15	17	15
30	8	2	1	1	2	3	0	1	0	1	4	9	16	3	10	13	24	23	18	13	9	11	24	17	9
31	12	11	8	6	5	0	2	11	9	12	9	4	3	5	8	6	0	0	0	1	0	1	8	22	6

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
5	1	6		1	16	25	45	54	0	-	96	0	-	33	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	4	4	4	5	5	3	5	6	6	6	5	5	4	3	4	3	3	6	5	3	5	3	4	8	5
2	4	5	4	5	3	2	3	3	5	6	7	3	3	2	6	9	12	16	11	10	5	4	9	10	6
3	9	7	5	6	4	4	7	11	9	12	10	8	7	6	11	8	9	10	11	17	15	14	19	17	10
4	21	7	7	6	8	9	15	15	16	12	9	20	20	21	18	16	20	22	24	28	35	39	28	33	19
5	35	44	51	53	52	45	30	22	38	37	31	20	29	23	23	29	30	35	30	28	30	23	33	16	33
6	45	26	16	16	24	21	13	8	16	15	9	8	7	8	10	13	11	16	14	16	14	12	14	12	15
7	13	9	5	6	7	7	15	12	14	10	9	9	8	10	7	8	9	6	12	14	13	12	18	13	10
8	15	13	8	5	9	8	17	17	15	14	10	13	9	14	15	24	23	22	20	15	16	14	19	14	15
9	8	12	26	26	28	21	12	14	18	29	26	M	27	27	31	M	M	19	18	14	14	21	26	30	21
10	30	27	29	34	36	20	22	21	26	27	23	27	23	21	21	22	21	24	23	25	19	11	12	13	23
11	15	13	10	9	9	8	8	13	12	11	12	13	11	9	12	12	14	17	20	18	17	18	17	13	13
12	9	6	6	3	2	4	4	8	9	8	11	7	8	8	11	9	12	13	12	17	21	18	9	7	9
13	8	6	5	3	4	4	4	5	5	5	4	5	8	6	3	3	4	3	4	3	2	2	3	3	4
14	2	M	1	1	1	1	2	2	2	2	2	2	3	3	5	5	5	5	6	6	4	3	4	3	3
15	4	3	5	5	7	7	5	5	7	8	7	6	6	7	9	8	13	8	12	12	9	12	15	8	8
16	9	8	5	6	8	10	9	10	11	15	10	8	8	8	6	14	14	12	10	21	14	20	16	25	12
17	19	16	15	9	15	11	13	12	11	14	14	14	11	16	14	15	17	20	18	28	28	27	28	24	17
18	23	10	16	10	13	10	17	13	12	16	14	15	11	10	13	13	30	29	35	33	23	17	14	11	17
19	22	18	15	13	15	11	19	17	15	16	13	17	12	14	16	17	14	32	44	42	67	58	28	36	24
20	44	53	45	39	19	33	41	36	43	55	54	42	43	35	21	29	28	34	31	31	34	32	24	18	36
21	18	14	10	10	12	11	38	70	73	84	81	89	83	63	M	80	84	106	113	80	76	83	76	129	64
22	77	19	21	19	30	27	31	23	31	26	26	16	15	17	31	28	22	16	15	17	21	11	23	13	24
23	9	6	6	14	10	8	6	8	10	15	10	6	7	11	14	5	6	11	15	12	7	9	14	17	10
24	13	10	8	11	13	4	10	7	11	15	8	8	10	11	10	11	17	20	17	17	14	13	21	15	12
25	21	19	18	9	6	8	11	17	12	9	18	13	9	9	11	14	16	21	24	18	14	15	21	12	14
26	8	4	6	7	5	7	8	8	12	6	7	10	7	7	5	10	6	13	18	11	9	11	19	33	10
27	24	29	24	31	30	24	11	20	21	18	14	20	19	18	17	19	20	17	13	15	11	11	19	19	19
28	26	M	16	14	13	8	20	22	13	13	24	15	18	18	18	25	21	17	17	12	12	21	20	7	17
29	10	12	18	26	16	14	13	16	22	33	39	36	38	40	38	38	26	25	15	18	26	25	23	27	25
30	20	10	11	6	10	10	13	13	25	22	64	56	60	50	78	78	88	84	67	45	40	48	62	32	41
31	26	28	26	18	35	32	23	37	28	22	30	30	25	34	36	36	44	46	57	73	42	52	83	87	40

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE OBJECTIVE	1-HR	24-HR	
14	14	19	14	35	52	79	84	1	-	129	3	-	64	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	27	12	6	5	17	8	5	17	26	16	37	36	32	13	14	6	4	3	5	3	1	0	3	1	12
2	3	5	9	9	5	0	0	0	0	2	0	0	1	11	9	10	3	4	0	0	0	1	1	9	3
3	4	0	2	5	15	10	14	18	11	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	1	0	0	2	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	1	1	1	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	D	D	D	D	D	0	0	0	0	0	0	0	0
10	3	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	8	7	7	3	1	0	1
11	2	4	3	2	2	1	2	0	1	0	0	0	0	0	0	0	0	2	8	3	1	4	1	4	2
12	0	0	2	2	0	0	0	3	1	3	2	1	1	1	0	0	0	0	1	0	1	0	0	1	1
13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	2	1	0	0	0	1	0	1	4	1
15	5	5	3	2	2	2	2	0	24	44	46	24	17	10	3	4	5	5	7	2	3	4	2	0	9
16	1	0	0	0	0	0	0	0	0	0	1	2	3	3	3	1	0	1	0	0	1	0	0	0	1
17	0	0	0	0	0	0	1	2	2	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	1	2	3	2	2	1	2	2	1	M	0	0	0	0	0	0	1	2	1
19	0	2	3	3	6	5	7	8	6	4	3	2	1	1	0	0	0	0	0	0	1	1	2	0	2
20	0	0	0	0	0	0	0	3	6	22	34	26	35	39	35	36	21	10	5	17	13	17	13	11	14
21	15	16	18	14	11	8	6	5	9	5	3	3	2	3	4	4	5	4	4	6	4	5	4	4	7
22	4	4	4	3	4	4	3	3	3	3	2	1	1	0	0	0	0	1	3	3	5	2	1	0	2
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	1	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	2	4	1	2	0	0	0	1
26	0	1	0	0	1	0	0	2	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0
27	0	0	1	1	0	1	1	3	2	2	0	0	0	0	1	2	2	0	0	0	0	0	0	0	1
28	0	0	0	1	0	0	1	1	0	2	1	1	0	0	0	0	1	0	0	1	2	4	4	1	1
29	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
3	0	2		0	5	11	23	35	0	-	46	0	-	14	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	79	56	55	59	67	58	53	52	44	41	48	50	56	30	29	24	20	20	16	12	18	33	52	43	42
2	37	35	31	35	25	17	15	23	20	21	12	9	8	20	16	19	15	21	16	11	13	6	24	49	21
3	53	43	34	36	41	43	38	34	25	14	10	6	5	7	11	14	17	23	11	25	21	24	11	6	23
4	16	20	14	9	11	12	14	15	18	5	13	13	9	8	5	6	11	6	4	5	7	9	9	8	10
5	7	7	4	7	6	4	11	12	8	6	11	5	6	17	17	9	16	8	7	8	9	7	7	6	9
6	5	5	2	4	5	5	9	11	8	9	9	7	6	6	8	9	9	10	11	9	12	14	13	9	8
7	11	9	5	6	7	7	8	10	13	11	13	12	10	12	12	15	15	23	15	11	8	8	8	7	11
8	7	5	5	5	7	8	5	6	7	7	9	10	6	10	6	10	15	25	17	17	13	14	12	6	10
9	6	4	3	4	4	4	5	5	5	6	5	7	6	8	10	D	D	14	10	6	9	11	12	9	7
10	14	5	3	4	3	4	6	9	15	12	11	15	15	12	12	13	16	15	20	24	13	8	11	7	11
11	9	M	6	5	3	5	6	8	12	9	10	11	9	12	11	13	15	21	30	31	23	16	10	8	12
12	6	5	5	5	5	3	3	9	10	9	7	7	9	10	11	11	16	19	20	14	14	15	7	8	10
13	11	12	7	6	6	8	11	14	12	9	7	8	6	9	8	8	11	9	12	14	5	7	8	9	9
14	7	5	4	6	5	5	5	8	10	12	16	19	13	11	13	15	18	18	20	11	14	9	15	18	12
15	16	15	11	10	7	8	6	8	27	38	41	29	25	21	14	12	25	28	23	15	10	12	10	6	17
16	6	4	4	5	5	4	7	7	6	7	7	8	8	9	11	10	9	14	10	10	10	10	6	5	8
17	4	3	2	2	3	3	6	9	7	8	7	7	8	7	8	8	9	11	11	11	7	6	4	5	7
18	4	3	2	2	2	4	7	11	10	10	7	8	8	9	10	M	10	9	9	7	9	9	9	18	8
19	6	6	6	5	11	9	12	16	19	14	10	8	7	9	8	8	6	8	9	11	11	9	12	10	10
20	10	10	8	7	6	5	6	21	32	48	57	56	85	84	85	80	55	45	43	44	41	50	63	65	42
21	87	91	80	49	27	18	17	20	38	33	29	28	20	33	32	31	15	17	24	39	26	32	30	31	35
22	26	19	16	15	15	14	15	21	24	26	27	37	32	22	25	26	25	25	30	29	31	20	12	8	23
23	6	6	4	4	3	3	3	7	6	8	9	8	6	7	12	20	18	18	19	13	12	10	10	14	9
24	9	5	2	3	5	3	6	12	9	7	7	8	7	7	6	7	7	12	9	6	10	7	7	8	7
25	7	M	6	5	6	7	8	10	8	8	7	8	8	9	12	18	15	25	18	10	12	7	8	4	10
26	3	6	4	4	5	4	6	12	10	8	11	10	8	12	9	10	13	8	9	16	13	21	16	17	10
27	16	14	14	13	10	9	10	17	14	17	15	10	9	15	13	15	17	17	12	9	11	7	7	7	12
28	8	6	6	8	7	8	11	12	14	14	12	19	17	16	14	17	20	29	21	10	10	12	12	13	13
29	18	14	12	9	8	8	11	9	10	11	11	14	12	11	12	12	12	14	16	14	13	11	12	12	12
30	10	11	10	9	8	8	10	11	10	8	9	8	7	11	11	12	11	12	9	8	7	7	8	7	9

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
11	10	14		10	29	42	56	77	2	-	91	7	-	42	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	4	2	0	1	1	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	2	0	1
2	0	1	0	0	1	1	2	5	7	7	4	9	6	4	4	6	3	2	0	1	1	1	2	2	3
3	1	2	2	5	10	8	7	12	10	7	14	8	8	7	7	5	4	12	7	4	3	3	7	2	6
4	3	8	7	9	14	14	13	17	14	14	13	13	11	15	5	11	6	4	1	6	8	5	6	10	9
5	13	16	16	15	8	15	12	13	8	8	8	9	6	4	9	12	8	4	5	10	5	11	17	23	11
6	14	15	13	10	19	8	4	10	7	8	4	10	11	6	4	0	1	8	18	13	9	10	1	6	9
7	5	4	4	3	8	3	7	5	4	7	9	5	3	2	4	3	5	4	7	9	10	9	2	7	5
8	4	4	4	12	8	6	16	18	4	8	6	3	10	6	4	8	4	10	9	8	5	4	6	3	7
9	3	2	3	3	4	4	4	19	10	11	24	5	9	11	21	9	4	12	7	5	5	1	0	2	7
10	2	1	3	3	6	13	11	11	17	16	25	5	5	4	1	13	10	4	1	2	4	1	2	1	7
11	1	1	3	1	2	2	6	72	35	9	9	6	19	16	11	7	9	6	15	22	9	14	9	13	12
12	4	17	14	3	10	6	7	9	19	25	19	25	14	9	6	7	4	6	9	4	6	5	4	6	10
13	2	1	6	9	12	11	1	5	11	19	9	6	7	3	4	1	1	0	0	0	1	1	0	2	5
14	2	4	1	1	0	0	2	2	3	6	4	0	3	1	5	2	1	1	10	10	0	0	1	0	2
15	0	2	2	2	2	5	8	3	2	5	10	2	0	0	2	3	0	7	5	0	1	2	14	1	3
16	0	1	0	0	0	1	1	2	3	3	M	M	M	31	14	12	M	3	1	1	0	0	1	1	4
17	2	1	2	1	0	0	0	1	2	1	2	1	0	1	1	0	0	0	0	3	0	0	0	0	1
18	0	3	4	0	1	6	5	2	2	1	1	1	1	1	2	2	6	19	14	8	9	9	4	3	4
19	2	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	1	0	1	5	0	0	2	1	1	0	0	1	0	0	0	1
21	0	0	1	1	0	2	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1
22	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	1	0	1	1	0	1	1	5	1	0	0	0	1	1	3	10	1	1	1	0	0	0	1
25	3	0	0	0	0	1	1	1	2	3	5	8	1	1	1	0	5	4	5	2	2	1	3	0	2
26	5	2	3	4	2	4	3	2	2	3	3	4	2	2	2	M	M	3	5	4	3	5	6	6	3
27	7	4	0	2	3	2	6	5	6	8	8	8	12	5	4	5	3	7	5	3	2	1	4	7	5
28	7	4	5	6	10	4	5	5	5	10	8	7	4	1	2	1	2	2	1	2	0	1	0	2	4
29	1	0	1	1	1	1	1	0	1	3	2	15	8	2	18	15	6	5	5	4	4	3	5	2	4
30	4	2	2	2	2	1	2	31	70	54	26	21	31	14	13	10	3	1	1	1	0	1	1	1	12
31	0	2	1	0	0	1	1	1	0	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	ABOVE OBJECTIVE	ABOVE OBJECTIVE	
4	2	5	2	12	15	21	26	0	-	72	0	-	12	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	6	2	0	0	0	0	0	2	0	2	1	2	1	2	1	4	7	10	7	9	7	6	8	7	4
2	2	0	0	0	0	3	13	21	22	24	18	20	10	11	12	16	15	14	15	20	15	10	16	13	12
3	7	M	2	5	11	13	23	24	23	11	10	5	12	10	12	6	11	17	25	26	17	15	21	7	14
4	10	14	15	12	18	22	23	15	12	10	8	7	6	12	4	6	10	6	8	11	27	5	11	19	12
5	12	18	17	21	9	21	25	17	11	6	2	6	8	3	7	9	9	7	14	19	18	27	35	37	15
6	28	15	16	17	16	10	23	24	12	12	5	13	9	6	2	4	5	13	22	22	19	13	7	9	13
7	6	4	3	4	12	13	15	21	23	10	12	5	0	1	2	6	13	22	22	24	25	25	20	23	13
8	18	9	8	11	11	18	27	27	11	10	5	4	10	7	6	6	5	16	17	19	22	19	28	18	14
9	15	9	9	7	9	15	33	38	35	23	16	2	7	8	19	11	14	25	37	24	21	15	29	25	19
10	7	6	5	7	14	19	34	30	24	26	27	5	2	4	5	12	13	17	21	19	24	15	11	8	15
11	3	1	2	0	0	9	26	29	26	11	3	5	15	9	6	2	11	9	12	23	8	17	26	28	12
12	12	22	12	4	22	18	19	18	23	30	29	43	36	19	8	17	17	14	25	14	20	21	19	23	20
13	22	16	18	19	24	25	21	26	29	45	39	36	35	18	17	14	10	18	18	15	19	12	5	8	21
14	8	7	2	2	2	2	6	9	14	17	10	9	6	3	6	8	9	11	21	22	17	19	29	15	11
15	14	18	9	9	7	19	30	27	26	24	24	19	15	15	21	23	30	31	27	20	31	31	33	27	22
16	7	3	1	0	0	6	12	15	21	17	M	M	M	7	2	M	M	39	35	39	28	33	35	16	17
17	12	M	8	6	5	4	12	15	15	11	13	13	8	12	9	15	9	11	11	25	13	10	5	9	11
18	6	13	16	7	10	24	33	38	29	31	25	19	16	13	18	21	18	30	62	48	30	27	22	17	24
19	14	7	6	5	5	8	17	20	16	16	13	12	20	20	17	10	16	18	16	20	13	9	11	9	13
20	8	6	5	3	3	5	9	16	19	16	18	22	22	14	19	27	23	22	19	15	13	8	10	10	14
21	8	6	7	6	5	8	8	11	9	9	9	7	7	6	6	9	10	9	9	11	10	9	9	12	8
22	8	7	4	3	5	5	9	12	12	9	11	11	8	10	11	8	12	15	14	12	10	8	9	8	9
23	8	7	2	4	4	4	10	11	14	11	7	10	8	11	8	8	13	16	16	12	16	10	12	9	10
24	9	4	3	3	6	5	6	11	17	32	21	17	17	14	19	20	24	34	31	41	43	18	16	10	18
25	17	8	4	3	6	11	13	16	38	42	34	33	24	23	29	17	36	38	36	31	26	23	25	14	23
26	24	12	14	18	13	18	23	27	27	37	23	18	12	11	15	M	M	21	37	37	33	38	35	30	24
27	29	16	9	14	12	18	32	36	35	32	30	26	27	22	28	15	16	30	32	27	27	15	23	32	24
28	25	21	19	22	28	18	28	22	20	22	25	18	12	10	12	11	15	18	21	17	23	32	33	17	20
29	17	6	6	5	6	5	13	15	20	17	7	20	8	5	18	18	18	24	27	24	20	22	20	20	15
30	27	20	19	19	18	18	33	35	45	41	30	34	30	25	27	27	36	27	31	26	26	23	24	12	27
31	6	M	4	4	2	5	8	10	8	9	7	7	5	7	7	6	6	9	10	7	7	5	3	4	6

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
13	14	15		14	29	34	38	41	0	-	62	4	-	27	2	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	1	0	0	0	2	1	0	1	3	2	4	4	3	10	3	3	4	2	1	1	1	1	1	2
4	0	1	2	1	3	3	10	6	9	8	3	4	22	6	21	11	50	52	12	11	8	13	14	12	12
5	18	32	19	16	26	32	8	14	13	19	28	45	19	11	11	15	40	33	16	15	13	26	21	10	21
6	10	9	5	8	9	11	8	6	24	28	6	4	2	2	1	2	2	1	2	1	1	2	2	1	6
7	1	2	2	0	1	0	2	2	2	3	1	2	2	3	3	2	2	4	2	0	0	0	2	5	2
8	6	6	8	3	4	7	6	9	9	8	7	5	12	15	10	9	12	10	12	6	11	12	23	7	9
9	5	9	9	12	13	15	8	8	13	17	34	21	12	10	13	13	6	3	8	5	5	8	5	6	11
10	6	11	6	19	6	5	10	11	23	30	16	42	16	13	7	9	3	2	13	15	8	3	2	2	12
11	3	5	4	3	4	4	4	3	4	20	32	28	4	1	1	1	0	0	1	1	2	3	3	2	6
12	2	1	0	0	0	0	1	8	2	4	25	11	13	4	8	2	8	4	12	3	4	6	5	4	5
13	4	3	2	2	3	3	3	2	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
15	1	1	2	6	2	3	3	2	2	2	2	2	3	2	3	4	2	3	4	6	2	6	9	4	3
16	4	2	2	2	6	4	4	2	3	3	3	7	7	4	3	7	5	7	5	9	7	7	8	6	5
17	6	4	8	1	2	2	3	6	3	3	3	2	6	5	1	4	3	3	10	13	10	16	10	5	5
18	8	7	5	5	7	4	6	8	3	8	5	6	4	2	2	7	8	12	11	7	6	4	6	2	6
19	7	9	11	9	10	9	7	8	7	11	20	2	2	7	21	17	33	44	38	37	36	19	8	10	16
20	14	3	6	4	10	12	16	46	111	46	18	20	23	16	16	19	14	15	14	20	33	33	35	22	24
21	19	11	28	28	18	20	24	31	42	36	38	39	53	46	41	32	54	37	46	50	43	32	31	39	35
22	50	38	16	10	18	17	14	9	16	16	17	7	7	13	14	7	5	8	4	4	1	1	2	4	12
23	2	1	2	3	4	8	5	2	1	4	3	2	2	5	1	1	5	0	8	4	4	8	7	7	4
24	8	6	4	3	5	4	3	2	1	1	4	3	5	7	3	3	8	6	9	10	4	3	6	9	5
25	6	4	3	3	3	5	2	4	2	2	2	2	1	1	1	1	1	2	2	1	0	0	0	1	2
26	2	1	0	0	0	0	29	41	61	84	65	5	4	16	1	3	5	18	8	2	1	1	1	8	15
27	18	7	7	8	13	10	15	28	49	61	44	22	29	17	22	14	14	9	5	9	6	5	8	11	18
28	6	7	4	4	3	7	29	10	5	3	24	22	10	12	9	11	7	7	4	8	4	11	14	6	9
29	16	12	15	6	6	8	9	20	18	20	45	22	18	35	31	18	9	8	6	8	13	24	23	17	17
30	17	3	3	3	1	4	1	0	1	0	8	8	14	11	25	25	29	21	26	42	21	15	19	9	13
31	7	8	7	9	9	1	3	9	12	15	6	6	68	56	52	16	1	0	1	0	2	5	14	16	13

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE	1-HR	24-HR
6	5	9		5	24	36	46	54	0	-	111	0	-	35	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	3	1	1	1	2	2	6	6	6	7	6	6	4	3	4	5	8	10	11	6	5	4	2	4	5
2	3	4	2	2	1	2	5	8	10	10	9	7	5	3	5	14	10	14	14	9	7	5	6	8	7
3	9	7	2	3	3	14	14	15	20	26	18	26	19	22	26	19	21	25	24	21	19	20	19	21	17
4	17	14	13	12	12	15	34	28	25	16	5	3	19	5	14	17	42	48	33	49	57	58	58	58	27
5	53	51	42	35	35	35	20	37	27	35	36	36	24	18	20	27	48	45	50	61	62	60	54	44	40
6	40	24	22	11	12	20	30	26	33	23	12	12	13	14	12	17	19	24	20	20	16	13	14	14	19
7	12	11	8	3	4	6	13	12	14	21	16	16	13	16	15	17	19	25	27	27	19	16	17	23	15
8	23	17	17	10	9	19	29	28	27	18	13	6	8	15	7	8	11	11	17	17	22	20	24	23	17
9	15	19	14	18	22	26	24	24	25	27	37	30	25	26	31	26	17	22	47	31	28	26	23	27	25
10	23	18	13	23	13	15	22	24	28	27	17	40	20	17	13	18	8	8	27	40	26	14	13	14	20
11	17	12	10	9	8	15	24	16	15	37	35	29	14	13	12	12	9	13	13	18	14	15	15	11	16
12	8	4	3	3	1	8	20	40	17	23	39	27	28	21	23	19	21	29	36	48	26	24	19	13	21
13	13	11	7	5	5	6	14	24	27	22	22	20	16	12	9	10	8	8	8	7	7	3	2	2	11
14	1	M	0	0	0	0	0	1	1	1	0	1	1	6	10	10	14	13	16	17	13	11	9	4	6
15	7	6	3	7	4	8	9	11	15	11	10	8	8	6	10	11	11	12	12	17	9	12	17	9	10
16	7	2	1	2	8	6	9	8	11	11	9	15	16	10	12	21	18	22	18	21	18	20	19	18	13
17	15	11	12	4	4	7	15	14	11	15	12	12	9	16	15	10	15	16	17	37	30	29	42	23	16
18	22	13	13	8	9	9	14	18	16	20	12	14	11	5	10	21	20	29	39	44	34	27	31	18	19
19	35	31	26	22	27	31	32	22	31	32	33	33	40	32	40	35	46	49	60	68	60	48	31	28	37
20	22	5	13	5	29	46	51	56	58	48	37	35	36	29	25	26	21	42	40	54	110	111	78	42	42
21	58	37	51	33	40	53	59	69	86	92	105	95	93	67	72	96	144	110	111	85	89	64	54	52	76
22	84	45	23	29	24	43	49	32	47	47	47	44	40	27	20	26	28	33	28	20	10	15	10	8	32
23	4	1	8	11	39	46	49	12	10	12	11	14	7	21	6	5	12	10	19	14	18	17	18	16	16
24	16	11	5	4	5	6	15	26	18	13	22	7	10	10	6	12	13	15	25	33	20	13	22	29	15
25	22	16	12	7	7	11	8	14	17	13	14	12	9	9	7	10	12	19	15	13	9	6	8	16	12
26	11	8	2	2	4	11	28	29	41	41	36	12	4	12	2	9	18	30	31	30	31	30	23	27	20
27	31	17	18	15	21	19	22	29	34	26	24	17	21	10	15	16	14	16	9	11	15	36	30	28	21
28	17	M	14	11	8	15	24	19	12	5	21	19	12	16	13	15	15	23	16	28	27	28	29	12	17
29	23	19	19	6	8	14	19	34	30	30	35	34	36	36	34	29	22	25	29	28	27	55	59	45	29
30	33	10	9	6	4	14	39	44	40	60	72	59	58	64	82	84	95	99	117	133	96	67	54	25	57
31	16	21	15	21	36	12	35	46	43	47	31	28	52	50	51	44	30	27	34	47	47	55	80	84	40

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE	1-HR	24-HR
17	17	23		17	47	60	90	103	0	-	144	5	-	76	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	9	9	6	15	18	9	8	10	16	38	57	73	31	17	16	8	4	2	9	12	5	0	4	17	16
2	19	11	45	22	5	4	4	8	26	23	43	16	24	34	26	17	17	13	7	12	5	2	2	1	16
3	3	3	10	11	7	5	12	12	27	27	5	5	20	21	4	5	15	12	13	5	21	3	2	1	10
4	0	5	4	2	3	3	2	3	15	2	3	2	7	2	0	0	0	0	0	0	0	1	0	1	2
5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	2	4	0	0	0	0	0	0
6	0	0	0	1	2	2	2	3	4	3	3	2	2	2	2	2	1	1	1	1	0	1	1	1	2
7	1	1	0	0	1	1	0	0	1	1	4	1	0	0	2	3	4	4	4	3	4	3	3	2	2
8	1	1	1	1	2	3	2	2	2	3	2	2	1	1	1	1	0	2	3	4	4	5	4	3	2
9	2	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	2	2	3	2	1	1	1	1
10	1	1	0	1	0	0	0	1	3	1	1	0	0	0	1	M	M	0	2	4	5	2	2	3	1
11	2	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	2	3	4	5	6	1	2	2
12	5	2	2	2	2	2	1	2	2	5	3	2	2	1	2	2	2	3	3	2	2	1	1	3	2
13	3	3	2	2	2	2	2	2	3	3	1	1	0	1	1	0	0	0	0	0	0	0	0	1	1
14	0	0	0	0	0	0	1	1	1	1	9	8	8	4	2	2	5	4	2	2	2	3	1	8	3
15	4	2	2	7	3	7	10	40	43	60	48	57	58	30	50	28	25	3	2	4	5	4	3	1	21
16	1	1	0	0	0	0	1	2	1	1	3	4	4	4	5	3	4	2	1	1	2	2	1	1	2
17	2	1	2	2	2	4	4	4	5	4	4	4	3	3	4	4	3	3	2	2	2	1	1	1	3
18	0	0	0	0	0	1	3	4	4	5	4	4	4	6	6	4	3	1	0	0	1	2	2	3	2
19	3	4	4	5	5	7	8	8	8	5	3	2	2	3	2	1	0	0	0	1	2	2	2	2	3
20	2	3	3	3	2	2	15	14	8	13	29	27	43	45	40	39	28	30	17	23	19	18	17	19	19
21	28	37	20	15	17	16	17	14	14	17	13	9	11	9	9	7	8	7	8	14	19	17	19	13	15
22	14	12	11	9	8	9	11	9	7	7	5	5	3	2	2	3	2	7	7	6	7	4	3	3	7
23	0	1	12	16	21	10	1	1	1	1	1	1	0	1	1	5	5	4	7	2	2	0	0	0	4
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0
25	2	1	1	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	3	4	4	3	2	3	2
26	2	3	2	2	3	2	3	4	4	4	3	3	3	2	2	2	3	2	2	2	2	2	2	2	3
27	2	2	2	4	3	3	7	6	6	4	3	2	2	2	3	4	3	4	3	2	2	2	2	2	3
28	2	2	3	3	3	3	3	3	4	4	5	6	5	4	3	4	4	5	5	3	4	3	4	3	4
29	3	3	3	3	4	4	4	4	5	4	4	4	4	3	2	2	2	3	3	3	4	2	2	2	3
30	3	4	4	5	4	4	5	5	4	4	4	2	2	2	3	3	2	0	1	1	1	1	2	2	3

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
3	2	5		2	13	21	39	45	0	-	73	0	-	21	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	51	43	38	44	57	39	41	54	48	59	69	67	32	21	16	12	9	14	25	28	16	43	49	48	38
2	47	37	40	30	11	7	20	39	36	24	30	19	21	27	23	18	19	20	22	25	15	16	18	25	25
3	30	27	28	31	34	36	42	46	39	21	12	23	32	32	37	29	45	44	51	52	47	44	33	35	35
4	19	15	12	4	7	12	22	23	39	20	27	26	24	17	14	14	13	15	15	24	14	20	12	9	17
5	6	5	1	2	2	2	10	17	20	17	16	28	38	49	36	68	63	71	86	75	36	18	16	22	29
6	10	2	1	1	2	3	16	21	22	22	19	14	14	13	16	16	22	25	31	33	32	19	25	24	17
7	16	9	6	5	3	5	11	17	25	27	33	23	11	21	23	27	21	30	41	43	29	16	19	24	20
8	21	15	12	14	14	16	19	26	26	20	16	17	16	17	21	17	20	23	21	31	26	21	17	26	20
9	19	13	12	10	10	12	20	32	25	22	20	19	17	18	22	30	30	33	37	38	26	18	21	21	22
10	19	16	13	12	12	17	33	47	40	34	35	20	20	22	23	M	M	22	23	24	27	26	26	18	24
11	8	4	2	2	1	2	14	29	45	21	14	12	12	13	18	17	19	20	27	23	18	16	13	14	15
12	18	5	0	1	0	1	13	17	19	20	13	15	10	8	10	16	19	24	26	20	12	12	13	25	13
13	27	24	10	7	4	3	15	30	31	27	13	8	6	12	9	11	12	10	14	10	17	13	7	7	14
14	1	0	0	0	2	2	9	15	19	15	17	14	14	9	9	18	18	16	18	10	8	20	10	35	12
15	17	11	8	20	13	25	30	26	31	35	38	48	54	29	43	37	29	29	33	27	11	14	13	3	26
16	3	0	0	0	0	0	2	7	9	9	6	7	11	7	8	8	10	9	10	9	10	6	2	3	6
17	0	0	0	0	0	0	3	9	11	8	9	11	4	9	8	13	10	18	16	14	10	4	2	4	7
18	1	0	0	0	0	0	6	13	15	12	10	13	12	12	17	16	13	9	7	7	9	12	11	7	8
19	3	1	1	0	2	3	15	19	32	13	7	9	6	5	7	8	6	7	3	4	10	5	4	18	8
20	9	4	11	13	6	2	30	35	22	30	46	43	71	76	71	66	57	65	51	86	56	74	56	83	44
21	81	78	65	45	38	23	35	49	49	56	47	38	33	32	31	30	40	32	43	51	61	45	48	39	45
22	40	25	20	19	17	19	25	24	30	29	32	38	24	24	22	21	18	31	31	25	26	13	7	11	24
23	5	5	24	32	42	24	6	10	18	9	9	8	14	16	24	29	24	53	34	27	18	17	11	20	
24	6	2	0	0	0	1	7	14	22	13	12	12	10	7	7	8	7	10	11	10	8	5	6	11	8
25	4	M	3	2	1	2	8	11	16	14	11	13	13	12	13	20	21	24	24	36	23	13	11	12	13
26	8	7	3	1	2	3	14	38	28	32	23	23	20	20	22	31	47	53	66	78	56	50	44	40	30
27	26	19	16	16	19	22	40	45	41	41	38	28	22	20	26	32	39	36	37	24	21	21	25	8	28
28	3	4	4	1	1	5	13	20	24	35	38	45	39	41	31	46	44	77	82	56	47	32	24	38	31
29	34	30	21	15	6	2	7	8	9	12	15	16	16	15	15	17	15	21	26	32	29	24	26	22	18
30	13	7	4	4	3	3	10	17	18	21	15	12	13	15	10	12	13	12	13	11	11	8	6	4	11

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
16	17	21		17	43	51	69	77	0	-	86	6	-	45	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL
POLLUTANT : SULPHUR DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	1	4	3	5	2	6	4	2	1	3	1	0	0	0	0	0	1	1	1
3	0	0	2	2	5	7	6	9	6	2	13	6	5	4	6	3	3	6	10	3	1	1	6	1	4
4	1	5	5	8	11	5	4	11	7	8	13	15	7	5	8	4	5	3	1	2	5	2	4	7	6
5	14	12	11	13	8	11	7	6	9	4	5	7	2	3	4	12	5	5	2	6	2	17	16	32	9
6	15	10	12	10	23	10	3	6	5	9	3	7	9	2	1	0	1	5	7	7	5	3	0	4	7
7	3	2	1	1	2	1	7	3	3	6	7	2	1	1	3	2	1	5	6	4	6	7	1	5	3
8	3	2	3	7	7	3	13	16	3	3	7	3	8	6	3	4	1	9	4	7	4	6	9	4	6
9	3	2	3	3	5	4	4	7	6	5	9	2	7	7	16	13	4	8	7	5	3	0	0	1	5
10	0	0	2	3	7	14	8	9	21	10	23	7	4	3	2	7	18	3	0	1	4	1	2	1	6
11	1	2	4	2	2	4	4	76	29	8	16	9	15	14	10	5	10	7	15	18	9	9	6	9	12
12	11	8	14	3	10	8	10	12	23	25	25	28	15	9	10	10	5	7	11	5	5	9	6	7	12
13	3	8	12	13	14	7	5	9	12	29	34	35	20	10	10	6	7	8	3	4	4	4	0	4	11
14	4	3	4	1	0	0	2	5	6	7	5	0	6	3	4	2	2	3	9	7	0	0	0	0	3
15	0	5	2	3	4	7	8	2	2	3	3	1	0	0	2	0	0	7	1	0	1	0	0	0	2
16	0	0	0	0	0	2	3	3	5	5	1	3	9	18	17	5	2	0	0	0	0	0	1	5	3
17	2	1	1	1	0	0	0	0	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	1	1	2	5	2	1	0	1	2	2	4	13	10	6	12	9	5	3	3	3
19	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0
22	1	2	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	5	7	0	0	0	0	0	0	1
25	1	0	0	0	0	0	0	1	1	0	1	8	0	0	0	0	5	3	4	1	1	1	2	0	1
26	3	1	2	3	3	3	3	1	1	1	2	3	1	1	2	1	0	2	2	5	3	5	7	6	3
27	7	2	1	2	3	2	5	4	4	5	7	5	8	2	1	3	3	3	2	2	2	0	3	9	4
28	8	2	3	6	12	3	4	4	2	4	5	4	2	0	1	0	0	0	0	2	0	0	0	0	3
29	0	0	0	0	0	0	0	0	0	0	0	4	2	0	6	7	3	3	4	3	1	1	4	3	2
30	3	0	1	2	1	0	0	15	71	55	42	23	11	14	10	9	1	0	0	0	0	0	0	1	11
31	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES ABOVE OBJECTIVE			
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR			
4	2	4	2	10	14	23	29	0	-	76	0	-	12	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL
POLLUTANT : NITROGEN DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	13	10	6	6	7	7	3	3	3	3	2	2	2	2	2	2	4	6	3	4	4	4	7	5	5
2	4	4	1	1	3	2	4	11	9	11	5	11	10	8	4	6	5	3	4	5	5	5	6	4	5
3	2	M	4	4	8	12	15	20	8	3	11	11	14	12	13	7	9	17	14	8	5	5	15	3	10
4	1	7	9	15	16	7	9	11	8	14	12	14	7	8	9	7	11	11	10	9	16	6	11	17	10
5	19	17	14	21	13	15	12	12	16	10	8	10	10	5	12	19	19	19	20	15	12	29	29	43	17
6	26	23	22	18	29	14	12	19	15	17	12	15	18	13	5	8	8	12	19	25	17	12	8	11	16
7	7	4	4	4	7	9	16	6	7	12	16	7	2	2	5	6	12	18	13	10	14	19	10	15	9
8	12	6	5	9	9	12	17	20	11	10	12	9	13	12	8	7	8	18	16	24	14	14	22	9	12
9	8	5	6	5	8	8	11	17	19	15	13	10	12	9	16	14	11	13	11	12	7	1	13	13	11
10	1	0	2	2	10	13	13	21	29	18	25	10	9	11	18	20	31	9	1	2	6	1	1	1	11
11	0	0	1	0	0	1	3	28	22	12	13	10	14	12	8	5	18	16	21	27	12	9	6	21	11
12	23	14	13	9	29	25	25	28	28	32	32	45	34	21	28	25	13	22	30	17	18	27	23	26	24
13	14	16	21	22	28	16	18	28	24	47	54	57	33	17	17	17	13	15	15	13	14	11	3	9	22
14	4	5	2	1	0	0	1	5	10	10	7	0	5	1	3	1	6	4	16	16	2	1	5	1	4
15	1	12	4	7	5	13	17	12	7	7	8	6	2	3	24	9	12	36	26	5	33	32	28	2	13
16	2	3	3	1	1	6	8	6	10	19	7	22	34	39	38	20	28	25	23	34	7	19	35	30	18
17	16	M	9	7	7	2	6	11	8	15	10	5	3	4	2	4	8	2	1	2	1	3	5	4	6
18	2	10	10	9	2	4	8	24	41	34	24	18	10	7	3	3	14	40	53	24	13	9	7	5	16
19	5	5	5	6	5	4	6	14	23	26	13	3	5	9	16	7	10	14	2	3	1	0	0	0	8
20	0	0	0	0	0	0	0	0	0	1	0	2	3	0	0	4	2	5	2	0	2	0	6	11	2
21	4	3	1	0	0	2	0	1	0	3	3	1	2	0	2	2	5	2	2	0	1	0	0	1	1
22	0	0	0	0	0	0	0	1	0	2	7	3	1	2	0	0	2	0	1	6	5	3	3	1	2
23	1	1	0	1	0	0	3	2	0	1	4	1	0	1	3	3	9	13	8	8	3	7	6	0	3
24	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	23	3	3	0	0	0	0	2
25	1	0	0	0	0	0	0	3	5	2	7	18	0	1	4	3	14	10	3	1	1	1	1	1	3
26	3	1	1	1	2	1	1	2	8	9	6	7	2	1	5	1	3	6	11	6	5	7	8	3	4
27	5	0	0	0	0	0	4	1	3	0	1	0	1	0	0	3	8	3	2	1	0	0	0	14	2
28	9	2	2	8	15	2	4	1	0	0	2	0	0	0	0	0	0	0	3	9	1	0	0	0	2
29	0	0	0	0	0	0	0	0	2	7	3	7	5	2	6	5	2	12	9	9	9	7	7	2	4
30	3	0	0	2	0	1	3	19	40	35	32	25	17	19	18	14	8	10	15	16	17	9	10	21	14
31	14	M	10	9	9	10	12	12	10	8	12	10	6	8	11	10	12	16	20	15	14	11	11	1	11

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES				
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR				
7	7	9	7	21	28	34	40	0	-	57	1	-	24	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL
POLLUTANT : SULPHUR DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	1	0	0	0	1	1	2	2	0	6	1	1	2	0	0	0	0	0	0	1
4	0	1	2	1	3	2	13	5	6	3	2	6	31	13	15	13	24	28	8	7	4	4	4	12	9
5	22	26	18	24	25	28	8	18	9	17	41	46	18	11	13	12	31	34	18	12	11	28	26	10	21
6	9	6	1	6	8	5	4	2	21	77	26	9	1	0	0	0	1	0	1	0	0	1	1	0	7
7	0	1	1	0	0	0	1	1	0	2	1	5	5	6	6	5	5	7	4	4	3	4	5	4	3
8	5	4	8	2	3	5	5	10	9	4	2	2	5	13	8	6	12	11	11	5	7	7	12	4	7
9	2	4	10	15	10	13	5	5	16	17	42	31	15	10	14	13	8	3	5	4	4	5	2	5	11
10	4	5	6	11	5	4	8	17	23	24	25	25	20	15	6	13	3	1	3	8	6	2	2	1	10
11	2	4	4	3	4	3	3	2	5	19	29	27	4	0	0	0	0	0	0	1	2	2	2	1	5
12	1	0	0	0	0	0	0	1	2	9	12	11	7	9	15	4	1	0	2	3	3	7	5	4	4
13	4	4	2	2	3	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	1	4	1	2	2	1	1	1	1	1	1	1	1	3	1	2	2	3	1	3	6	2	2
16	2	1	1	1	3	2	3	1	2	2	1	1	3	1	1	3	2	4	3	5	4	3	4	4	2
17	4	3	5	1	1	1	4	3	1	1	2	1	1	4	3	1	4	1	2	7	9	8	12	8	4
18	7	5	3	4	5	3	4	5	3	5	4	4	4	2	1	5	6	7	8	5	3	2	3	1	4
19	7	9	9	7	7	7	9	8	5	9	15	3	0	5	19	21	20	47	38	27	30	13	3	10	14
20	5	2	7	3	22	12	14	33	95	52	21	16	26	16	15	16	17	14	19	14	19	25	42	19	22
21	10	14	38	35	48	31	52	34	38	30	D	D	42	44	41	30	40	34	38	40	40	35	31	37	36
22	37	32	19	10	6	9	8	10	26	26	32	32	24	24	23	13	14	11	12	9	6	5	7	3	17
23	2	0	1	2	0	2	1	1	2	5	5	3	1	1	2	0	3	0	3	2	3	5	4	5	2
24	5	3	3	1	2	1	1	2	1	2	3	2	4	6	3	2	6	6	6	8	4	3	4	10	4
25	5	4	2	2	3	3	2	3	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1
26	1	1	0	0	1	0	4	5	20	44	65	41	6	13	2	1	4	4	4	2	2	0	0	1	9
27	2	0	5	5	10	8	17	29	34	54	51	26	19	14	14	16	14	13	5	5	5	7	4	12	15
28	6	8	4	2	3	12	27	10	5	2	20	24	15	15	9	14	8	7	4	6	4	4	8	8	9
29	9	9	9	5	3	7	15	25	21	19	33	16	15	24	26	19	11	8	5	12	21	16	23	9	15
30	10	5	4	6	5	9	2	1	3	1	10	11	16	13	29	19	28	29	36	33	21	20	16	5	14
31	6	5	5	11	15	1	2	8	9	10	M	7	24	54	35	20	1	0	0	2	5	8	6	14	11

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE	1-HR	24-HR
6	4	8		4	24	33	42	50	0	-	95	0	-	36	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL
POLLUTANT : NITROGEN DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	0	0	0	0	0	0	1	2	3	2	0	0	0	4	3	6	5	0	3	4	1	1	1	2
2	0	1	0	0	0	0	2	7	7	3	6	2	0	1	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	3	0	0	1	5	1	3	0	0	3	0	0	1	0	0	0	0	0	1	1
4	0	1	2	1	3	1	20	6	9	4	3	8	22	11	14	16	26	28	17	31	21	9	12	52	13
5	46	35	22	29	22	22	8	25	18	24	25	33	21	15	18	26	49	50	39	26	28	42	46	17	29
6	12	7	0	0	1	2	2	0	20	37	24	21	7	1	0	0	0	0	3	0	0	2	0	1	6
7	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	1	3	0	0	0	0	0	1	0
8	2	0	1	0	0	0	3	11	3	1	0	0	0	3	1	1	5	7	8	6	8	3	11	2	3
9	0	2	3	6	6	11	9	3	13	11	21	23	17	12	9	7	6	8	14	9	6	6	2	7	9
10	2	1	2	13	2	0	4	6	17	15	15	18	18	9	3	11	2	1	10	12	6	2	2	0	7
11	0	0	0	0	0	1	2	0	6	22	24	18	4	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	6	7	8	18	19	12	10	18	6	9	11	37	37	14	18	16	6	11
13	2	0	0	0	0	0	0	3	6	6	7	5	7	3	0	0	1	1	2	2	0	0	0	1	2
14	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
15	0	0	0	1	0	1	1	2	5	3	2	0	0	0	1	2	1	1	2	4	1	2	7	4	2
16	2	0	0	0	2	1	5	3	5	4	3	3	6	3	4	8	6	11	10	12	11	8	11	4	5
17	1	0	0	0	0	0	12	4	0	1	0	0	0	3	7	3	5	1	0	13	12	8	14	15	4
18	7	1	1	0	1	0	0	2	1	3	0	0	2	0	0	2	5	10	13	5	0	0	1	2	2
19	10	8	6	4	5	7	9	10	16	18	20	10	2	18	30	32	31	41	51	55	52	21	0	8	19
20	0	0	6	2	42	39	35	39	46	39	32	26	37	23	15	18	27	36	52	39	63	100	66	30	34
21	30	25	36	24	56	51	61	58	71	76	D	D	65	53	57	M	88	70	73	44	41	28	23	21	50
22	15	22	11	13	0	2	0	2	20	26	M	36	32	23	23	16	19	14	16	14	10	5	11	12	15
23	9	3	5	6	1	7	15	8	14	19	15	15	7	9	12	3	7	7	12	10	11	11	11	22	10
24	20	14	13	11	12	11	12	22	19	19	19	M	7	7	4	8	14	18	27	28	20	15	17	7	15
25	1	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	1	3	14	21	24	25	10	7	0	0	6	4	9	8	23	11	1	11	7
27	1	1	2	0	3	2	13	12	20	17	14	9	6	4	4	10	8	8	7	11	1	2	0	14	7
28	1	M	0	0	1	5	12	7	1	0	8	14	9	12	5	12	11	9	6	5	0	2	7	15	6
29	13	7	7	0	2	6	18	25	24	26	28	23	32	33	31	24	22	20	18	18	20	23	42	14	20
30	9	3	2	1	0	4	0	8	20	6	48	38	51	52	75	63	77	80	100	94	43	40	28	2	35
31	1	1	0	14	33	3	8	14	6	11	M	38	54	58	51	30	9	0	2	8	30	36	46	54	22

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	1-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR		
8	4	11	4	31	46	62	74	0	-	100	0	-	50	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL
POLLUTANT : SULPHUR DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	9	12	8	25	20	13	13	10	20	31	42	60	24	15	15	8	4	4	19	6	4	0	0	22	16
2	23	8	26	18	5	4	4	12	29	38	19	15	18	29	28	16	17	11	8	6	5	2	3	0	14
3	0	0	3	10	8	4	4	4	9	14	7	6	10	17	0	2	12	15	7	4	2	3	1	1	6
4	0	3	3	1	2	3	1	3	13	3	16	2	4	1	0	0	0	0	0	0	0	1	0	0	2
5	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
6	0	1	0	1	3	2	2	3	4	4	3	3	2	4	3	2	2	1	1	1	0	1	1	1	2
7	2	1	1	1	1	1	1	1	1	1	3	2	1	1	2	3	5	4	5	4	4	4	4	2	2
8	2	2	1	1	2	3	2	2	3	3	2	2	1	1	1	1	0	2	2	4	3	4	3	3	2
9	2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1
10	1	1	1	1	0	0	1	2	3	2	M	M	1	1	1	2	1	1	2	3	4	4	4	4	2
11	2	2	2	3	2	2	2	2	2	2	2	2	2	1	1	1	0	1	1	3	3	2	1	3	2
12	2	2	3	2	2	1	1	2	3	5	3	2	1	1	1	2	1	3	2	1	1	1	2	2	2
13	3	3	2	2	2	2	2	4	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1
14	1	1	0	1	1	1	1	1	1	1	3	1	1	2	2	2	4	4	2	2	1	1	2	1	2
15	0	1	1	1	5	10	26	65	30	54	48	45	47	32	37	26	22	4	2	3	4	5	4	2	20
16	2	2	1	1	1	1	2	2	2	2	4	5	5	5	5	4	4	2	2	2	3	3	2	2	3
17	2	1	2	3	3	4	4	6	5	4	4	4	4	3	4	4	4	4	2	1	3	2	1	1	3
18	1	0	0	0	1	2	3	4	5	4	5	4	5	4	6	5	2	1	1	1	2	2	2	3	3
19	3	4	5	5	6	8	8	9	9	5	3	3	3	4	2	1	1	1	0	1	3	2	2	3	4
20	3	3	6	5	5	5	21	16	15	15	32	28	49	52	51	44	30	29	18	25	21	18	25	23	22
21	34	39	19	16	20	19	22	17	15	20	14	10	12	11	10	9	9	8	9	13	19	23	24	18	17
22	15	14	14	12	11	10	13	9	8	7	8	6	4	3	3	4	2	6	8	7	8	6	5	4	8
23	5	1	1	1	1	2	1	2	2	2	3	2	2	2	2	4	5	6	6	2	1	0	0	1	2
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	0
25	2	2	1	2	3	3	2	2	2	2	2	M	3	2	1	2	1	2	3	5	5	3	2	3	2
26	3	4	2	3	3	3	4	5	5	4	4	3	3	3	3	3	3	3	4	5	4	3	3	3	3
27	2	2	3	4	3	4	6	7	6	5	4	3	3	3	4	3	4	5	3	2	2	2	2	2	4
28	2	2	3	2	2	2	2	3	3	5	6	5	4	4	3	3	4	5	4	3	4	4	3	3	3
29	3	3	3	3	4	4	4	4	5	4	4	4	4	4	3	3	2	3	2	3	2	2	2	3	3
30	3	5	5	5	5	5	5	5	4	4	4	3	2	2	3	3	2	0	1	2	1	1	2	1	3

MONTHLY STATISTICS:

GEOM	ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	50	90	95	98	99	1-HR	24-HR	24-HR	24-HR	DEVIATION	VALID DATA	1-HR	24-HR	ABOVE OBJECTIVE	ABOVE OBJECTIVE	
3	3	5	3	14	22	33	47	0	-	65	0	-	22	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : QUEEN MARY HOSPITAL
POLLUTANT : NITROGEN DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	23	33	29	39	48	30	38	31	42	49	55	58	25	4	7	0	0	1	15	2	1	0	2	39	24
2	35	8	23	12	1	0	2	12	24	18	13	9	6	17	21	9	7	7	12	7	5	1	4	2	11
3	0	0	14	17	21	20	29	23	16	17	9	7	19	20	2	6	32	39	38	38	31	31	10	3	18
4	0	0	0	0	0	0	0	9	21	3	10	0	0	0	0	0	4	14	12	13	7	13	6	2	5
5	0	0	0	0	0	0	0	1	0	3	1	0	1	0	1	2	0	1	1	2	12	8	1	6	2
6	0	0	0	0	0	0	2	15	21	22	17	16	5	13	6	1	7	8	35	24	12	8	7	12	10
7	11	11	7	2	0	1	2	9	11	16	11	13	13	8	9	18	28	33	18	21	12	14	11	22	13
8	14	7	6	1	0	0	0	0	1	1	3	1	0	0	3	2	0	2	3	15	23	17	7	9	5
9	0	0	0	0	0	0	0	5	16	15	10	6	4	2	0	0	1	16	35	32	7	9	1	8	7
10	1	0	0	0	0	0	5	22	30	18	M	M	15	13	15	11	7	4	4	4	13	23	19	24	10
11	9	M	5	4	3	4	9	14	26	34	20	18	8	7	6	6	3	2	3	7	11	14	20	18	11
12	13	12	8	4	4	3	8	18	30	23	15	8	9	9	5	2	2	7	11	9	13	13	14	32	11
13	30	9	6	4	2	3	4	10	15	19	16	9	0	1	1	1	1	3	7	6	18	23	20	27	10
14	22	14	13	13	13	9	10	14	22	25	M	M	17	24	15	10	12	25	22	10	12	16	34	8	16
15	3	1	0	0	15	37	38	38	33	44	52	59	73	51	50	32	43	14	15	15	11	11	9	13	27
16	7	5	3	2	2	4	8	17	20	20	15	17	13	14	14	17	14	12	14	14	16	20	8	1	12
17	0	0	0	0	0	0	0	5	6	3	2	0	0	1	4	10	15	14	8	10	11	2	0	4	4
18	1	0	0	0	0	0	2	13	14	11	10	9	5	11	16	15	11	10	5	6	10	13	11	12	8
19	6	3	3	2	1	1	3	13	17	14	8	4	3	7	6	5	2	3	5	9	9	4	6	10	6
20	9	4	11	6	6	6	31	34	24	27	41	38	59	67	56	49	48	64	31	47	30	50	59	77	36
21	77	76	48	30	28	17	24	40	41	44	30	23	40	40	33	28	19	24	22	37	56	54	58	45	39
22	27	18	18	14	11	8	14	12	18	16	14	24	7	16	14	19	14	21	21	18	13	7	0	1	14
23	1	0	0	0	0	2	1	1	0	0	0	0	0	2	2	7	14	17	7	0	0	0	0	3	2
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	10	8	4	4	3	7	2
25	1	M	2	0	0	0	3	9	12	12	9	M	5	4	3	8	6	6	9	8	15	4	1	10	6
26	8	5	1	0	0	0	4	23	14	25	10	10	7	9	9	11	15	18	25	47	27	32	17	18	14
27	4	2	2	6	10	12	30	34	19	18	17	11	5	8	15	12	19	19	18	14	12	11	4	11	13
28	6	2	0	1	0	0	1	5	12	43	39	39	34	42	20	15	26	67	49	24	15	17	27	27	21
29	34	31	17	6	1	0	0	0	1	0	0	0	2	19	3	11	1	3	2	5	1	6	1	7	6
30	1	0	0	0	0	0	0	4	11	6	14	7	5	9	6	7	5	1	1	8	5	0	1	3	4

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
9	8	12		8	31	41	55	59	0	-	77	2	-	39	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
2	0	0	0	0	0	0	1	4	4	7	2	7	4	3	0	1	2	0	0	0	0	0	0	1	2
3	0	0	0	0	2	3	4	3	3	0	2	1	3	5	2	2	0	3	0	0	0	0	1	3	2
4	1	8	6	5	16	22	11	25	22	18	12	10	12	6	3	2	11	3	1	8	8	1	4	7	9
5	14	10	15	8	4	14	18	17	7	9	8	3	3	2	8	6	9	6	4	10	5	15	15	28	10
6	13	12	13	12	18	7	5	4	5	7	2	11	9	5	2	0	0	15	6	8	14	15	1	10	8
7	5	5	2	4	6	4	12	15	10	13	8	3	5	3	3	5	2	12	16	17	10	3	0	9	7
8	2	2	3	7	6	5	27	6	2	6	4	5	6	1	2	3	2	8	5	3	1	4	3	6	5
9	3	1	3	4	5	3	4	42	9	9	10	10	9	12	18	7	2	7	3	4	6	0	1	4	7
10	3	1	1	5	8	20	16	10	17	20	36	7	17	18	2	13	8	1	0	2	4	0	1	5	9
11	2	3	5	2	2	6	20	142	39	19	29	11	7	10	5	7	6	8	19	12	9	27	16	8	17
12	14	5	14	2	24	3	5	7	16	25	22	30	20	11	10	12	6	5	13	13	14	10	2	5	12
13	1	1	13	19	12	24	18	4	13	24	4	9	14	12	7	3	7	13	2	6	6	2	0	6	9
14	2	2	0	0	0	0	0	1	5	2	1	2	6	6	1	4	10	2	15	4	0	0	0	2	3
15	0	8	1	2	4	9	9	2	1	9	8	2	0	0	0	0	0	0	0	0	0	0	0	3	2
16	0	2	1	0	0	0	2	0	6	2	12	10	10	30	13	5	0	0	0	0	0	0	0	4	4
17	3	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
18	0	0	0	0	0	1	4	0	10	2	0	0	0	0	0	1	3	7	21	9	15	8	5	6	4
19	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
20	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0	0	1	0	0	2	0
21	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
22	2	3	0	0	1	1	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	3	1
23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
24	0	0	0	0	0	0	0	0	0	10	0	3	0	0	0	0	0	0	0	0	0	0	0	4	1
25	5	0	0	0	1	0	1	0	5	15	13	9	0	0	4	1	4	6	5	2	1	1	2	5	3
26	17	3	7	6	3	12	2	2	7	3	10	5	4	2	4	3	2	6	6	3	6	9	18	12	6
27	14	5	1	7	7	10	12	13	12	11	9	10	14	6	5	10	10	10	7	3	4	2	7	8	8
28	8	9	13	10	18	5	10	6	5	14	12	6	1	0	1	0	1	0	1	1	0	2	1	6	5
29	2	0	1	0	1	1	1	0	1	2	0	11	14	2	26	12	4	3	3	2	2	1	4	5	4
30	2	1	0	0	1	0	0	0	99	87	25	6	3	2	0	0	0	0	0	0	0	0	0	4	10
31	0	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE	1-HR	24-HR
5	2	5		2	13	18	25	30	0	-	142	0	-	17	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	9	5	2	3	3	4	1	3	0	2	1	1	1	1	1	1	3	4	0	1	1	0	3	4	2
2	3	3	1	2	2	3	4	5	5	9	5	8	6	4	2	3	5	1	3	4	3	3	6	8	4
3	4	M	6	5	11	10	14	10	7	3	4	6	6	13	12	11	15	15	7	11	5	5	14	4	9
4	5	13	15	15	22	28	22	21	20	21	19	14	18	15	16	17	31	21	14	20	23	10	15	9	18
5	19	15	18	14	11	20	26	17	15	23	17	20	20	22	23	26	22	18	12	19	14	20	27	34	20
6	19	20	21	17	22	10	12	10	9	13	9	13	9	6	5	5	4	14	14	16	15	13	4	8	12
7	8	7	5	5	8	10	13	14	15	11	12	4	4	4	4	15	9	19	20	18	15	7	6	10	10
8	8	5	6	9	11	10	25	12	6	11	9	10	13	9	11	11	13	22	21	13	9	9	11	7	11
9	8	4	6	6	9	6	12	34	12	10	12	10	12	9	16	14	5	8	6	9	10	6	24	11	11
10	5	5	9	11	15	25	28	18	21	31	34	21	17	24	8	22	18	5	5	6	8	19	10	12	16
11	10	14	9	6	4	12	29	43	36	29	26	21	11	12	14	20	16	12	20	15	22	32	22	14	19
12	26	18	24	8	38	22	24	24	27	34	35	50	41	38	40	58	47	46	39	32	31	27	21	20	32
13	27	26	35	37	34	45	37	31	38	49	37	33	40	41	33	36	31	43	23	19	18	11	4	14	31
14	18	11	5	6	2	10	15	13	19	15	12	9	10	8	5	5	13	6	25	9	14	28	16	15	12
15	8	16	8	5	6	18	17	8	4	12	11	4	3	17	28	29	12	23	15	25	25	32	25	19	15
16	7	11	6	4	4	13	10	8	3	13	30	28	31	39	42	34	11	9	16	15	28	19	15	6	17
17	12	M	10	7	4	3	8	13	11	4	7	2	2	4	2	4	4	3	4	2	3	3	2	2	5
18	2	9	13	7	9	20	37	35	29	23	22	12	7	2	2	3	3	6	30	14	19	10	8	6	14
19	4	1	2	2	2	5	17	15	12	14	4	2	15	10	14	4	4	2	1	4	0	1	2	2	6
20	2	2	2	1	2	0	2	2	1	2	2	4	7	3	4	5	7	9	6	6	6	3	5	6	4
21	4	2	6	6	5	7	4	5	4	7	7	4	3	1	3	4	5	6	4	4	2	2	4	5	4
22	4	6	1	0	4	2	2	5	1	1	2	1	0	1	1	2	2	3	4	4	3	4	6	3	3
23	7	5	2	5	3	3	3	3	2	1	0	2	3	4	3	3	6	4	7	6	7	8	1	4	4
24	1	1	3	3	4	1	2	3	3	16	6	14	15	6	6	5	7	11	5	10	33	8	11	6	8
25	13	1	4	1	4	2	3	4	10	13	16	17	5	7	7	8	11	13	7	6	6	5	8	3	7
26	11	4	9	13	4	18	9	7	12	8	14	9	4	3	5	5	6	7	8	8	11	14	21	11	9
27	19	8	4	8	8	11	13	11	10	6	6	7	8	6	3	7	19	12	12	10	8	5	10	10	9
28	16	15	19	16	19	8	10	7	4	9	7	6	3	1	3	2	6	10	9	12	11	14	18	11	10
29	17	10	8	8	9	7	7	6	6	5	3	18	12	4	21	11	5	4	7	7	7	10	16	9	9
30	13	19	5	11	14	14	20	16	41	38	29	15	9	6	1	1	2	2	2	3	2	3	2	4	11
31	2	M	3	2	2	5	4	5	2	2	3	3	0	1	2	4	4	4	4	3	3	2	0	1	3

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
8	8	11		8	25	33	39	43	0	-	58	2	-	32	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
3	1	0	0	0	0	2	0	1	1	6	2	1	2	1	10	0	1	2	0	0	0	0	1	3	1
4	1	0	1	1	5	5	13	1	12	3	2	8	9	18	24	28	63	36	12	11	17	55	22	34	16
5	43	18	41	60	96	73	16	15	17	33	39	26	13	14	26	27	45	20	18	19	41	25	27	48	33
6	31	22	15	15	16	15	12	7	17	5	2	2	1	0	0	1	1	1	3	2	2	1	4	4	7
7	2	2	3	0	2	0	3	1	2	1	0	3	1	5	1	1	4	13	3	1	0	1	2	6	2
8	3	4	8	3	1	6	7	6	5	2	11	9	10	7	5	5	18	11	2	3	6	11	20	8	7
9	2	17	21	18	14	13	9	2	7	13	19	21	11	9	22	25	5	4	8	4	10	11	12	27	13
10	14	25	14	35	19	5	18	15	25	25	23	42	16	13	10	12	4	3	13	17	7	2	0	5	15
11	4	3	3	2	3	3	2	2	1	0	2	0	0	0	0	0	0	0	0	1	3	2	1	1	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	4	0	0	3	2	7	1
13	5	3	2	3	2	4	2	2	2	1	1	0	1	0	0	0	0	0	0	0	0	0	1	2	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
15	0	0	6	4	0	7	6	3	0	1	3	1	2	4	2	2	2	3	3	9	2	4	3	4	3
16	2	1	1	3	2	4	2	0	4	5	0	2	3	1	1	10	2	1	2	9	4	8	6	15	4
17	4	6	8	5	3	4	5	6	3	4	6	3	1	7	4	2	8	6	11	16	31	21	31	19	9
18	20	11	9	3	7	4	11	11	7	16	9	11	4	3	4	9	5	12	14	9	5	5	6	11	9
19	21	15	12	15	14	6	9	17	11	16	13	2	5	13	18	15	46	82	46	31	41	53	17	55	24
20	20	26	43	6	19	10	25	65	198	80	29	18	35	28	22	26	15	15	18	16	64	85	68	59	41
21	21	78	72	41	27	58	65	34	38	31	34	41	47	47	45	52	91	53	79	49	86	38	36	90	52
22	73	19	9	10	28	40	23	13	14	16	21	6	17	16	27	10	6	6	2	2	1	0	1	8	15
23	1	0	1	2	1	0	0	0	0	5	3	2	3	2	4	0	0	0	2	4	1	5	5	8	2
24	4	4	6	2	3	4	1	0	1	0	2	1	5	6	1	3	5	5	6	7	0	4	3	6	3
25	3	3	3	5	2	7	1	2	0	0	2	1	0	0	0	0	1	1	1	0	0	0	0	1	1
26	2	0	0	0	0	0	1	53	98	128	63	1	0	1	0	0	2	23	4	2	1	3	5	26	17
27	24	16	18	19	20	29	13	17	69	79	45	38	27	25	29	15	22	18	7	14	17	10	14	25	25
28	19	18	9	5	4	31	43	10	9	12	M	M	32	20	8	18	18	16	7	9	10	18	19	13	16
29	27	27	30	12	15	18	10	22	21	29	46	23	35	32	32	29	9	9	8	14	20	25	48	38	24
30	24	4	10	6	11	6	0	0	0	4	11	9	23	13	22	26	32	33	23	24	19	15	23	22	15
31	10	16	9	4	2	0	12	28	13	37	16	21	70	39	33	19	0	0	0	0	1	7	26	39	17

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID	DATA	1-HR	24-HR	
8	5	12		5	32	47	72	84	0	-	198	0	-	52	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	1	1	1	1	2	2	3	3	2	3	4	3	1	2	3	2	3	2	2	3	3	3	2	3	2
2	2	4	2	2	2	2	5	9	4	5	5	5	2	2	1	6	3	4	2	4	0	0	1	4	3
3	3	4	1	1	1	10	4	5	6	15	6	3	3	3	9	3	4	6	6	6	5	4	7	5	5
4	7	4	6	5	9	11	19	5	8	7	4	7	6	6	10	18	38	29	18	18	24	53	47	39	17
5	47	24	34	47	49	45	31	38	30	30	31	37	33	34	51	47	49	24	20	26	46	36	35	38	37
6	36	32	12	13	14	19	20	30	22	6	3	2	2	0	2	2	3	3	6	4	4	4	6	4	10
7	7	7	5	2	5	2	7	6	4	4	2	5	3	6	3	4	6	14	8	6	3	5	8	11	6
8	9	10	11	7	6	12	21	11	7	11	11	10	12	14	17	18	24	23	14	11	12	15	21	17	14
9	9	24	21	23	22	20	20	13	24	26	28	34	33	40	62	61	46	45	37	19	25	29	27	31	30
10	27	32	28	36	30	17	28	25	21	25	28	35	24	23	16	30	21	21	16	21	14	5	5	5	22
11	7	6	8	7	12	20	19	8	7	4	13	8	6	2	3	3	4	7	6	7	6	7	6	6	8
12	5	3	5	4	3	12	23	22	8	8	8	5	9	27	18	3	3	5	12	19	15	22	21	21	12
13	15	9	5	4	4	7	13	29	21	14	16	14	7	8	9	9	7	7	4	4	4	1	0	2	9
14	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	3	0
15	2	2	4	6	4	8	11	4	6	6	10	7	5	7	6	8	12	10	6	11	6	8	9	8	7
16	6	3	2	6	8	7	5	4	9	10	7	8	8	8	7	17	11	11	10	12	11	17	12	16	9
17	11	11	11	8	5	8	6	6	7	10	7	8	3	12	11	7	12	13	19	22	30	22	34	22	13
18	18	10	9	5	9	7	16	11	8	15	9	8	7	4	8	15	12	24	30	20	11	11	11	16	12
19	32	25	19	22	24	13	16	20	24	26	16	26	23	14	24	25	54	61	51	41	48	52	24	59	31
20	34	39	43	17	44	40	54	57	60	47	45	39	47	39	47	65	51	75	51	46	84	77	60	84	52
21	46	93	85	59	57	79	90	71	82	84	94	97	79	63	73	92	169	144	150	76	134	65	44	88	88
22	93	27	14	27	37	38	33	20	29	33	43	34	43	43	61	33	31	34	21	10	7	4	13	19	31
23	8	5	8	10	6	5	7	12	12	21	24	28	17	12	7	6	8	8	11	16	9	13	10	19	12
24	12	11	10	10	5	7	5	5	6	11	10	4	10	11	5	18	19	16	16	17	7	15	9	13	11
25	8	9	9	8	7	9	4	7	3	1	4	2	1	0	1	1	4	11	3	8	3	2	4	9	5
26	8	6	7	6	9	15	22	29	38	45	30	4	2	5	2	2	7	18	12	7	13	8	13	34	14
27	32	31	29	32	29	29	27	33	38	36	32	27	20	14	22	23	25	29	15	24	28	21	21	35	27
28	24	M	19	17	18	27	25	15	15	16	M	M	31	25	19	25	26	22	17	16	16	27	24	8	21
29	20	22	31	19	27	30	27	34	32	33	37	34	37	32	32	38	35	27	23	26	30	30	50	34	31
30	26	10	11	17	21	8	6	12	26	43	63	48	60	67	87	85	91	109	75	83	68	60	51	41	49
31	23	31	18	12	19	7	35	46	40	35	39	42	51	40	35	47	19	25	46	36	24	67	84	86	38

MONTHLY STATISTICS:

GEOM		ARITH	<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	1-HR	24-HR	
13	12	20	12	46	63	85	93	0	-	169	0	-	88	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN	
1	21	17	13	14	27	13	10	45	37	40	93	90	39	22	14	8	4	3	12	2	3	1	1	29	23	
2	22	16	33	19	6	3	5	16	48	33	20	22	31	40	22	11	13	9	11	14	6	5	9	4	17	
3	9	9	14	27	31	23	22	28	34	23	9	2	2	3	1	4	7	16	3	2	1	0	0	1	11	
4	1	7	3	3	3	3	1	11	9	1	10	4	12	0	0	0	0	0	0	0	0	0	0	4	3	
5	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	5	1	
6	1	1	2	2	3	4	3	5	5	4	5	3	4	4	4	3	2	2	2	1	1	3	3	4	3	
7	1	1	0	1	1	1	0	0	1	1	2	1	1	0	2	2	4	4	3	2	4	4	5	3	2	
8	1	1	0	0	1	2	1	1	2	2	2	1	0	0	0	0	0	3	4	4	4	4	4	5	2	
9	2	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	2	3	3	2	2	2	4	1	
10	3	2	2	3	1	1	1	1	1	4	3	1	0	0	0	1	2	2	4	11	7	4	3	1	2	
11	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	4	4	8	0	7	1	
12	4	3	4	2	3	3	3	3	2	6	3	2	3	2	2	2	2	4	3	2	2	3	3	6	3	
13	4	3	2	2	1	2	3	2	3	3	1	1	0	1	1	0	0	0	0	0	0	0	0	5	1	
14	2	1	1	2	2	2	2	2	2	2	10	7	4	4	3	4	7	5	5	4	5	6	4	7	4	
15	2	4	4	4	2	7	21	32	159	113	47	79	50	42	60	35	10	7	11	5	6	5	3	4	30	
16	2	0	0	0	0	0	0	0	1	0	1	2	3	4	4	2	2	0	0	0	1	1	0	3	1	
17	1	1	2	2	2	3	3	3	4	3	4	3	3	4	1	4	4	3	1	0	2	1	1	4	2	
18	1	1	1	1	1	1	3	4	5	6	3	6	6	8	5	4	2	2	1	1	3	3	3	5	3	
19	4	5	4	6	7	7	9	9	10	4	3	1	3	3	1	3	2	1	2	1	3	2	2	6	4	
20	4	4	3	3	3	2	6	18	17	45	48	28	38	51	42	48	42	24	21	25	17	33	20	28	24	
21	25	27	20	11	13	11	9	13	13	10	6	6	7	8	10	6	6	M	4	9	13	13	17	16	12	
22	10	10	9	9	9	7	6	5	5	4	3	2	1	1	0	1	0	7	5	5	8	2	2	10	5	
23	10	3	2	1	1	0	0	1	3	3	2	1	0	1	1	6	6	6	9	1	2	1	1	3	3	
24	1	1	1	2	1	1	1	1	1	2	1	1	1	0	0	0	0	2	1	1	2	1	1	1	1	0
25	1	0	0	1	0	0	0	1	0	0	0	1	1	1	0	0	0	0	2	1	0	0	0	1	0	
26	0	1	0	0	1	1	0	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	2	1	
27	1	0	2	3	1	2	3	4	4	4	0	2	2	1	1	2	2	2	2	1	1	1	1	2	2	
28	2	1	1	2	1	2	2	1	2	2	3	3	3	2	2	1	4	1	2	2	4	4	5	3	2	
29	2	2	2	1	2	3	3	3	3	3	2	2	3	2	2	1	1	1	1	0	0	0	0	5	2	
30	4	4	6	6	5	5	5	5	5	4	4	3	2	5	4	5	3	1	2	2	1	2	2	1	4	

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN	GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE	1-HR	24-HR
3	2	6		2	13	27	42	50	0	-	159	0	-	30	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	54	55	52	56	63	57	52	56	47	55	64	66	54	28	24	18	12	18	17	14	23	38	48	47	42
2	38	32	30	23	8	4	24	34	30	28	20	19	23	27	13	9	12	23	18	19	8	11	16	36	21
3	36	43	41	42	41	40	36	31	26	16	16	24	14	5	10	25	26	40	35	29	23	33	17	25	28
4	8	17	8	7	8	7	4	20	18	15	19	10	13	5	10	3	6	4	9	16	12	6	5	1	10
5	1	2	2	2	2	1	4	2	4	5	3	23	26	35	44	60	61	63	57	37	15	3	2	5	19
6	8	6	4	4	3	4	15	16	14	9	12	8	6	5	7	7	8	5	4	4	4	5	7	10	7
7	21	13	9	5	7	10	11	20	19	15	14	8	6	6	7	10	10	11	7	13	8	10	11	15	11
8	8	7	4	7	5	8	8	9	9	7	10	7	2	3	4	4	3	5	7	13	13	4	4	6	7
9	6	4	4	3	2	4	11	15	17	12	13	11	4	4	1	1	3	5	7	12	7	3	5	3	7
10	4	3	3	4	3	9	17	27	13	21	18	15	4	7	5	4	3	1	4	11	8	5	3	6	8
11	3	3	2	2	3	4	13	26	31	16	13	8	7	3	7	2	2	5	7	9	7	15	4	8	8
12	12	16	9	4	3	3	8	10	8	6	5	6	4	1	2	3	3	3	7	6	6	6	8	29	7
13	32	24	11	11	10	12	22	36	27	15	10	6	0	2	3	3	4	4	3	3	11	14	13	10	12
14	8	5	4	4	9	13	23	28	23	11	11	10	7	5	4	6	10	9	8	7	7	15	10	10	10
15	34	15	15	8	12	25	40	39	50	53	49	53	40	M	58	41	19	19	31	24	8	6	8	3	28
16	2	1	1	2	3	3	10	15	13	6	7	6	6	4	5	9	8	5	3	5	6	7	3	6	6
17	4	3	2	2	3	5	10	12	16	6	7	4	3	8	8	22	20	11	7	4	5	3	3	5	7
18	4	2	2	2	2	4	8	15	15	13	15	10	8	9	7	5	3	2	3	5	8	6	7	7	7
19	11	9	7	5	10	14	21	22	31	14	8	8	6	6	8	6	4	4	3	5	8	5	6	14	10
20	12	13	10	6	4	9	33	40	32	48	54	46	60	66	60	73	63	37	41	43	35	72	52	83	41
21	78	68	47	23	24	21	31	33	36	45	39	34	35	42	45	34	47	M	56	38	38	32	45	48	41
22	35	28	27	17	16	14	17	22	20	22	21	27	14	18	16	19	17	29	31	25	31	12	9	19	21
23	25	10	9	8	9	8	9	14	14	12	11	12	11	15	16	23	25	20	26	15	13	10	9	14	14
24	13	12	12	13	13	13	12	14	13	12	12	12	12	13	14	14	14	17	15	14	15	15	15	18	14
25	16	M	16	16	16	17	18	20	20	18	22	16	15	7	5	8	5	7	7	8	7	4	5	14	12
26	5	9	5	4	5	5	14	32	30	22	13	14	13	12	13	16	23	26	49	38	31	44	37	35	21
27	28	19	14	18	13	17	28	41	23	15	15	12	6	6	7	11	15	9	9	11	6	8	15	8	15
28	5	8	9	10	11	11	16	29	34	35	34	38	39	38	25	27	50	69	36	25	27	13	21	53	28
29	40	26	17	13	14	12	17	19	19	21	25	25	25	24	24	29	29	28	30	29	28	22	27	32	24
30	22	19	15	16	15	17	24	26	29	26	20	22	23	22	16	15	12	11	13	17	15	13	14	20	18

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
12	12	17		12	38	49	60	66	0	-	83	6	-	42	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN	
1	5	5	2	2	2	2	2	2	2	1	1	1	2	1	0	1	1	0	1	0	0	0	0	0	1	1
2	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	2	3	2	2	4	2	2	2	2	1	0	0	1	1	0	0	1	
5	0	0	0	1	0	0	0	0	0	1	3	3	1	4	5	5	1	0	1	0	0	0	0	0	1	
6	0	0	0	0	0	0	0	1	0	3	3	5	3	5	6	4	4	1	0	0	0	0	0	0	1	
7	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	3	6	4	3	1	3	5	6	0	0	0	0	0	0	0	1	
9	1	1	1	1	0	0	1	1	1	1	3	6	0	3	4	1	1	2	0	0	2	4	6	5	2	
10	3	2	2	2	2	1	0	0	0	0	4	9	2	3	3	3	4	8	4	5	5	2	2	2	3	
11	1	1	1	1	2	3	1	1	3	6	5	3	0	5	10	8	6	1	1	0	1	0	0	1	3	
12	1	1	1	1	1	1	2	3	4	8	11	13	5	14	11	6	12	4	1	0	1	1	1	2	4	
13	2	2	4	4	7	4	3	6	7	10	10	9	5	7	8	7	4	1	1	2	1	0	0	0	4	
14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	3	0	0	0	0	1	0	0	
15	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	1	2	1	1	1	1	1	1	
16	1	1	1	1	1	1	0	3	0	2	2	0	0	0	1	1	2	4	1	1	0	1	1	1	1	
17	1	2	1	2	2	2	2	6	9	12	7	4	1	2	5	3	4	0	0	0	0	0	0	0	3	
18	0	0	0	1	3	5	5	5	6	7	21	6	2	2	5	7	13	10	12	13	14	10	9	6	7	
19	4	3	2	3	2	2	6	8	12	9	5	1	0	5	12	4	1	2	2	3	0	0	1	2	4	
20	3	2	2	3	4	2	2	1	1	2	3	0	0	0	0	4	4	2	3	1	3	3	2	1	2	
21	0	1	1	2	2	3	2	3	3	1	3	3	2	2	3	5	3	1	1	0	1	4	3	2	2	
22	3	4	2	2	2	1	2	2	3	3	1	2	1	3	0	2	1	2	2	2	3	2	2	2	2	
23	2	3	3	3	1	2	2	4	3	2	1	0	1	3	0	1	1	1	4	2	3	4	2	2	2	
24	1	1	3	4	3	1	1	0	0	1	0	1	3	3	2	4	0	0	0	2	1	2	1	1	1	
25	2	0	0	1	1	0	0	0	1	1	3	3	1	2	4	2	2	1	0	0	0	0	1	0	1	
26	0	0	0	0	0	0	0	0	1	2	2	2	1	3	2	5	3	0	0	0	0	0	0	0	1	
27	0	0	0	0	0	0	0	0	0	2	3	2	1	0	1	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	2	0	0	3	2	1	3	1	0	0	0	0	0	0	2	1	
29	3	2	5	3	2	2	3	5	6	5	5	5	6	4	3	3	2	6	2	2	3	3	4	6	4	
30	3	3	3	6	4	4	6	12	14	15	11	14	4	7	12	7	7	8	0	2	2	3	3	3	6	
31	1	2	2	1	1	2	4	2	2	2	3	3	1	0	1	1	1	3	0	1	2	2	1	1	2	

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
2	1	2		1	5	7	12	13	0	-	21	0	-	7	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH:JULY

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	10	11	2	4	9	7	6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	1	2	7	5	4	0	5	6	5	8	2	0	0	0	1	0	0	2
5	0	0	0	0	0	0	0	0	2	4	7	4	0	4	2	4	1	0	0	1	0	0	0	0	1
6	0	0	0	1	1	1	0	1	0	7	8	11	6	8	7	4	4	1	0	0	0	0	0	0	3
7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	5	12	5	1	2	4	7	10	1	0	0	0	0	0	0	2
9	2	0	0	0	0	0	0	0	0	2	2	2	0	1	3	0	3	2	0	0	1	4	12	13	2
10	9	3	6	6	10	2	4	3	0	1	15	19	4	6	3	1	1	8	7	8	10	2	5	2	6
11	1	0	2	1	8	24	5	2	12	16	11	6	0	11	17	13	4	1	1	0	1	0	0	0	6
12	5	7	6	9	16	13	16	12	10	21	23	25	5	34	25	12	29	10	4	0	3	20	5	9	13
13	15	15	19	14	30	14	15	20	21	27	22	17	3	9	17	16	6	0	5	0	0	0	0	0	12
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	3	36	0	2
15	11	4	0	0	0	0	0	0	0	1	2	0	0	11	13	15	22	6	12	6	15	8	13	5	6
16	6	5	5	5	5	8	1	12	2	17	11	15	3	1	4	6	6	14	4	3	2	5	2	3	6
17	8	M	7	9	10	3	5	18	21	22	7	1	0	0	1	2	7	0	2	0	1	4	5	1	6
18	2	2	18	21	26	28	27	23	24	42	46	18	4	1	3	5	7	9	17	30	30	17	22	9	18
19	7	4	1	2	2	2	18	22	25	22	12	3	3	21	33	10	6	3	5	9	0	1	2	7	9
20	12	6	5	6	10	4	9	0	0	0	2	0	0	0	1	3	10	3	8	4	12	5	3	6	5
21	0	0	1	5	4	4	2	7	1	0	3	1	0	0	0	2	2	1	0	0	4	6	3	1	2
22	4	6	0	2	2	1	2	1	1	0	0	0	0	2	0	0	0	1	2	3	7	3	3	6	2
23	4	8	6	5	4	6	7	4	0	0	0	1	9	1	0	2	5	8	9	16	19	4	2	5	
24	0	0	4	8	5	0	0	0	0	4	25	3	7	14	2	12	23	4	0	10	30	4	8	7	7
25	18	3	0	11	7	2	1	0	14	15	22	12	0	8	14	9	12	1	0	0	2	0	0	0	6
26	0	0	0	0	0	1	0	1	6	8	11	8	0	5	9	11	11	0	0	0	0	0	0	1	3
27	1	0	0	0	0	0	0	4	0	5	2	0	0	0	1	0	0	0	0	2	1	0	0	1	1
28	1	0	0	1	0	0	2	0	0	1	0	0	0	0	1	2	0	0	0	0	0	1	10	16	1
29	19	7	18	15	9	9	14	9	8	1	0	0	1	0	2	0	0	1	0	2	1	2	2	6	5
30	2	6	20	20	17	21	22	22	17	23	19	11	0	5	10	4	5	7	1	2	0	2	2	4	10
31	1	M	3	5	3	7	9	3	2	0	1	0	0	0	2	3	6	5	8	7	10	6	1	0	4

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
5	2	5		2	15	21	25	30	0	-	46	0	-	18	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	1	1	1	1	1	1	2	3	2	3	4	5	3	2	4	2	5	3	1	1	2	4	2	1	2
2	0	1	1	0	1	2	1	0	1	3	0	3	4	3	2	0	0	1	2	1	0	0	0	2	1
3	2	2	0	0	0	0	0	0	0	0	0	2	1	1	2	2	0	0	0	0	0	0	0	1	1
4	0	1	2	2	0	0	0	1	1	1	1	1	3	3	3	2	3	8	14	6	5	5	5	7	3
5	6	6	4	4	3	3	5	6	6	6	7	5	4	8	10	6	7	9	6	3	2	0	1	1	5
6	1	2	4	3	5	10	9	13	21	15	14	9	4	5	8	11	8	10	6	7	6	5	5	4	8
7	5	2	1	3	3	2	2	4	5	4	3	5	5	6	1	2	0	0	1	2	3	5	4	1	3
8	0	2	1	0	0	0	0	0	0	0	0	0	1	6	1	4	4	1	0	0	0	0	0	1	1
9	0	0	1	2	1	0	0	3	3	9	10	8	3	14	15	11	6	2	0	0	0	0	0	1	4
10	1	1	1	1	2	2	3	7	11	16	21	25	19	8	6	6	6	6	1	1	3	4	4	5	7
11	5	2	4	4	5	7	8	13	8	5	5	6	5	2	1	1	2	1	2	8	7	5	3	1	5
12	3	3	3	4	2	3	6	7	15	15	7	7	3	4	8	9	7	14	7	20	17	10	11	9	8
13	10	8	6	3	3	4	6	17	15	2	1	0	1	0	1	1	0	0	0	0	0	1	3	5	4
14	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	1	1	1	0	1	2	1	0	2	1	0	1	0	0	0	0
16	0	0	0	0	0	0	0	0	0	1	0	1	1	2	2	1	2	1	0	0	0	1	1	1	1
17	0	0	0	0	0	0	0	0	0	1	1	1	3	2	2	2	3	1	1	1	1	0	0	0	1
18	0	0	0	0	0	1	0	0	0	1	0	2	1	2	2	0	0	0	0	1	3	2	1	1	1
19	0	1	1	1	0	0	0	0	1	2	0	1	1	0	1	4	4	3	0	1	2	3	4	3	1
20	2	2	2	2	1	3	5	7	9	12	9	14	14	27	24	15	14	8	4	6	5	5	5	9	9
21	9	8	8	10	10	10	8	8	12	20	19	13	11	23	25	27	16	14	17	19	23	21	19	18	15
22	17	7	5	1	2	3	4	4	9	12	20	16	7	22	27	19	7	3	2	2	2	2	1	1	8
23	0	1	1	1	0	1	0	0	0	2	4	1	3	2	10	9	4	3	0	0	0	0	0	1	2
24	0	0	0	0	0	0	0	0	0	1	4	3	0	2	3	0	1	1	0	0	0	0	0	0	1
25	0	0	0	0	0	1	4	5	3	2	4	5	7	4	5	2	2	1	1	2	2	1	3	3	2
26	1	4	1	2	2	3	5	12	20	13	14	7	4	3	5	3	1	2	2	6	7	10	9	9	6
27	10	13	13	11	9	8	9	11	13	9	12	6	6	6	8	10	5	1	0	2	2	2	2	3	7
28	1	3	3	2	2	2	3	6	8	10	7	8	3	22	21	14	7	1	0	1	1	2	1	1	5
29	1	2	1	2	3	4	6	7	8	12	16	D	D	D	19	12	3	0	1	2	1	1	2	2	5
30	1	1	0	0	0	0	0	0	0	1	3	3	2	1	1	3	2	1	2	2	2	3	2	1	1
31	1	2	1	0	2	1	1	3	2	5	6	11	12	11	3	0	1	1	2	0	1	2	2	2	3

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->					STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
3	2	4		2	10	15	20	23	0	-	27	0	-	15	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH:AUGUST

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	0	1	2	2	3	4	9	5	1	3	7	4	7	3	8	4	10	6	1	7	7	15	5	1	5
2	5	7	10	2	7	10	2	2	6	5	2	7	6	4	4	0	2	3	7	4	1	1	0	4	4
3	9	7	0	0	0	0	0	1	0	3	2	1	0	1	2	4	2	3	1	3	3	7	9	1	2
4	1	5	7	10	1	0	0	0	0	0	0	0	0	0	0	0	0	2	20	11	7	4	2	28	4
5	18	41	36	34	22	17	26	16	7	7	7	6	6	9	10	6	6	11	9	5	0	0	0	1	13
6	17	19	30	30	27	21	28	24	22	18	11	6	1	1	1	3	2	4	7	11	5	6	8	6	13
7	14	2	0	4	3	1	1	3	2	1	0	2	1	4	0	0	0	4	0	10	13	17	12	1	4
8	1	2	0	0	0	0	0	0	0	0	0	0	0	7	1	5	3	1	1	0	0	0	0	0	1
9	0	1	3	4	8	3	5	12	11	17	22	17	5	28	28	25	10	2	4	2	0	0	1	17	9
10	16	10	10	8	9	10	11	22	19	20	23	20	12	9	6	10	10	8	3	1	2	6	4	6	11
11	5	0	3	4	5	27	31	22	8	15	15	22	5	0	0	0	0	0	3	7	6	2	0	3	8
12	6	4	2	10	2	11	18	14	22	31	14	8	3	3	3	3	4	21	16	39	38	17	20	34	14
13	51	32	12	4	5	6	19	50	41	10	9	10	14	8	11	7	4	3	4	6	5	5	13	19	15
14	4	M	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	2	3	1	2	0	5	6	4	2	6	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	1	2	1	1	1	2	1	0	0	0	1	0	0	2	1	3	1
17	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	4	1	2	0	1	0	0	0	1
18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0
19	0	0	0	2	0	0	0	0	2	2	0	6	23	16	14	13	31	18	2	9	33	46	49	23	12
20	24	21	29	32	22	36	38	32	30	31	19	26	23	34	31	17	11	7	3	26	2	8	19	56	24
21	69	29	27	25	36	51	38	22	30	42	55	48	31	49	57	82	40	31	40	50	44	43	67	26	43
22	18	2	12	0	1	0	2	5	28	29	48	34	5	56	69	53	15	3	0	0	1	0	0	0	16
23	0	0	0	0	0	0	0	0	0	7	9	1	0	0	14	13	4	1	0	0	0	0	0	0	2
24	0	0	0	0	0	0	0	0	0	8	11	0	0	1	1	0	0	0	0	0	0	0	0	3	1
25	0	0	1	1	0	6	19	7	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	5	2
26	4	15	0	1	6	18	21	17	19	15	16	3	0	0	1	0	0	1	3	11	6	14	9	16	8
27	20	27	30	30	26	26	24	17	12	5	13	3	2	5	7	10	4	0	0	0	0	3	3	16	12
28	8	M	8	11	13	8	10	11	7	11	9	10	0	37	34	22	10	0	0	1	0	2	0	1	9
29	0	0	2	5	19	25	27	24	16	19	26	D	D	D	37	31	9	6	1	5	21	18	19	17	16
30	11	4	3	1	1	1	6	10	25	18	44	42	24	43	32	30	45	31	32	48	34	26	37	27	24
31	25	48	22	19	57	37	23	16	14	30	49	48	48	39	18	25	40	43	70	29	51	64	55	34	38

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN	GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA		ABOVE OBJECTIVE		
																1-HR	24-HR	
8	4	10		4	31	41	51	57	0	-	82	0	-	43	3	99	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	2	1	2	4	3	3	5	7	12	20	19	15	13	15	10	5	1	0	0	0	1	4	12	6	7
2	5	3	1	1	1	1	4	5	9	5	7	12	6	6	8	6	8	1	0	0	0	0	0	0	4
3	0	1	0	1	1	4	6	4	0	4	1	2	0	0	0	0	0	0	0	0	1	0	1	1	1
4	1	3	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	1	1	1	1	1
5	0	0	0	0	0	0	0	2	1	0	0	1	2	1	3	4	5	4	5	6	6	6	2	3	2
6	2	2	1	1	1	2	5	4	6	7	4	6	6	12	8	2	4	3	1	2	6	5	4	5	4
7	7	11	8	4	2	4	10	6	7	6	6	6	4	3	8	5	3	2	3	3	4	6	7	7	6
8	7	5	4	2	3	4	4	3	7	7	5	4	2	4	2	2	1	3	5	4	3	5	6	8	4
9	5	3	2	2	2	2	2	3	3	5	3	4	1	1	2	4	15	4	1	4	4	3	5	4	4
10	3	5	4	5	4	4	4	7	12	19	19	12	6	3	2	3	3	2	5	6	7	6	4	4	6
11	3	5	4	4	6	7	9	7	12	9	4	5	4	4	2	1	2	4	6	9	11	8	8	7	6
12	4	6	6	7	5	5	4	5	8	9	6	4	4	4	2	3	3	10	4	7	12	8	7	6	6
13	8	12	9	17	16	8	6	9	15	12	8	3	0	1	6	9	2	1	1	5	5	5	4	4	7
14	4	4	8	5	4	7	4	6	10	18	5	8	16	14	8	5	5	10	3	5	6	5	5	7	7
15	9	9	10	8	6	6	6	9	13	12	8	8	11	13	16	16	15	18	9	7	9	6	6	4	10
16	3	2	2	1	2	3	1	3	3	4	6	11	14	14	13	7	4	2	2	4	3	5	8	8	5
17	7	7	8	5	3	2	3	4	5	5	8	6	5	10	6	5	5	7	6	7	3	6	8	9	6
18	8	4	3	7	5	5	2	3	5	5	6	5	5	14	20	14	7	1	1	2	6	4	4	6	6
19	3	5	5	5	7	12	13	15	17	10	14	21	21	22	30	23	7	1	1	2	4	4	3	5	10
20	4	4	5	4	5	5	4	6	12	13	15	24	24	34	33	26	19	15	5	4	4	3	3	5	12
21	11	16	12	10	7	8	8	12	11	10	8	10	8	6	7	13	13	11	10	11	11	9	9	9	10
22	10	12	11	10	11	15	16	16	16	9	7	3	3	4	3	5	2	2	3	2	1	1	1	1	7
23	0	0	0	0	0	0	0	0	0	1	2	2	2	2	1	2	2	0	1	1	0	0	0	1	1
24	1	1	1	2	2	3	3	4	5	6	5	5	2	1	3	1	2	1	2	1	2	3	2	4	3
25	4	7	4	3	4	5	9	8	6	5	6	6	5	4	3	3	1	3	4	7	7	6	6	7	5
26	5	4	4	3	4	5	4	9	12	13	11	6	5	9	6	6	5	8	5	5	7	5	7	10	7
27	12	14	10	5	4	3	4	8	14	14	11	7	4	2	4	5	7	3	4	7	5	6	1	4	7
28	4	4	4	3	7	13	5	12	14	10	7	7	8	10	11	8	9	15	16	9	5	5	5	12	8
29	10	8	7	4	6	7	9	10	10	11	12	10	9	8	10	7	9	9	11	11	12	12	7	5	9
30	5	5	5	6	4	5	8	7	5	5	4	2	2	2	5	6	4	0	2	2	3	3	4	5	4

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
5	5	6		5	12	15	19	22	0	-	34	1	-	12	2	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 800 OR 24-HR OBJECTIVE 350

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

MONTH:SEPTEMBER

YEAR : 2013
UNIT : MICROGRAMS/CUBIC METER

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	MEAN
1	50	29	50	65	44	50	60	58	58	62	50	29	14	17	12	6	2	1	1	1	18	38	51	22	33
2	15	10	4	11	12	25	32	28	26	12	13	19	8	9	4	15	18	4	3	3	5	1	7	26	13
3	33	39	34	30	29	42	44	16	10	20	18	15	16	9	11	5	7	5	10	15	13	21	14	13	20
4	9	23	7	6	7	0	7	1	6	5	19	8	3	0	4	4	6	6	10	24	22	21	10	4	9
5	2	4	6	7	9	8	16	15	7	6	1	12	34	42	65	72	77	78	85	100	97	85	15	48	37
6	26	15	8	4	6	19	34	14	14	21	12	17	9	16	10	1	7	4	3	6	27	18	11	20	13
7	60	79	55	30	13	40	64	28	44	33	40	18	7	6	13	10	8	10	6	7	19	12	24	27	27
8	35	40	32	22	34	28	11	9	27	24	15	9	3	2	3	5	6	7	15	6	7	11	10	37	17
9	17	16	6	11	9	11	10	22	19	29	14	10	2	1	2	4	24	9	4	11	9	9	12	8	11
10	5	18	29	21	11	18	18	40	57	49	43	27	15	9	4	5	5	4	9	10	13	12	8	11	18
11	10	M	8	26	26	33	61	42	71	24	11	8	5	5	2	2	2	8	15	19	26	16	15	15	20
12	11	13	14	13	13	13	8	18	15	13	6	3	3	2	2	2	2	18	8	14	21	16	17	29	11
13	52	63	51	56	50	30	33	34	44	43	26	4	2	2	6	12	4	5	6	12	16	22	16	18	25
14	17	16	25	15	21	26	23	26	30	37	9	11	26	17	7	8	9	15	9	9	14	17	17	23	18
15	42	42	40	34	31	29	32	27	27	34	34	35	35	34	27	19	18	39	48	70	48	7	9	6	32
16	4	5	7	3	11	16	15	13	9	9	9	12	13	14	14	10	7	7	8	9	10	12	26	27	11
17	26	18	20	10	6	3	6	9	9	9	11	9	8	14	15	13	11	18	18	19	10	18	26	35	14
18	34	22	17	33	26	26	6	9	12	11	12	10	10	19	31	23	12	2	3	8	17	11	12	14	16
19	12	13	11	12	31	52	45	36	55	21	19	23	21	22	31	22	9	2	4	6	14	11	10	19	21
20	13	15	25	10	7	10	33	36	37	32	30	46	47	66	79	60	57	83	30	16	23	24	26	42	35
21	70	86	51	46	30	26	34	42	39	40	34	39	33	33	38	51	51	61	84	66	51	51	50	46	48
22	45	47	36	25	27	33	36	38	40	32	32	26	20	39	32	43	32	20	18	19	14	10	9	10	28
23	9	6	4	2	1	1	1	1	1	6	5	2	3	3	3	4	4	7	2	6	3	7	6	2	4
24	2	3	2	7	6	10	12	8	8	6	6	6	2	2	3	3	4	5	8	4	4	7	7	17	6
25	17	M	14	12	14	18	28	20	15	11	11	11	6	4	4	6	3	4	8	13	16	8	10	14	12
26	10	8	8	5	8	11	9	27	35	44	39	23	15	28	12	17	33	17	26	36	36	56	47	50	25
27	51	45	35	23	17	17	27	33	41	47	44	25	10	4	6	7	13	7	8	13	10	14	9	15	22
28	13	10	21	18	26	53	17	41	44	53	47	48	39	39	43	46	54	60	86	38	20	22	27	55	38
29	48	39	34	20	22	22	25	26	26	41	36	35	31	28	33	34	33	39	60	68	58	62	65	53	39
30	52	46	49	43	28	35	40	28	19	20	13	16	11	11	24	20	12	5	17	12	11	10	24	19	24

MONTHLY STATISTICS:

GEOM		ARITH		<-----PERCENTILE----->					<-----RANGE----->				STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN		50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	1-HR	24-HR		
15	16	22		16	47	57	70	82	0	-	100	4	-	48	3	100	0	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D : DYNAMIC CALIBRATION
T : TELEMETRY/DATALOGGR FAULT
M : MAINTENANCE OR ANALYZER FAULT
P : POWER FAILURE
2. BRACKETED READINGS EXCEED 1-HR OBJECTIVE 300 OR 24-HR OBJECTIVE 150

Appendix C Summary Results on Water Quality Monitoring

LAMMA POWER STATION FGD WASTEWATER TREATMENT PLANT EFFLUENT DISCHARGE TO ASH LAGOON SUSPENDED SOLIDS AND PH

Period : July – September 2013

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
06/07/13	1*	13	13	13	8.1	8.1	8.1
13/07/13	4*	16	11	13	8.3	8.0	8.2
20/07/13	5*	16	11	14	8.3	8.1	8.2
27/07/13	7	16	11	13	8.2	8.0	8.1
03/08/13	4*	21	16	19	8.3	8.1	8.2
10/08/13	7	15	12	14	8.2	8.1	8.1
17/08/13	5*	16	11	14	8.3	8.0	8.2
24/08/13	6*	16	11	13	8.4	8.1	8.2
31/08/13	0*	N/A	N/A	N/A	N/A	N/A	N/A
07/09/13	6*	17	12	14	8.3	8.1	8.2
14/09/13	4*	12	11	12	8.3	8.1	8.2
21/09/13	7	17	11	13	8.3	8.1	8.1
28/09/13	6*	14	11	12	8.2	8.1	8.2

Remark :

* - No sampling for the remaining day(s) of the week / no sampling due to no discharge

**LAMMA POWER STATION
FGD WASTEWATER TREATMENT PLANT
EFFLUENT DISCHARGE TO ASH LAGOON
TRACE METAL, TOTAL PHOSPHORUS
AND TOTAL NITROGEN ANALYSIS**

Period : July – September 2013

Sampling date		10/7/2013	19/8/2013	11/9/2013
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	<1	<1	<1
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	22	21	44
Cyanide,	mg/L	<0.01	<0.01	0.01

Remark:

According to the WPCO Ash Lagoon Discharge Licence, contents at exact levels of trace metals below 1/10 th of the WPCO Licence permitted limits will not be reported. When the concentration of a metal exceeds 1/10 th of the limit, the exact value of the metal concentration will be reported.

Appendix D Summary of EMIS

EM&A Log Ref.	Mitigation Measures	Implementation Status
	GENERAL	
A1	No other process, except the Wet Limestone-Gypsum process used in the FGD plants of the coal-fired Units L6, L7 and L8 within the Lamma Power Station, shall be used in the FGD plants for the projects unless otherwise agreed by EPD.	Complied
	WATER QUALITY	
B1	All wastewater arising from the operation of the projects shall be collected and directed to the existing wastewater treatment plant within the Lamma Power Station for treatment.	Complied
B2	The operational plant effluent from the FGD plants should be reused as much as possible in order to minimise discharge to the WWTP.	Complied
B3	Maintenance of the WWTP should be performed regularly to ensure the effluent from the WWTP would not exceed the current requirements stipulated in the WPCO licence for Ash Lagoon.	Complied
	WASTE	
C1	No gypsum or sludge arising from the operation of the projects shall be disposed of anywhere. All gypsum and sludge shall be collected and reused.	Complied
	NOISE	
D1	Equipments including the Absorber Recirculation Pump, Oxidation Air Blower, Booster Fan and Booster Fan Motor of the FGD plants shall be acoustically insulated and the Gas-Gas Heater (untreated side) of the FGD plants shall be provided with reinforced lagging to reduce the noise impact.	Complied