

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



**Lamma Power Station
Units L4 & L5 Flue Gas Desulphurization Plant
Retrofit
Operational Phase
Quarterly Environmental Monitoring & Audit Report
October – December 2009**

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



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMIT NO. EP-248/2006

**LAMMA POWER STATION
UNITS L4 & L5 FLUE GAS DESULPHURIZATION PLANT RETROFIT**

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


| | |
|--------------|--|
| Report Title | Quarterly EM&A Report (October to December 2009) |
| Date | 9 March 2010 |
| Certified by |  (Mr. IP Tat-Yan, Environmental Team Leader) |

TABLE OF CONTENT

EXECUTIVE SUMMARY

| | | |
|-----------|--|-----------|
| 1. | INTRODUCTION..... | 1 |
| 1.1 | Background | 1 |
| 1.2 | Project Organisation | 2 |
| 1.3 | Plant Availability during the Reporting Period | 2 |
| 1.4 | Malfunction/Outage Records of Pollution Control Equipment | 2 |
| 1.5 | Summary of EM&A Requirements | 3 |
| 2. | AIR QUALITY..... | 9 |
| 2.1 | Monitoring Requirements | 9 |
| 2.2 | Summary of Results and Observations | 9 |
| 3. | WATER QUALITY..... | 10 |
| 3.1 | Monitoring Requirements | 10 |
| 3.2 | Summary of Results and Observations | 10 |
| 4. | ENVIRONMENTAL AUDIT..... | 12 |
| 4.1 | Review of Environmental Monitoring Procedures | 12 |
| 4.2 | Assessment of Environmental Monitoring Results | 12 |
| 4.3 | Status of Environmental Licensing and Permitting | 14 |
| 4.4 | Implementation Status of Environmental Mitigation Measures | 14 |
| 4.5 | Implementation Status of Event/Action Plan | 14 |
| 4.6 | Implementation Status of Environmental Complaint Handling Procedures | 14 |
| 5. | FUTURE KEY ISSUES..... | 16 |
| 5.1 | Outage Plan for the coming 3 months | 16 |
| 5.2 | Key issues for the coming 3 months | 16 |
| 6. | CONCLUSION..... | 17 |

LIST OF TABLES

| | |
|-----------|--|
| Table 2.1 | Air Quality Monitoring Parameters and Frequency |
| Table 3.1 | Water Quality Monitoring Parameters and Frequencies |
| Table 4.1 | Summary of Action/Limit Level Exceedances on Monitoring Parameters |
| Table 4.2 | Amount of Gypsum and Sludge Collected for Reuse by Contractor |
| Table 4.3 | Summary of Environmental Licensing and Permit Status |
| Table 4.4 | Environmental Complaints / Enquiries Received |
| Table 4.4 | Outstanding Environmental Complaints / Enquiries Carried Over |

LIST OF FIGURES

- Figure 1.1 Location of New Facilities for L4 & L5 FGD Plant
- Figure 1.2 General Arrangement of L4 & L5 FGD Plant
- Figure 1.3 Schematic Diagram of L4 & L5 FGD Plant
- Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant
- Figure 1.5 Organization Chart at Operational Phase

APPENDIX

- Appendix A Event/Action Plans in Response to Exceedance of AL Levels
- Appendix B Air Quality Monitoring Results
- Appendix C Summary Results on Water Quality Monitoring
- Appendix D Summary of EMIS

EXECUTIVE SUMMARY

The operational phase of Lamma Unit L5 Flue Gas Desulphurization Plant (FGD) commenced in July 2009 following the completion of erection works and commissioning tests. This is the second quarterly Environmental Monitoring and Audit (EM&A) report for the Project “Lamma Power Station Units L4 & L5 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 project in the period from October to December 2009.

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

Unit L5 was fully available in the reporting period.

Malfunction/Outage Records of Pollution Control Equipment

| Equipment | Period | Cause | Actions Taken |
|-----------|---------------------------|-------------------------------------|--|
| L5 FGD | 17/10/2009 03:26 to 03:30 | Routine checking of bypass dampers. | Informed EPD by letter dated 19/10/2009. |
| L5 FGD | 29/10/2009 20:35 to 21:14 | Defect rectification | Informed EPD by letter dated 02/11/2009. |
| L5 FGD | 31/10/2009 03:40 to 03:54 | Routine checking of bypass dampers. | Informed EPD by letter dated 02/11/2009. |
| L5 FGD | 07/11/2009 02:33 to 02:43 | Routine checking of bypass dampers. | Informed EPD by letter dated 09/11/2009. |
| L5 FGD | 14/11/2009 01:48 to 01:53 | Routine checking of bypass dampers. | Informed EPD by letter dated 16/11/2009. |
| L5 FGD | 21/10/2009 00:34 to 00:49 | Routine checking of bypass dampers. | Informed EPD by letter dated 23/11/2009. |
| L5 FGD | 28/11/2009 02:13 to 02:21 | Routine checking of bypass dampers. | Informed EPD by letter dated 30/11/2009. |
| L5 FGD | 05/12/2009 02:44 to 02:47 | Routine checking of bypass dampers. | Informed EPD by letter dated 08/12/2009. |
| L5 FGD | 20/12/2009 01:20 to 01:26 | Routine checking of bypass dampers. | Informed EPD by letter dated 22/12/2009. |

Environmental Monitoring Works

Environmental monitoring works were performed during the operation of Unit L5 FGD Plant 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 | EP-248/2006 | 25/04/2006 | - | HK Electric | 25/04/2006 |
| Specified Processes Licence issued under APCO | L-7-002(7) | 01/01/2009 | 31/12/2010 | HK Electric | 31/12/2008 |
| WPCO discharge licence for Ash Lagoon | EP890/W2/XD018 | 16/04/2007 | 31/12/2011 | HK Electric | 16/04/2007 |

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints

During the reporting period, there was one (1) enquiry from EPD concerning “abnormal emission from Lamma P/S’ large chimneys”. Yet no abnormality that might have caused the alleged “abnormal emission” was identified. There was no further enquiry and the case was closed.

Future key issues

Key issues to be considered in the coming months include:

Air Impact

- To continuously carry out the air quality monitoring for Unit L5.

Water Impact

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

Concluding Remarks

The environmental performance of the project was generally satisfactory.

1. INTRODUCTION

The operational phase of Lamma L5 FGD Plant commenced in July 2009 following the completion of erection works and commissioning tests. 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 Desulphurization Plant Retrofit Project” under the requirements of Clause 2.18 of Environmental Permit (EP) No. EP-248/2006.

This report summarizes the environmental monitoring and audit work for the Project for the period from October to December 2009.

1.1 Background

The Project involves retrofitting the two existing 350MW coal-fired generating Units L4 and L5 of Lamma Power Station with Flue Gas Desulphurisation (FGD) plant for reducing sulphur dioxide emissions in support of Government policy to improve the air quality of the Pearl River Delta.

The Project includes the installation and operation of FGD plants with flue gas desulphurization efficiency of 90% for the two 350MW coal-fired Units 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 1.1, Figure 1.2 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 Plant retrofit project for Units L4 and L5 includes:

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

1.2 Project Organisation

The management structure to oversee the Project 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

Unit L5 was fully available in the reporting period.

1.4 Malfunction/Outage Records of Pollution Control Equipment

| Equipment | Period | Cause | Actions Taken |
|-----------|------------------------------|--|---|
| L5 FGD | 17/10/2009 03:26 to 03:30 | Routine checking of bypass dampers. | Informed EPD by letter dated 19/10/2009. |
| L5 FGD | 29/10/2009 20:35 to 21:14 | Defect rectification | Informed EPD by letter dated 02/11/2009. |
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| L5 FGD | 14/11/2009 01:48 to 01:53 | Routine checking of bypass dampers. | Informed EPD by letter dated 16/11/2009. |
| L5 FGD | 21/10/2009 00:34 to 00:49 | Routine checking of bypass dampers. | Informed EPD by letter dated 23/11/2009. |
| L5 FGD | 28/11/2009 02:13 to 02:21 | Routine checking of bypass dampers. | Informed EPD by letter dated 30/11/2009. |
| L5 FGD | 05/12/2009 02:44 to 02:47 | Routine checking of bypass dampers. | Informed EPD by letter dated 08/12/2009. |
| L5 FGD | 20/12/2009 01:20 to 01:26 | Routine checking of bypass dampers. | Informed EPD by letter dated 22/12/2009. |

1.5 Summary of EM&A Requirements

Environmental Monitoring and Audit (EM&A) requirements have been discussed in the Environmental Impact Assessment (EIA) Report for the Project. The assessment results indicate that environmental monitoring work required for the EM&A programmes of this Project is 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 this Project 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 Project;
- The implementation status of environmental protection and pollution control / mitigation measures.

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

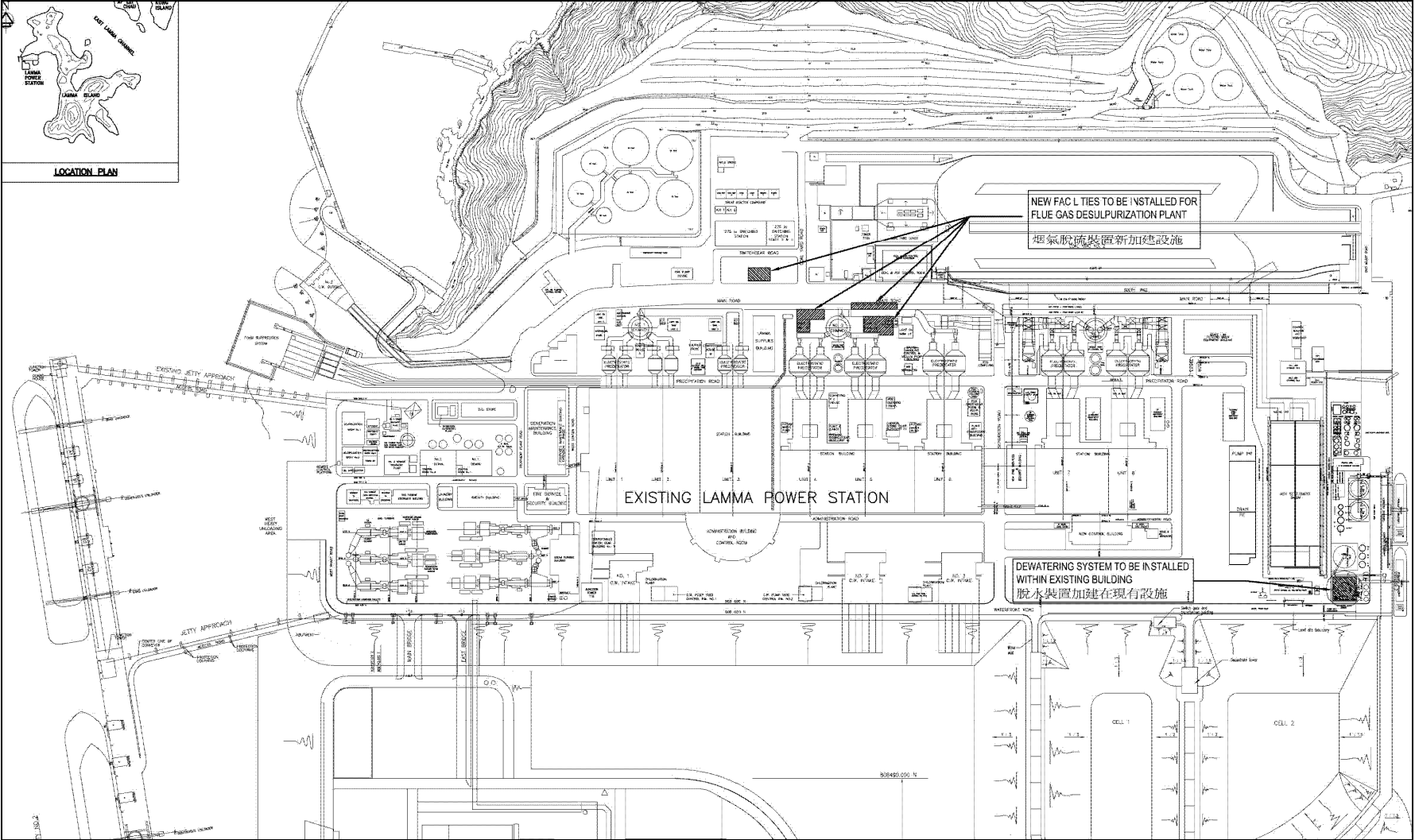


Figure 1.1 Location of New Facilities for L4 & L5 FGD Plant

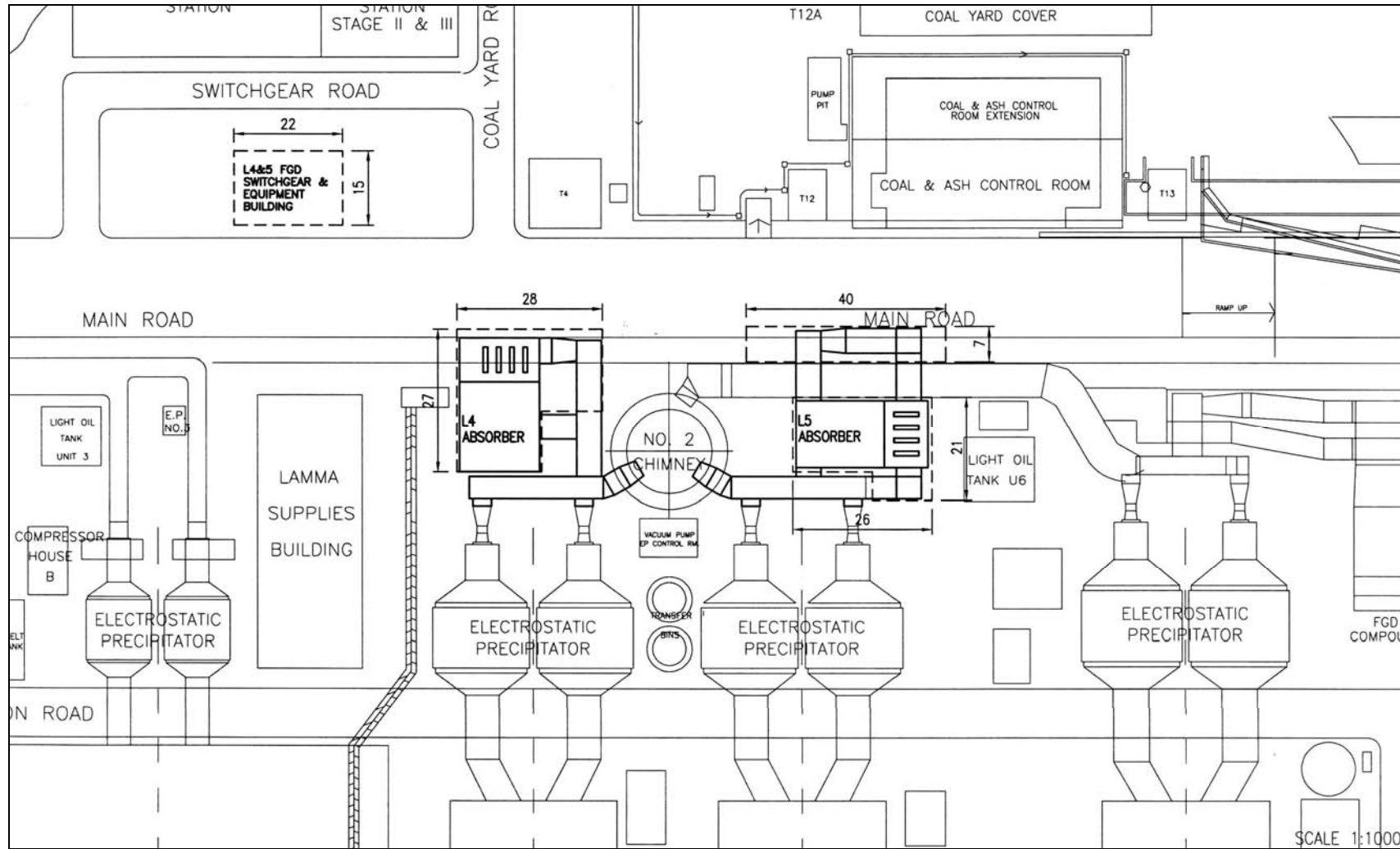


Figure 1.2 General Arrangement of L4 & L5 FGD Plant

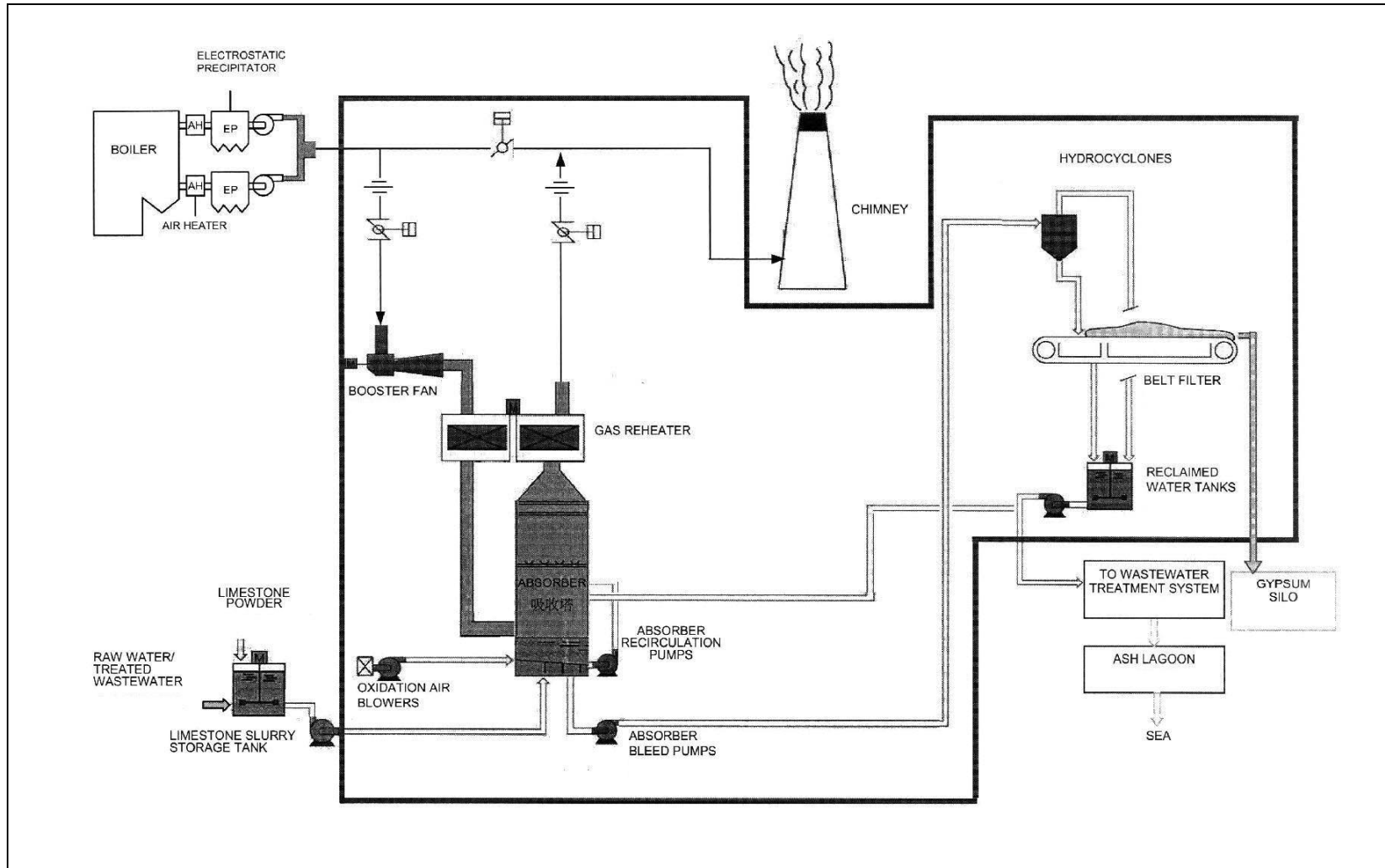


Figure 1.3 Schematic Diagram of the L4 & L5 FGD Plant

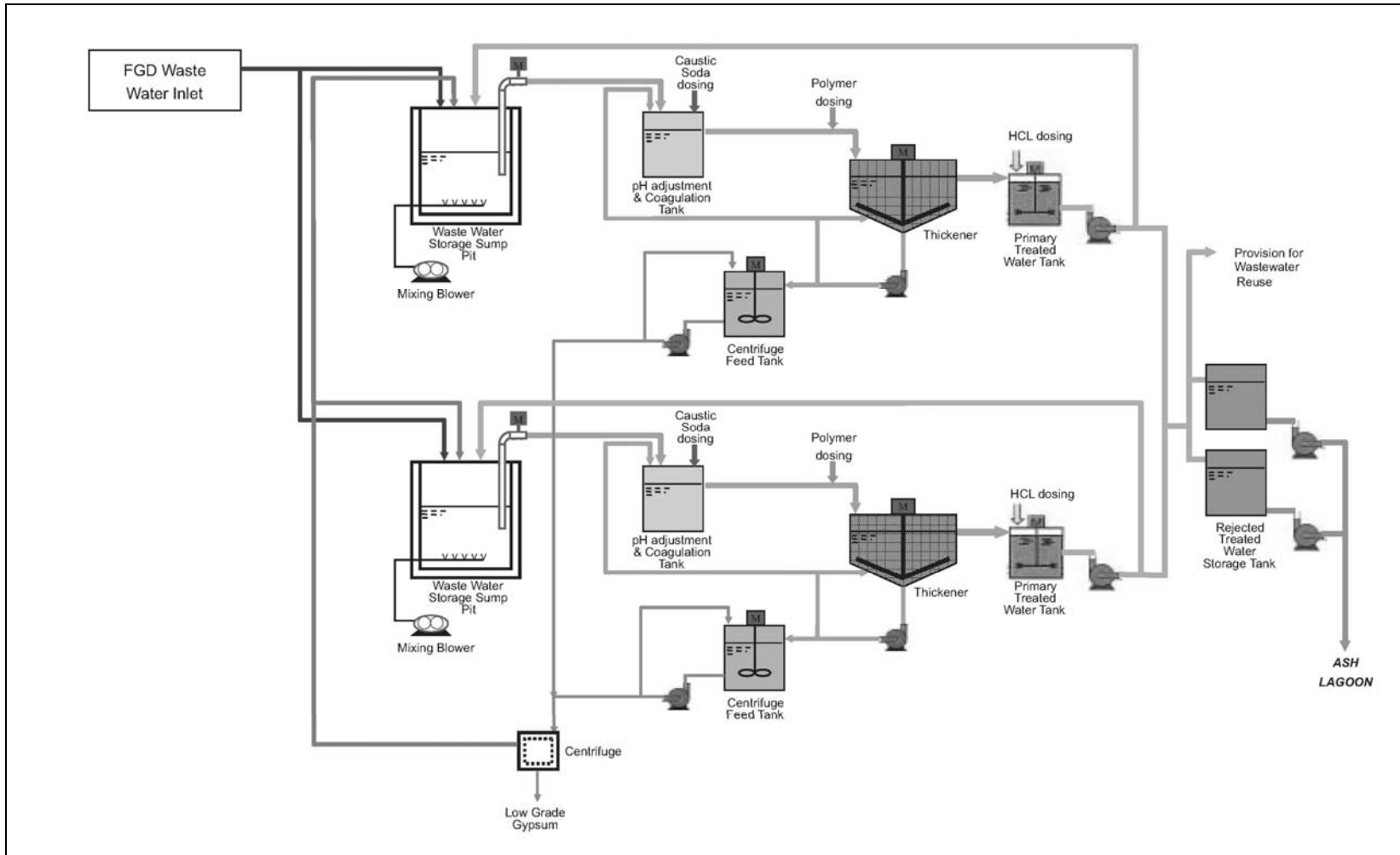


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

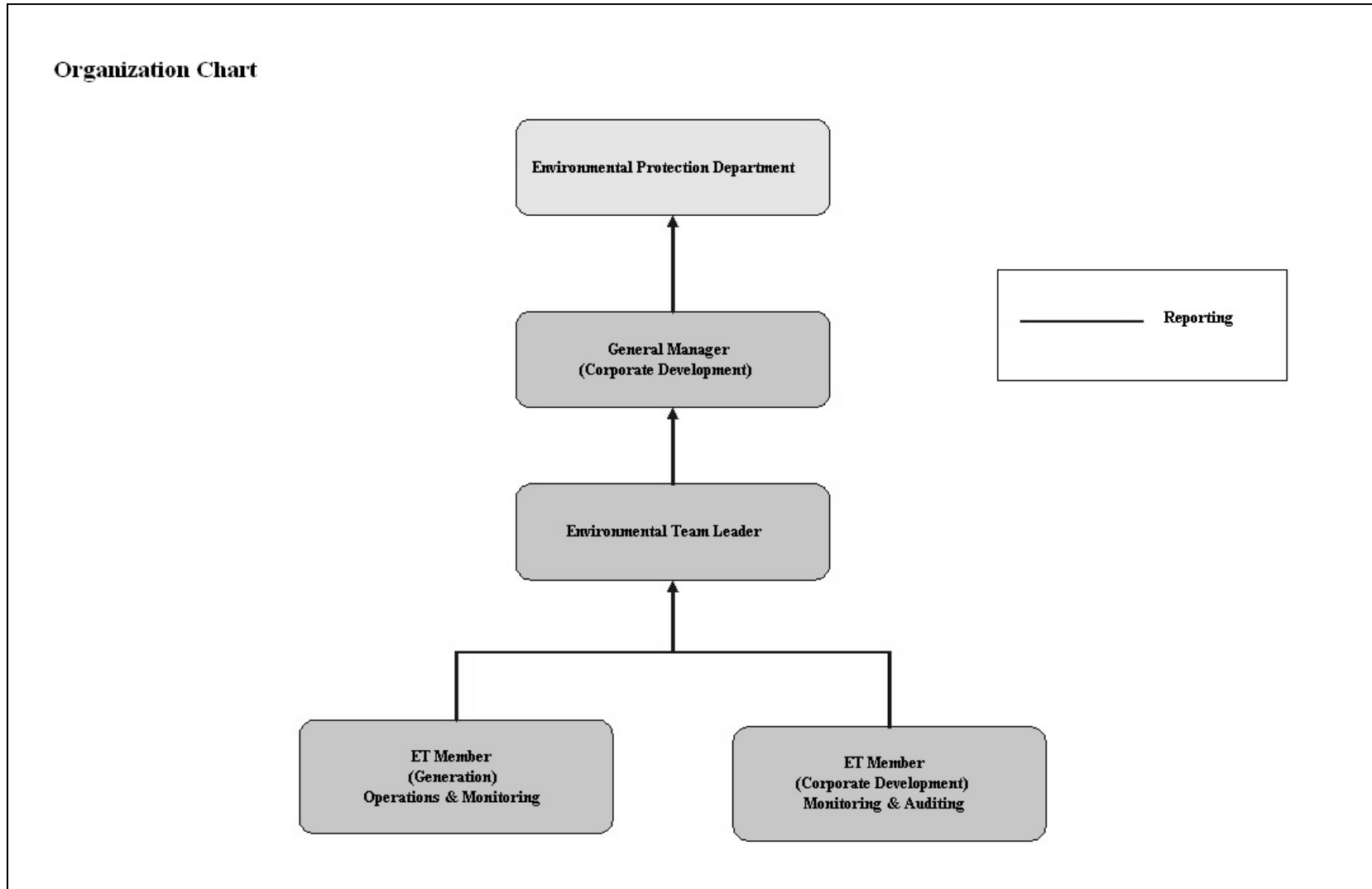


Figure 1.5 Organization Structure at Operational Phase of the Project

2. AIR QUALITY

2.1 Monitoring Requirements

Since the Project 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 specific 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 boiler L5 | Particulate | Once / year |
| | Particulate (Opacity) | Continuous |
| | SO ₂ | Continuous |
| | NO _x expressed as NO ₂ | 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 were conducted during the operation of Unit 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 for the Project, the current monitoring programme for the Lamma Power Station can cover the Project 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 were 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. | 01/10/09-31/12/09 | N.A. | 0 | |
| 2 | Continuous monitoring of opacity, NOx, SO2 and CO2 in the flue gas at the chimney stacks | 01/10/09-31/12/09 | 0 | 0 | |
| 3 | TSP monitoring at Lamma Power Station Boundary (ie East Gate and Reservoir). | 01/10/09-31/12/09 | 0 | 0 | |
| 4 | Ambient SO2 & NOx monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and | 01/10/09-31/12/09 | 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 | 01/10/09-31/12/09 | 0 | 0 | |
| 2 | Suspended Solids in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 3 | Iron in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 4 | Barium in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 5 | Mercury in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 6 | Cadmium in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 7 | Cyanide in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 8 | Total Phosphorus in WWTP Effluent | 01/10/09-31/12/09 | 0 | 0 | |
| 9 | Total Nitrogen in WWTP Effluent | 01/10/09-31/12/09 | 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 |
|---------------|----------------------------|----------------------------|
| October 2009 | 5,201.5 MT | 55.8 MT |
| November 2009 | 6,335.6 MT | 9.1 MT |
| December 2009 | 5,168.3 MT | 5.8 MT |

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of December 2009 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 | EP-248/2006 | 25/04/2006 | - | Valid |
| Specified Processes Licence issued under APCO | L-7-002(7) | 01/01/2009 | 31/12/2010 | Valid |
| WPCO discharge licence for Ash Lagoon | EP890/W2/XD018 | 16/04/2007 | 31/12/2011 | Valid |

4.4 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the EIA Report and EP are required to be implemented. An updated 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 one (1) enquiry from EPD concerning “abnormal emission from Lamma P/S’ large chimneys” as summarized in Table 4.4.

Table 4.4 Environmental Complaints / Enquiries Received

| Case Reference / Date, Time Received / Date, Time Concerned | Descriptions / Actions Taken | Conclusion / Status |
|---|---|---|
| <p><i>Reference:</i> EC091200158</p> <p><i>Received on:</i> 10/12/2009 a.m.</p> <p><i>Concerned about:</i> “Abnormal emission from Lamma P/S’ large chimneys”</p> | <p>EPD verbally informed HK Electric that the Department had received complaint(s) against “abnormal emission from Lamma P/S’ large chimneys” in a morning a few days before. After investigation, HK Electric found no abnormality that might have caused the alleged “abnormal emission”. HK Electric has also provided relevant monitoring and operations data to EPD for reference as requested. There was no further enquiry since then.</p> | <p>Nothing abnormal was identified. There was no further enquiry and the case was closed.</p> |

Table 4.4 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

No major outage planned for the next 3 months.

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 Unit 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 October to December 2009. 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. There was one (1) enquiry from EPD concerning “abnormal emission from Lamma P/S’ large chimneys”. Yet no abnormality that might have caused the alleged “abnormal emission” was identified. No prosecution was received for this Project in the reporting period.

The environmental performance of the Project 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 boiler L5 | Particulate | once/year | 85 mg/Nm ³ | - | 85 | 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 | 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: Fourth Quarter of 2009 (October - December)

| 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. (%) |
| 01/10/2009 | 39 | 32 | 15.3 | 020 | 80 |
| 07/10/2009 | 85 | 74 | 11.5 | 110 | 70 |
| 13/10/2009 | 33 | 34 | 31.8 | 090 | 78 |
| 19/10/2009 | 102 | 89 | 34.3 | 080 | 83 |
| 25/10/2009 | 73 | 64 | 10.9 | 150 | 77 |
| 31/10/2009 | 79 | 69 | 21.0 | 070 | 68 |
| 06/11/2009 | 55 | 49 | 20.3 | 070 | 79 |
| 12/11/2009 | 49 | 50 | 20.0 | 170 | 82 |
| 18/11/2009 | 74 | 71 | 26.3 | 360 | 72 |
| 24/11/2009 | 64 | 68 | 11.8 | 030 | 78 |
| 30/11/2009 | 96 | 105 | 20.0 | 010 | 73 |
| 06/12/2009 | 92 | 92 | 35.3 | 080 | 71 |
| 12/12/2009 | 39 | 43 | 27.9 | 050 | 84 |
| 18/12/2009 | 71 | 78 | 26.4 | 360 | 76 |
| 24/12/2009 | 47 | 50 | 10.7 | 030 | 84 |
| 30/12/2009 | 39 | 39 | 22.0 | 030 | 93 |

TSP ($\mu\text{g}/\text{m}^3$)

Action Level -
 Limit Level 260

Calibration: Calibration at site as per attached

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

B.2 Unit L5 Stack Monitoring at Lamma Power Station

Monthly Summary of Stack NO_x and SO₂

| Date | Daily Maximum | | |
|------------|---|---|----------------|
| | SO ₂ concentration (mg/Nm ³)* | NO _x concentration (mg/Nm ³)* | Opacity (%) |
| 1/10/2009 | 26 | 384 | 15 |
| 2/10/2009 | 63 | 444 | 19 |
| 3/10/2009 | 26 | 379 | 15 |
| 4/10/2009 | 23 | 340 | 17 |
| 5/10/2009 | 37 | 328 | 18 |
| 6/10/2009 | 29 | 336 | 18 |
| 7/10/2009 | 16 | 373 | 17 |
| 8/10/2009 | 21 | 445 | 16 |
| 9/10/2009 | 18 | 494 | 16 |
| 10/10/2009 | 21 | 361 | 14 |
| 11/10/2009 | 19 | 438 | 13 |
| 12/10/2009 | 32 | 327 | 21 |
| 13/10/2009 | 28 | 349 | 16 |
| 14/10/2009 | 34 | 316 | 14 |
| 15/10/2009 | 25 | 333 | 14 |
| 16/10/2009 | 59 | 344 | 14 |
| 17/10/2009 | 56 | 290 | 13 |
| 18/10/2009 | 32 | 304 | 14 |
| 19/10/2009 | 60 | 331 | 15 |
| 20/10/2009 | 48 | 365 | 15 |
| 21/10/2009 | 73 | 336 | 16 |
| 22/10/2009 | 110 | 357 | 18 |
| 23/10/2009 | 118 | 351 | 20 |
| 24/10/2009 | 100 | 332 | 19 |
| 25/10/2009 | 81 | 322 | 20 |
| 26/10/2009 | 61 | 448 | 28 |
| 27/10/2009 | 86 | 397 | 17 |
| 28/10/2009 | 41 | 374 | 18 |
| 29/10/2009 | 172 | 403 | 18 |
| 30/10/2009 | 79 | 383 | 17 |
| 31/10/2009 | 29 | 463 | 20 |

| Date | Daily Maximum | | |
|------------|--------------------------------|--------------------------------|----------------|
| | SO2 concentration (mg/Nm3)* | NOx concentration (mg/Nm3)* | Opacity (%) |
| 1/11/2009 | 30 | 489 | 19 |
| 2/11/2009 | 43 | 349 | 19 |
| 3/11/2009 | 27 | 388 | 16 |
| 4/11/2009 | 21 | 376 | 16 |
| 5/11/2009 | 26 | 383 | 17 |
| 6/11/2009 | 29 | 388 | 17 |
| 7/11/2009 | 42 | 350 | 17 |
| 8/11/2009 | 48 | 399 | 17 |
| 9/11/2009 | 47 | 401 | 17 |
| 10/11/2009 | 84 | 409 | 18 |
| 11/11/2009 | 94 | 392 | 19 |
| 12/11/2009 | 51 | 361 | 18 |
| 13/11/2009 | 26 | 411 | 17 |
| 14/11/2009 | 21 | 331 | 17 |
| 15/11/2009 | 15 | 365 | 15 |
| 16/11/2009 | 32 | 355 | 16 |
| 17/11/2009 | 30 | 506 | 16 |
| 18/11/2009 | 22 | 403 | 16 |
| 19/11/2009 | 23 | 391 | 16 |
| 20/11/2009 | 14 | 366 | 16 |
| 21/11/2009 | 6 | 401 | 15 |
| 22/11/2009 | 4 | 419 | 15 |
| 23/11/2009 | 13 | 515 | 17 |
| 24/11/2009 | 38 | 462 | 19 |
| 25/11/2009 | 21 | 428 | 15 |
| 26/11/2009 | 21 | 453 | 15 |
| 27/11/2009 | 29 | 427 | 22 |
| 28/11/2009 | 28 | 312 | 16 |
| 29/11/2009 | 19 | 329 | 15 |
| 30/11/2009 | 14 | 491 | 15 |

| Date | Daily Maximum | | |
|------------|--------------------------------|--------------------------------|----------------|
| | SO2 concentration (mg/Nm3)* | NOx concentration (mg/Nm3)* | Opacity (%) |
| 1/12/2009 | 5 | 404 | 15 |
| 2/12/2009 | 5 | 353 | 14 |
| 3/12/2009 | 10 | 299 | 16 |
| 4/12/2009 | 2 | 315 | 15 |
| 5/12/2009 | 4 | 362 | 13 |
| 6/12/2009 | 8 | 291 | 13 |
| 7/12/2009 | 0 | 290 | 13 |
| 8/12/2009 | 0 | 264 | 14 |
| 9/12/2009 | 3 | 292 | 13 |
| 10/12/2009 | 0 | 286 | 14 |
| 11/12/2009 | 1 | 236 | 13 |
| 12/12/2009 | 0 | 271 | 13 |
| 13/12/2009 | 0 | 267 | 13 |
| 14/12/2009 | 2 | 274 | 14 |
| 15/12/2009 | 1 | 248 | 13 |
| 16/12/2009 | 4 | 235 | 13 |
| 17/12/2009 | 2 | 324 | 14 |
| 18/12/2009 | 3 | 254 | 13 |
| 19/12/2009 | 3 | 251 | 12 |
| 20/12/2009 | 7 | 282 | 13 |
| 21/12/2009 | 4 | 280 | 13 |
| 22/12/2009 | 4 | 277 | 13 |
| 23/12/2009 | 4 | 344 | 13 |
| 24/12/2009 | 10 | 369 | 14 |
| 25/12/2009 | 16 | 317 | 14 |
| 26/12/2009 | 25 | 355 | 15 |
| 27/12/2009 | 13 | 309 | 14 |
| 28/12/2009 | 9 | 309 | 14 |
| 29/12/2009 | 13 | 346 | 13 |
| 30/12/2009 | 17 | 367 | 13 |
| 31/12/2009 | 15 | 352 | 13 |

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

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

STATION : VICTORIA PEAK
 POLLUTANT : SULPHUR DIOXIDE
 MONTH: OCTOBER
 YEAR : 2009
 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 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 6 | 7 | 8 | 9 | 5 | 5 | 5 | 10 | 15 | 10 | 9 | 10 | 13 | 12 | **** | 6 | 7 |
| 2 | 4 | 5 | 4 | 3 | 2 | 0 | 0 | 0 | 6 | 10 | 8 | 3 | 1 | 0 | 0 | 0 | 1 | 3 | 3 | 4 | 5 | 5 | **** | 7 | 3 |
| 3 | 5 | 7 | 7 | 8 | 10 | 13 | 11 | 11 | 8 | 7 | 5 | 2 | 3 | 5 | 9 | 11 | 10 | 13 | 53 | 58 | 20 | 13 | **** | 8 | 13 |
| 4 | 6 | 7 | 31 | 22 | 13 | 12 | 13 | 12 | 13 | 11 | 10 | 8 | 4 | 10 | 5 | 8 | 8 | 11 | 17 | 28 | 52 | 33 | **** | 32 | 16 |
| 5 | 26 | 24 | 21 | 22 | 22 | 21 | 22 | 24 | 23 | 21 | 5 | 4 | 3 | 4 | 13 | 8 | 6 | 13 | 11 | 12 | 12 | 12 | **** | 17 | 15 |
| 6 | 16 | 15 | 14 | 13 | 12 | 9 | 8 | 8 | 10 | 11 | 7 | 7 | 6 | 4 | 10 | 19 | 16 | 19 | 35 | 156 | 263 | 116 | **** | 35 | 35 |
| 7 | 22 | 10 | 8 | 6 | 10 | 11 | 9 | 10 | 44 | 43 | 30 | 23 | 23 | 30 | 14 | 14 | 18 | 26 | 29 | 31 | 29 | 18 | **** | 9 | 20 |
| 8 | 9 | 7 | 7 | 8 | 8 | 7 | 7 | 7 | 8 | 7 | 7 | 8 | 9 | 10 | 10 | 17 | 36 | 17 | 12 | 13 | 16 | 14 | **** | 13 | 11 |
| 9 | 13 | 13 | 14 | 13 | 13 | 12 | 12 | 14 | 17 | 24 | 20 | 26 | 26 | 31 | 14 | 23 | 20 | 23 | 29 | 45 | 32 | 15 | **** | 15 | 20 |
| 10 | 11 | 11 | 10 | 7 | 6 | 7 | 11 | 15 | 14 | 13 | 13 | 10 | 9 | 9 | 6 | 7 | 8 | 9 | 12 | 9 | 8 | 8 | **** | 4 | 9 |
| 11 | 3 | 4 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 7 | 6 | 5 | 5 | 4 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | **** | 2 | 3 |
| 12 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | **** | 4 | 3 |
| 13 | 3 | 3 | 2 | 3 | 3 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | **** | 4 | 2 |
| 14 | 3 | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 3 | 3 | 5 | 4 | 3 | 3 | 3 | 2 | **** | 3 | 3 |
| 15 | 2 | 2 | 3 | 4 | 4 | 4 | 6 | 5 | 8 | 12 | 10 | 4 | 4 | 3 | 7 | 3 | 3 | 6 | 6 | 5 | 3 | 3 | **** | 3 | 5 |
| 16 | 3 | 4 | 2 | 3 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 6 | 5 | 3 | 3 | 4 | 6 | 4 | 4 | 5 | 4 | 6 | **** | 4 | 4 |
| 17 | 5 | 3 | 3 | 3 | 4 | 5 | 4 | 8 | 18 | 12 | 11 | 10 | 9 | 9 | 8 | 7 | 5 | 6 | 6 | 6 | 7 | 12 | **** | 7 | 7 |
| 18 | 6 | 4 | 5 | 6 | 6 | 6 | 4 | 6 | 7 | 9 | 10 | 10 | 9 | 8 | 6 | 5 | 6 | 6 | 6 | 7 | 9 | 6 | **** | 7 | 7 |
| 19 | 5 | 4 | 2 | 2 | 4 | 4 | 4 | 6 | 5 | 5 | 4 | 5 | 5 | 3 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | **** | 1 | 3 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 1 | 1 | 2 | 1 | **** | 4 | 2 |
| 21 | 4 | 5 | 5 | 5 | 5 | 7 | 9 | 10 | 11 | 11 | 12 | 13 | 13 | 13 | 12 | 12 | 12 | 13 | 10 | 10 | 10 | 8 | **** | 7 | 10 |
| 22 | 7 | 6 | 5 | 6 | 8 | 8 | 8 | 8 | 21 | 18 | 10 | 20 | 32 | 30 | 40 | 46 | 117 | 33 | 22 | 27 | 32 | 52 | **** | 23 | 25 |
| 23 | 15 | 12 | 11 | 9 | 8 | 8 | 12 | 12 | 18 | 21 | 21 | 27 | 28 | 26 | 50 | 44 | 52 | 62 | 50 | 74 | 76 | 68 | **** | 80 | 34 |
| 24 | 84 | 72 | 96 | 38 | 13 | 9 | 9 | 9 | 10 | 10 | 9 | 13 | 17 | 25 | 42 | 64 | 62 | 41 | 44 | 52 | 81 | 73 | **** | 82 | 41 |
| 25 | 73 | 42 | 41 | 34 | 24 | 12 | 8 | 7 | 7 | 8 | 11 | 9 | 10 | 21 | 50 | 32 | 33 | 27 | 26 | 68 | 51 | 34 | **** | 30 | 29 |
| 26 | 42 | 48 | 42 | 23 | 12 | 9 | 9 | 7 | 6 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 11 | 14 | 10 | 11 | **** | 7 | 13 |
| 27 | 6 | 6 | 6 | 7 | 6 | 4 | 5 | 6 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 4 | 5 | 5 | 7 | 3 | **** | 4 | 5 |
| 28 | 3 | 4 | 6 | 5 | 3 | 3 | 3 | 4 | 4 | 5 | 7 | 6 | 5 | 3 | 4 | 4 | 4 | 5 | 7 | 7 | 7 | 4 | **** | 8 | 5 |
| 29 | 8 | 6 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 5 | 2 | 3 | 3 | 3 | 4 | 5 | 7 | 6 | 3 | **** | 6 | 5 |
| 30 | 6 | 3 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 6 | 3 | 6 | 4 | **** | 2 | 3 |
| 31 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 9 | 11 | 13 | 19 | 18 | 19 | 27 | 27 | 21 | 16 | **** | 14 | 10 |

MONTHLY STATISTICS:

| GEOM | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|----------------------|----|----|----|----|-----------------|-------|-----------|------------|---------|--------------|--|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 6 | 6 | 6 | 27 | 43 | 68 | 81 | 0 - | 263 | 3 | 96 | 0 | 0 | |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 : SULPHUR DIOXIDE
 MONTH: NOVEMBER
 YEAR : 2009
 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 | 16 | 13 | 8 | 8 | 7 | 7 | 9 | 9 | 9 | 10 | 11 | 10 | 7 | 7 | 5 | 6 | 8 | 8 | 7 | 8 | 10 | 12 | **** | 13 | 9 |
| 2 | 12 | 12 | 10 | 8 | 6 | 6 | 6 | 6 | 11 | 11 | 10 | 8 | 7 | 6 | 7 | 8 | 10 | 12 | 16 | 18 | 16 | 15 | **** | 14 | 10 |
| 3 | 14 | 14 | 15 | 14 | 13 | 13 | 13 | 14 | 16 | 17 | 19 | 18 | 19 | 19 | 16 | 16 | 16 | 19 | 19 | 24 | 21 | 19 | **** | 18 | 17 |
| 4 | 18 | 18 | 18 | 17 | 15 | 15 | 14 | 14 | 22 | 23 | 9 | 13 | 12 | 15 | 19 | 24 | 19 | 22 | 12 | 7 | 7 | 7 | **** | 4 | 15 |
| 5 | 4 | 3 | 3 | 4 | 7 | 6 | 6 | 7 | 13 | 12 | 10 | 8 | 8 | 13 | 16 | 21 | 18 | 14 | 22 | 53 | 67 | 29 | **** | 8 | 15 |
| 6 | 5 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 6 | 8 | 7 | 6 | 6 | 5 | 4 | 3 | 6 | 6 | 4 | 5 | 4 | 5 | **** | 5 | 4 |
| 7 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 1 | **** | 2 | 3 |
| 8 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 6 | 2 | 9 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | **** | 3 | 2 |
| 9 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | **** | 5 | 3 | |
| 10 | 5 | 16 | 11 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 178 | 65 | 12 | 5 | 9 | 448 | 105 | 10 | 9 | 7 | 6 | 6 | **** | 2 | 40 |
| 11 | 1 | 3 | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 5 | 5 | 4 | 4 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | **** | 3 | 3 |
| 12 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 3 | 5 | 3 | 3 | 4 | 4 | 5 | 12 | 11 | 27 | 46 | 31 | **** | 12 | 8 |
| 13 | 9 | 22 | 27 | 23 | 22 | 11 | 6 | 6 | 7 | 7 | 10 | 17 | 17 | 17 | 17 | 24 | 18 | 18 | 8 | 7 | 5 | 5 | **** | 7 | 13 |
| 14 | 7 | 6 | 7 | 11 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 9 | 7 | 8 | 8 | 11 | 10 | 10 | 11 | 9 | **** | 10 | 8 |
| 15 | 9 | 9 | 9 | 8 | 8 | 7 | 9 | 9 | 9 | 10 | 11 | 10 | 10 | 12 | 11 | 8 | 7 | 5 | 4 | 4 | 4 | 4 | **** | 4 | 8 |
| 16 | 3 | 2 | 2 | 4 | 4 | 5 | 6 | 4 | 3 | 4 | 5 | 4 | 4 | 6 | 6 | 9 | 11 | 12 | 10 | 13 | 4 | 5 | **** | 3 | 6 |
| 17 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 8 | 6 | 6 | 6 | 6 | 10 | 9 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | **** | 8 | 6 |
| 18 | 8 | 8 | 7 | 7 | 9 | 7 | 8 | 8 | 7 | 8 | 8 | 10 | 12 | 10 | 10 | 10 | 15 | 16 | 12 | 11 | 9 | 10 | **** | 10 | 10 |
| 19 | 7 | 6 | 4 | 4 | 4 | 10 | 7 | 8 | 9 | 10 | 10 | 15 | 22 | 38 | 37 | 33 | 33 | 40 | 51 | 27 | 15 | 15 | **** | 14 | 18 |
| 20 | 14 | 13 | 13 | 12 | 11 | 14 | 14 | 10 | 12 | 11 | 12 | 19 | 33 | 32 | 24 | 26 | 27 | 31 | 17 | 12 | 9 | 8 | **** | 7 | 17 |
| 21 | 7 | 8 | 7 | 7 | 8 | 9 | 9 | 10 | 12 | 15 | 17 | 23 | 18 | 16 | 20 | 21 | 19 | 18 | 26 | 28 | 24 | 20 | **** | 21 | 16 |
| 22 | 21 | 20 | 18 | 14 | 13 | 13 | 14 | 14 | 16 | 16 | 17 | 23 | 18 | 18 | 19 | 26 | 27 | 21 | 18 | 20 | 16 | 15 | **** | 14 | 18 |
| 23 | 12 | 14 | 11 | 10 | 12 | 14 | 11 | 11 | 11 | 12 | 10 | 7 | 5 | 4 | 4 | 10 | 30 | 36 | 7 | 5 | 6 | 6 | **** | 7 | 11 |
| 24 | 5 | 5 | 6 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 14 | 21 | 29 | 30 | 34 | 38 | 35 | 36 | 29 | 35 | 41 | 49 | **** | 22 | 21 |
| 25 | 10 | 6 | 5 | 4 | 3 | 4 | 4 | 5 | 7 | 8 | 9 | 10 | 9 | 8 | 9 | 8 | 9 | 8 | 8 | 9 | 9 | 10 | **** | 4 | 7 |
| 26 | 3 | 4 | 4 | 3 | 5 | 4 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | **** | 7 | 4 |
| 27 | 6 | 5 | 4 | 5 | 5 | 6 | 5 | 7 | 10 | 10 | 9 | 7 | 6 | 5 | 5 | 4 | 5 | 10 | 20 | 52 | 37 | 41 | **** | 12 | 12 |
| 28 | 10 | 13 | 7 | 7 | 4 | 3 | 3 | 2 | 3 | 6 | 6 | 5 | 6 | 5 | 4 | 4 | 3 | 3 | 3 | 4 | 5 | 3 | **** | 3 | 5 |
| 29 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 4 | 5 | 7 | 13 | 12 | 14 | 22 | 18 | 11 | 12 | 19 | 16 | 15 | 13 | 15 | **** | 11 | 10 |
| 30 | 11 | 10 | 10 | 10 | 9 | 9 | 8 | 10 | 13 | 16 | 18 | 17 | 15 | 16 | 14 | 16 | 15 | 20 | 15 | 14 | 11 | 10 | **** | 9 | 13 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD GEOM | PERCENT | NO. OF TIMES ABOVE OBJECTIVE | |
|------|--------|------------------------|----|----|----|----|-------------------|-------|-----------|------------|---------|------------------------------|--|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 7 | 8 | 8 | 20 | 27 | 38 | 52 | 0 | - 448 | 2 | 96 | 0 | 0 | |

- NOTES:
1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: NOVEMBER YEAR : 2009
POLLUTANT : NITROGEN DIOXIDE 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 | 57 | 43 | 25 | 23 | 16 | 26 | 29 | 38 | 44 | 61 | 50 | 36 | 49 | 44 | 36 | 55 | 74 | 75 | 49 | 52 | 51 | 50 | **** | 42 | 45 |
| 2 | 31 | 20 | 13 | 11 | 9 | 11 | 18 | 29 | 38 | 41 | 46 | 43 | 39 | 38 | 34 | 35 | 43 | 47 | 51 | 46 | 43 | 42 | **** | 32 | 33 |
| 3 | 25 | 17 | 11 | 10 | 8 | 8 | 16 | 27 | 47 | 61 | 54 | 37 | 33 | 42 | 46 | 51 | 53 | 60 | 66 | 93 | 96 | 87 | **** | 73 | 44 |
| 4 | 63 | 43 | 28 | 15 | 14 | 16 | 25 | 38 | 67 | 85 | 63 | 64 | 56 | 59 | 58 | 99 | 98 | 97 | 64 | 89 | 84 | 77 | **** | 44 | 59 |
| 5 | 36 | 25 | 27 | 16 | 12 | 12 | 19 | 45 | 63 | 76 | 73 | 74 | 72 | 69 | 81 | 91 | 72 | 112 | 134 | 185 | 184 | 152 | **** | 26 | 72 |
| 6 | 28 | 20 | 12 | 13 | 10 | 9 | 10 | 22 | 28 | 35 | 45 | 28 | 22 | 29 | 40 | 38 | 34 | 40 | 59 | 55 | 40 | 25 | **** | 47 | 30 |
| 7 | 17 | 12 | 10 | 5 | 5 | 3 | 4 | 13 | 20 | 18 | 21 | 25 | 21 | 26 | 24 | 30 | 29 | 32 | 30 | 25 | 30 | 9 | **** | 9 | 18 |
| 8 | 7 | 5 | 4 | 1 | 1 | 1 | 1 | 9 | 9 | 12 | 15 | 26 | 30 | 45 | 37 | 14 | 10 | 23 | 31 | 26 | 24 | 14 | **** | 8 | 15 |
| 9 | 5 | 3 | 0 | 1 | 0 | 0 | 3 | 9 | 11 | 12 | 14 | 7 | 18 | 13 | 15 | 21 | 26 | 26 | 21 | 20 | 19 | 16 | **** | 10 | 12 |
| 10 | 14 | 10 | 6 | 3 | 1 | 1 | 1 | 8 | 14 | 11 | 26 | 17 | 7 | 7 | 10 | 49 | 30 | 17 | 21 | 24 | 19 | 22 | **** | 10 | 14 |
| 11 | 12 | 6 | 5 | 7 | 5 | 7 | 14 | 16 | 15 | 17 | 18 | 17 | 12 | 8 | 12 | 12 | 12 | 11 | 10 | 4 | 6 | 5 | **** | 10 | 10 |
| 12 | 6 | 2 | 2 | 2 | 2 | 1 | 5 | 12 | 17 | 18 | 22 | 29 | 23 | 19 | 21 | 17 | 24 | 31 | 28 | 45 | 49 | 45 | **** | 47 | 20 |
| 13 | 43 | 34 | 32 | 30 | 29 | 27 | 26 | 27 | 25 | 28 | 27 | 33 | 38 | 36 | 40 | 49 | 50 | 57 | 45 | 38 | 29 | 34 | **** | 56 | 36 |
| 14 | 51 | 49 | 43 | 40 | 24 | 25 | 35 | 37 | 33 | 43 | 39 | 40 | 41 | 45 | 53 | 59 | 63 | 66 | 65 | 58 | 50 | 34 | **** | 25 | 44 |
| 15 | 25 | 20 | 16 | 15 | 13 | 12 | 11 | 19 | 17 | 20 | 24 | 22 | 24 | 24 | 24 | 21 | 17 | 14 | 11 | 9 | 8 | 7 | **** | 8 | 17 |
| 16 | 13 | 15 | 10 | 32 | 35 | 29 | 27 | 31 | 35 | 40 | 38 | 36 | 37 | 39 | 44 | 47 | 48 | 47 | 47 | 47 | 39 | 36 | **** | 23 | 35 |
| 17 | 27 | 21 | 18 | 12 | 11 | 12 | 21 | 19 | 36 | 34 | 29 | 29 | 30 | 33 | 34 | 40 | 43 | 45 | 42 | 42 | 36 | 40 | **** | 41 | 30 |
| 18 | 39 | 32 | 21 | 19 | 21 | 17 | 22 | 32 | 33 | 39 | 40 | 37 | 39 | 43 | 48 | 62 | 73 | 73 | 66 | 60 | 57 | 56 | **** | 49 | 42 |
| 19 | 37 | 36 | 17 | 12 | 4 | 18 | 11 | 22 | 32 | 38 | 40 | 50 | 57 | 70 | 73 | 72 | 88 | 123 | 119 | 93 | 74 | 79 | **** | 51 | 53 |
| 20 | 70 | 58 | 48 | 43 | 30 | 35 | 38 | 35 | 46 | 42 | 32 | 44 | 53 | 52 | 47 | 55 | 61 | 69 | 56 | 49 | 49 | 46 | **** | 55 | 48 |
| 21 | 54 | 36 | 28 | 22 | 19 | 21 | 19 | 34 | 44 | 49 | 52 | 54 | 53 | 57 | 68 | 61 | 67 | 79 | 88 | 98 | 101 | 91 | **** | 62 | 55 |
| 22 | 83 | 69 | 52 | 25 | 30 | 22 | 22 | 35 | 43 | 44 | 56 | 51 | 54 | 51 | 60 | 71 | 91 | 109 | 118 | 99 | 76 | 85 | **** | 69 | 61 |
| 23 | 69 | 46 | 14 | 13 | 17 | 16 | 19 | 27 | 36 | 45 | 44 | 34 | 35 | 30 | 41 | 41 | 72 | 122 | 82 | 116 | 117 | 69 | **** | 31 | 49 |
| 24 | 15 | 13 | 12 | 15 | 12 | 12 | 16 | 33 | 63 | 61 | 79 | 80 | 79 | 83 | 75 | 69 | 80 | 106 | 131 | 71 | 82 | 183 | **** | 136 | 65 |
| 25 | 43 | 27 | 12 | 11 | 10 | 11 | 15 | 33 | 35 | 50 | 47 | 45 | 46 | 48 | 52 | 70 | 83 | 103 | 61 | 28 | 39 | **** | 28 | 43 | |
| 26 | 19 | 12 | 9 | 8 | 7 | 5 | 8 | 21 | 24 | 33 | 31 | 31 | 33 | 24 | 20 | 32 | 29 | 38 | 36 | 34 | 27 | 19 | **** | 15 | 22 |
| 27 | 12 | 14 | 13 | 9 | 9 | 8 | 10 | 32 | 56 | 63 | 46 | 50 | 34 | 36 | 47 | 73 | 97 | 114 | 144 | 152 | 153 | 155 | **** | 49 | 60 |
| 28 | 19 | 15 | 15 | 10 | 6 | 4 | 5 | 9 | 15 | 16 | 15 | 18 | 15 | 17 | 19 | 27 | 39 | 43 | 52 | 56 | 51 | 30 | **** | 16 | 22 |
| 29 | 12 | 10 | 11 | 9 | 5 | 6 | 11 | 15 | 19 | 32 | 58 | 48 | 36 | 59 | 64 | 49 | 55 | 79 | 119 | 110 | 71 | 56 | **** | 46 | 43 |
| 30 | 40 | 25 | 18 | 14 | 12 | 12 | 21 | 44 | 65 | 90 | 95 | 84 | 73 | 65 | 58 | 56 | 71 | 109 | 131 | 141 | 93 | 54 | **** | 61 | 62 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | | <-----RANGE-----> | | | | STD GEOM | PERCENT | NO. OF TIMES | | | |
|------|--------|------------------------|----|----|----|-----|-----|-------------------|-------|-------|-----------|------------|---------|--------------|----|---|---|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | | | |
| 28 | 33 | 39 | 33 | 75 | 97 | 123 | 148 | 0 | - | 185 | 10 | - | 72 | 3 | 96 | 0 | 0 |

- NOTES:
1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: DECEMBER YEAR : 2009
POLLUTANT : SULPHUR DIOXIDE 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 | 15 | 8 | 6 | 8 | 8 | 8 | 8 | 8 | 13 | 18 | 11 | 12 | 11 | 13 | 31 | 29 | 17 | 8 | 7 | 6 | 8 | 10 | **** | 6 | 12 |
| 2 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 10 | 8 | 8 | 8 | 7 | 7 | 10 | 15 | 26 | 31 | 22 | 29 | 43 | 32 | 18 | **** | 11 | 14 |
| 3 | 7 | 5 | 5 | 5 | 7 | 12 | 14 | 14 | 21 | 24 | 21 | 22 | 20 | 19 | 17 | 9 | 8 | 12 | 24 | 31 | 23 | 22 | **** | 22 | 16 |
| 4 | 20 | 17 | 17 | 16 | 16 | 15 | 16 | 16 | 18 | 18 | 18 | 17 | 15 | 16 | 16 | 15 | 26 | 34 | 31 | 46 | 50 | 44 | **** | 39 | 23 |
| 5 | 53 | 51 | 35 | 24 | 31 | 34 | 27 | 24 | 17 | 16 | 16 | 14 | 16 | 21 | 19 | 19 | 17 | 12 | 12 | 13 | 14 | 15 | **** | 16 | 22 |
| 6 | 11 | 10 | 10 | 9 | 10 | 10 | 11 | 13 | 15 | 15 | 16 | 15 | 15 | 16 | 13 | 11 | 10 | 12 | 12 | 9 | 11 | 11 | **** | 6 | 12 |
| 7 | 6 | 6 | 6 | 7 | 7 | 9 | 10 | 10 | 8 | 6 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 4 | **** | 4 | 5 |
| 8 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | **** | 1 | 2 |
| 9 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | **** | 6 | 2 |
| 10 | 4 | 17 | 4 | 11 | 16 | 6 | 3 | 3 | 6 | 6 | 22 | 64 | 43 | 22 | 26 | 21 | 38 | 30 | 22 | 23 | 14 | 9 | **** | 6 | 18 |
| 11 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 4 | 5 | 3 | 3 | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | **** | 1 | 2 |
| 12 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | **** | 1 | 1 |
| 13 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 2 | 4 | 16 | 13 | 15 | 20 | 31 | 26 | 23 | 23 | 24 | 13 | **** | 11 | 10 |
| 14 | 10 | 10 | 8 | 6 | 5 | 6 | 6 | 7 | 9 | 7 | 4 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | **** | 2 | 4 |
| 15 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 4 | 4 | 3 | 3 | 3 | 4 | 10 | **** | 4 | 3 |
| 16 | 4 | 4 | 5 | 6 | 6 | 9 | 6 | 7 | 11 | 8 | 6 | 8 | 8 | 8 | 10 | 11 | 13 | 8 | 9 | 12 | 12 | 9 | **** | 9 | 8 |
| 17 | 9 | 8 | 9 | 13 | 9 | 6 | 9 | 7 | 7 | 4 | 4 | 4 | 4 | 5 | 6 | 7 | 6 | 5 | 9 | 11 | 7 | 7 | **** | 6 | 7 |
| 18 | 5 | 5 | 6 | 5 | 4 | 3 | 4 | 4 | 5 | 13 | 9 | 10 | 9 | 8 | 11 | 15 | 6 | 22 | 18 | 18 | 15 | 9 | **** | 7 | 9 |
| 19 | 9 | 12 | 15 | 16 | 17 | 12 | 20 | 32 | 18 | 11 | 12 | 11 | 13 | 14 | 14 | 22 | 24 | 19 | 20 | 19 | 19 | 19 | **** | 14 | 16 |
| 20 | 14 | 11 | 10 | 10 | 11 | 12 | 13 | 13 | 15 | 15 | 17 | 24 | 17 | 20 | 16 | 23 | 20 | 21 | 19 | 18 | 18 | 18 | **** | 18 | 16 |
| 21 | 18 | 16 | 13 | 12 | 12 | 12 | 11 | 12 | 14 | 14 | 16 | 16 | 14 | 11 | 10 | 12 | 13 | 11 | 11 | 9 | 10 | 10 | **** | 9 | 12 |
| 22 | 8 | 7 | 8 | 7 | 6 | 6 | 7 | 8 | 10 | 11 | 11 | 13 | 14 | 14 | 13 | 10 | 11 | 10 | 9 | 10 | 10 | 11 | **** | 8 | 10 |
| 23 | 7 | 7 | 7 | 8 | 8 | 8 | 10 | 11 | 10 | 8 | 9 | 8 | 8 | 5 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | **** | 3 | 6 |
| 24 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 11 | 11 | 18 | 16 | 15 | 13 | 16 | 23 | 20 | 13 | 3 | **** | 5 | 8 |
| 25 | 59 | 140 | 30 | 26 | 27 | 32 | 111 | 65 | 58 | 78 | 53 | 64 | 65 | 84 | 50 | 45 | 47 | 37 | 32 | 33 | 33 | 21 | **** | 12 | 52 |
| 26 | 13 | 14 | 14 | 11 | 10 | 11 | 10 | 10 | 12 | 12 | 9 | 10 | 11 | 13 | 13 | 11 | 12 | 12 | 12 | 14 | 13 | 12 | **** | 14 | 12 |
| 27 | 13 | 11 | 11 | 10 | 10 | 9 | 10 | 10 | 9 | 8 | 8 | 9 | 9 | 7 | 8 | 11 | 6 | 4 | 4 | 3 | 5 | 7 | **** | 9 | 8 |
| 28 | 10 | 9 | 9 | 9 | 8 | 8 | 8 | 11 | 11 | 10 | 11 | 12 | 12 | 11 | 12 | 13 | 11 | 12 | 10 | 6 | 6 | 6 | **** | 7 | 10 |
| 29 | 8 | 9 | 8 | 7 | 7 | 7 | 5 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | <----- D -----> | | | 4 | 3 | 3 | 3 | 3 | **** | 4 | 5 |
| 30 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | **** | 4 | 3 |
| 31 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 7 | 8 | 9 | 9 | 10 | 11 | 13 | 13 | 12 | **** | 11 | 7 |

MONTHLY STATISTICS:

| GEOM | ARITH | | -----PERCENTILE----- | | | | | -----RANGE----- | | | STD 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 | 8 | 11 | 8 | 22 | 31 | 49 | 62 | 0 | - | 140 | 1 | - | 52 | 3 | 95 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: NOVEMBER YEAR : 2009
 POLLUTANT : NITROGEN DIOXIDE 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 | 20 | 11 | 7 | 8 | 10 | 10 | 11 | 16 | 21 | 20 | 15 | 27 | 23 | 23 | 27 | 27 | 25 | 18 | 14 | 9 | 11 | 16 | **** | 12 | 17 |
| 2 | 11 | 10 | 9 | 10 | 9 | 8 | 9 | 14 | 13 | 14 | 14 | 16 | 11 | 13 | 15 | 14 | 13 | 14 | 13 | 13 | 12 | 11 | **** | 10 | 12 |
| 3 | 11 | 9 | 8 | 7 | 7 | 7 | 8 | 13 | 13 | 12 | 11 | 13 | 13 | 14 | 13 | 15 | 18 | 17 | 19 | 23 | 21 | 18 | **** | 12 | 13 |
| 4 | 15 | 11 | 10 | 9 | 7 | 5 | 7 | 11 | 18 | 17 | 7 | 8 | 38 | 50 | 24 | 70 | 53 | 37 | 15 | 8 | 10 | 14 | **** | 8 | 20 |
| 5 | 12 | 13 | 10 | 9 | 10 | 11 | 12 | 14 | 17 | 19 | 22 | 26 | 23 | 28 | 21 | 22 | 31 | 24 | 34 | 66 | 27 | 17 | **** | 12 | 21 |
| 6 | 12 | 11 | 8 | 7 | 8 | 9 | 10 | 17 | 24 | 20 | 19 | 19 | 18 | 15 | 13 | <-----> | | | | | | | | | |
| 7 | TELEMETRY FAULT | | | | | | | | | | | | 9 | 12 | 14 | 16 | 19 | 17 | 13 | 13 | 24 | 16 | **** | 14 | |
| 8 | 13 | 12 | 13 | 14 | 9 | 10 | 12 | 16 | 18 | 14 | 16 | 16 | 14 | 14 | 17 | 16 | 19 | 24 | 22 | 29 | 22 | 25 | **** | 20 | 17 |
| 9 | 15 | 10 | 10 | 8 | 6 | 7 | 12 | 20 | 17 | 15 | 15 | 16 | 15 | 14 | 17 | 19 | 26 | 33 | 28 | 29 | 22 | 22 | **** | 21 | 17 |
| 10 | 24 | 22 | 20 | 21 | 17 | 20 | 17 | 21 | 17 | 22 | 19 | 19 | 16 | 19 | 14 | 19 | 19 | 20 | 22 | 20 | 17 | 14 | **** | 14 | 19 |
| 11 | 15 | 21 | 15 | 14 | 12 | 11 | 13 | 19 | 19 | 12 | 9 | 8 | 7 | 7 | 10 | 15 | 12 | 13 | 13 | 9 | 8 | 10 | **** | 12 | 12 |
| 12 | 7 | 7 | 7 | 7 | 7 | 8 | 12 | 16 | 14 | 15 | 14 | 13 | 14 | 18 | 11 | 14 | 27 | 29 | 28 | 45 | 46 | 47 | **** | 45 | 20 |
| 13 | 43 | 37 | 32 | 31 | 30 | 29 | 29 | 30 | 30 | 32 | 33 | 37 | 43 | 48 | 50 | 42 | 36 | 40 | 40 | 36 | 36 | 40 | **** | 40 | 37 |
| 14 | 40 | 38 | 40 | 42 | 34 | 28 | 23 | 15 | 12 | 12 | 14 | 14 | 16 | 17 | 25 | 25 | 25 | 27 | 20 | 18 | 18 | 22 | **** | 21 | 24 |
| 15 | 23 | 16 | 12 | 11 | 10 | 9 | 10 | 10 | 11 | 11 | 12 | 11 | 11 | 12 | 12 | 14 | 15 | 13 | 11 | 11 | 10 | 9 | **** | 9 | 12 |
| 16 | 8 | 8 | 7 | 7 | 36 | 37 | 35 | 32 | 35 | 40 | 36 | 42 | 41 | 43 | 46 | 48 | 50 | 50 | 49 | 47 | 44 | 39 | **** | 26 | 35 |
| 17 | 18 | 16 | 14 | 11 | 13 | 11 | 14 | 24 | 24 | 29 | 26 | 28 | 30 | 31 | 33 | 36 | 37 | 39 | 29 | 29 | 26 | 28 | **** | 25 | 25 |
| 18 | 23 | 18 | 19 | 15 | 14 | 13 | 19 | 24 | 34 | 36 | 34 | 29 | 17 | 16 | 13 | 16 | 36 | 58 | 60 | 56 | 53 | 49 | **** | 43 | 30 |
| 19 | 34 | 25 | 26 | 27 | 19 | 22 | 27 | 36 | 39 | 40 | 43 | 45 | 57 | 64 | 67 | 66 | 74 | 67 | 48 | 30 | 27 | 23 | **** | 17 | 40 |
| 20 | 16 | 12 | 14 | 12 | 11 | 22 | 32 | 37 | 35 | 36 | 38 | 39 | 42 | 65 | 68 | 51 | 42 | 41 | 39 | 31 | 23 | 24 | **** | 25 | 33 |
| 21 | 30 | 21 | 14 | 10 | 10 | 12 | 12 | 28 | 43 | 47 | 35 | 49 | 44 | 43 | 49 | 58 | 68 | 65 | 46 | 53 | 58 | 46 | **** | 23 | 38 |
| 22 | 37 | 49 | 39 | 25 | 21 | 17 | 19 | 26 | 32 | 32 | 32 | 37 | 35 | 38 | 57 | 73 | 68 | 54 | 34 | 31 | 22 | 24 | **** | 14 | 35 |
| 23 | 11 | 8 | 10 | 10 | 11 | 10 | 14 | 17 | 18 | 18 | 17 | 15 | 15 | 14 | 18 | 24 | 20 | 10 | 10 | 16 | 15 | 25 | **** | 12 | 15 |
| 24 | 11 | 10 | 9 | 10 | 9 | 10 | 11 | 11 | 19 | 29 | 25 | 22 | 20 | 23 | 31 | 31 | 31 | 31 | 29 | 46 | 68 | 57 | **** | 10 | 24 |
| 25 | 15 | 19 | 10 | 10 | 7 | 8 | 11 | 17 | 19 | 17 | 18 | 16 | 15 | 16 | 17 | 23 | 24 | 24 | 17 | 12 | 15 | 12 | **** | 8 | 15 |
| 26 | 10 | 8 | 8 | 7 | 8 | 6 | 7 | 10 | 12 | 12 | 11 | 10 | 9 | 11 | 18 | 19 | 24 | 25 | 18 | 17 | 13 | 13 | **** | 10 | 12 |
| 27 | 8 | 7 | 7 | 8 | 6 | 6 | 8 | 13 | 18 | 16 | 16 | 13 | 13 | 15 | 22 | 27 | 22 | 26 | 43 | 80 | 81 | 33 | **** | 11 | 22 |
| 28 | 15 | 16 | 10 | 6 | 6 | 5 | 8 | 10 | 13 | 14 | 14 | 13 | 11 | 12 | 16 | 17 | 18 | 18 | 15 | 10 | 17 | 12 | **** | 14 | 13 |
| 29 | 9 | 8 | 6 | 6 | 7 | 4 | 8 | 10 | 15 | 12 | 19 | 25 | 33 | 20 | 28 | 41 | 37 | 22 | 17 | 17 | 17 | 15 | **** | 16 | 17 |
| 30 | 15 | 15 | 13 | 12 | 11 | 11 | 11 | 16 | 25 | 28 | 25 | 30 | 63 | 38 | 27 | 30 | 23 | 17 | 12 | 13 | 15 | 20 | **** | 16 | 21 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | | <-----RANGE-----> | | | | STD GEOM | PERCENT | NO. OF TIMES ABOVE OBJECTIVE | | | |
|------|--------|------------------------|----|----|----|----|----|-------------------|-------|-------|-----------|------------|---------|------------------------------|----|---|---|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | | | |
| 18 | 17 | 22 | 17 | 42 | 50 | 65 | 68 | 4 | - | 81 | 12 | - | 40 | 2 | 93 | 0 | 0 |

- NOTES:
1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: DECEMBER YEAR : 2009
 POLLUTANT : SULPHUR DIOXIDE 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 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 5 | 4 | 5 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | **** | 0 | 2 | |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 1 | 4 | 7 | 1 | **** | 0 | 1 |
| 3 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 1 | 3 | 10 | 5 | 1 | 1 | 3 | 4 | 5 | 11 | 14 | 17 | 14 | **** | 6 | 4 |
| 4 | 7 | 9 | 7 | 6 | 8 | 10 | 15 | 12 | 12 | 11 | 11 | 11 | 11 | 7 | 5 | 4 | 5 | 3 | 6 | 14 | 18 | 48 | **** | 107 | 15 |
| 5 | 57 | 28 | 23 | 20 | 16 | 9 | 18 | 18 | 14 | 13 | 12 | 13 | 13 | 11 | 10 | 9 | 8 | 5 | 2 | 7 | 8 | 10 | **** | 4 | 14 |
| 6 | 2 | 5 | 6 | 3 | 3 | 5 | 9 | 12 | 11 | 13 | 12 | 11 | 12 | 9 | 8 | 5 | 5 | 9 | 4 | 4 | 4 | 3 | **** | 0 | 7 |
| 7 | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | **** | 0 | 1 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 |
| 10 | 0 | 0 | 9 | 17 | 23 | 23 | 13 | 1 | 0 | 7 | 42 | 51 | 71 | 68 | 33 | 42 | 23 | 28 | 29 | 31 | 19 | 1 | **** | 0 | 23 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 3 | 8 | 23 | 20 | 45 | 43 | 32 | 22 | 19 | **** | 1 | 10 | |
| 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | **** | 4 | 0 |
| 17 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 3 | **** | 3 | 1 |
| 18 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | **** | 0 | 1 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 9 | 10 | 9 | 9 | 7 | 9 | 8 | 9 | 8 | 9 | **** | 10 | 5 |
| 20 | 10 | 10 | 11 | 10 | 3 | 0 | 2 | 2 | 1 | 0 | 3 | 9 | 13 | 17 | 13 | 8 | 7 | 13 | 7 | 5 | 5 | 5 | **** | 7 | 7 |
| 21 | 6 | 5 | 4 | 7 | 9 | 9 | 9 | 9 | 9 | 8 | 10 | 12 | 12 | 4 | 3 | 3 | 3 | 4 | 1 | 0 | 2 | 3 | **** | 0 | 6 |
| 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 4 | 3 | 1 | 1 | 4 | 3 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | **** | 3 | 1 |
| 23 | 0 | 1 | 2 | 6 | 3 | 2 | 5 | 6 | 7 | 5 | 8 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 2 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 9 | 2 | 4 | 2 | **** | 4 | 1 |
| 25 | 1 | 0 | 0 | 9 | 27 | 41 | 78 | 92 | 60 | 151 | 91 | 80 | 80 | 62 | 69 | 38 | 52 | 41 | 18 | 9 | 15 | 15 | **** | 38 | 46 |
| 26 | 20 | 38 | 11 | 6 | 4 | 7 | 2 | 3 | 4 | 6 | 7 | 3 | 8 | 9 | 10 | 10 | 6 | 5 | 6 | 7 | 8 | 6 | **** | 5 | 8 |
| 27 | 8 | 7 | 6 | 4 | 5 | 4 | 5 | 5 | 1 | 1 | 3 | 3 | 1 | 2 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | 4 | **** | 2 | 3 |
| 28 | 3 | 7 | 3 | 3 | 5 | 4 | 0 | 1 | 4 | 5 | 8 | 7 | 8 | 7 | 8 | 9 | 7 | 7 | 3 | 4 | 3 | 1 | **** | 3 | 5 |
| 29 | 7 | 4 | 5 | 3 | 4 | 6 | 3 | 2 | 0 | 1 | 3 | 4 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 2 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | **** | 0 | 1 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 2 | 1 | 2 | 4 | 4 | 6 | 3 | **** | 1 | 1 |

MONTHLY STATISTICS:

| GEOM | | ARITH | PERCENTILE | | | | | RANGE | | | | STD GEOM | PERCENT | NO. OF TIMES | | | |
|------|--------|-------|------------|----|----|----|----|-------|---|-------|---|-----------|------------|--------------|-------|---|---|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | | 24-HR | | DEVIATION | VALID DATA | 1-HR | 24-HR | | |
| 4 | 1 | 5 | 1 | 12 | 23 | 50 | 70 | 0 | - | 151 | 0 | - | 46 | 4 | 96 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 : SULPHUR DIOXIDE

MONTH: OCTOBER

YEAR : 2009
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 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 7 | 6 | 4 | 4 | 11 | 9 | 13 | 22 | 12 | 14 | 21 | 14 | 19 | 22 | **** | 4 | 9 |
| 2 | 3 | 5 | 4 | 3 | 3 | 3 | 4 | 4 | 7 | 8 | 5 | 7 | 12 | 11 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 8 | **** | 7 | 6 |
| 3 | 8 | 11 | 12 | 11 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 21 | 29 | 25 | 23 | 17 | 14 | 17 | 22 | 13 | 8 | **** | 4 | 13 |
| 4 | 3 | 4 | 21 | 20 | 7 | 6 | 6 | 6 | 8 | 7 | 7 | 14 | 17 | 15 | 11 | 13 | 23 | 17 | 20 | 32 | 42 | 42 | **** | 33 | 16 |
| 5 | 32 | 20 | 14 | 13 | 13 | 13 | 11 | 12 | 13 | 12 | 11 | 11 | 16 | 32 | 32 | 21 | 12 | 15 | 11 | 11 | 8 | 9 | **** | 13 | 15 |
| 6 | 12 | 11 | 10 | 8 | 8 | 5 | 5 | 6 | 6 | 4 | 6 | 17 | 15 | 17 | 17 | 21 | 12 | 23 | 33 | 34 | 41 | 47 | **** | 25 | 17 |
| 7 | 14 | 6 | 6 | 5 | 3 | 6 | 5 | 6 | 12 | 22 | 31 | 37 | 44 | 27 | 21 | 23 | 21 | 31 | 26 | 26 | 21 | 15 | **** | 8 | 18 |
| 8 | 6 | 5 | 4 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 8 | 7 | 8 | 28 | 27 | 10 | 9 | 9 | 11 | 10 | **** | 8 | 9 |
| 9 | 8 | 7 | 6 | 7 | 7 | 6 | 5 | 11 | 13 | 15 | 21 | 24 | 40 | 22 | 28 | 25 | 31 | 29 | 24 | 26 | 38 | 23 | **** | 11 | 18 |
| 10 | 8 | 10 | 8 | 6 | 5 | 6 | 8 | 11 | 12 | 12 | 12 | 9 | 23 | 21 | 22 | 9 | 9 | 10 | 11 | 8 | 7 | 7 | **** | 4 | 10 |
| 11 | 3 | 4 | 5 | 5 | 3 | 3 | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 3 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 3 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | **** | 3 | 1 |
| 13 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | **** | 3 | 1 |
| 14 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 3 | 4 | 4 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | **** | 2 | 2 |
| 15 | 2 | 0 | 2 | 3 | 3 | 3 | 7 | 6 | 6 | 8 | 7 | 20 | 25 | 7 | 8 | 6 | 6 | 6 | 5 | 5 | 4 | 3 | **** | 4 | 6 |
| 16 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 3 | 3 | 3 | 5 | **** | 3 | 5 |
| 17 | 3 | 3 | 3 | 2 | 3 | 4 | 5 | 13 | 19 | 10 | 9 | 8 | 8 | 8 | 8 | 7 | 5 | 5 | 5 | 5 | 5 | 11 | **** | 5 | 7 |
| 18 | 3 | 3 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 7 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | **** | 5 | 5 |
| 19 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 2 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 1 | 1 | 1 | 1 | 2 | **** | 4 | 2 |
| 21 | 4 | 4 | 6 | 4 | 4 | 7 | 9 | 10 | 11 | 10 | 11 | 12 | 11 | 11 | 12 | 11 | 13 | 12 | 9 | 9 | 8 | 8 | **** | 8 | 9 |
| 22 | 7 | 6 | 5 | 6 | 8 | 8 | 7 | 7 | 10 | 20 | 30 | 33 | 35 | 29 | 38 | 36 | 77 | 33 | 27 | 27 | 31 | 30 | **** | 18 | 23 |
| 23 | 11 | 9 | 8 | 8 | 6 | 7 | 8 | 10 | 13 | 20 | 25 | 29 | 35 | 44 | 76 | 53 | 88 | 72 | 42 | 66 | 60 | 61 | **** | 70 | 36 |
| 24 | 67 | 60 | 73 | 42 | 12 | 8 | 8 | 7 | 8 | 8 | 11 | 21 | 17 | 39 | 34 | 56 | 29 | 36 | 36 | 36 | 39 | 44 | **** | 45 | 32 |
| 25 | 35 | 44 | 45 | 26 | 23 | 14 | 9 | 8 | 10 | 11 | 11 | 12 | 14 | 20 | 16 | 23 | 19 | 11 | 21 | 19 | 20 | 17 | **** | 14 | 19 |
| 26 | 29 | 36 | 41 | 27 | 13 | 10 | 8 | 7 | 5 | 4 | 4 | 6 | 7 | 6 | 6 | 6 | 8 | 11 | 13 | 9 | 10 | **** | 7 | 12 | |
| 27 | 7 | 6 | 5 | 5 | 6 | 5 | 3 | 4 | 3 | 3 | 5 | 6 | 5 | 5 | 5 | 4 | 5 | 3 | 4 | 4 | 5 | 3 | **** | 3 | 5 |
| 28 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 5 | 4 | 4 | 6 | 6 | **** | 7 | 4 |
| 29 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 5 | 4 | 5 | 6 | 6 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | **** | 4 | 5 |
| 30 | 5 | 3 | 2 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 3 | **** | 3 | 3 |
| 31 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 4 | 4 | 13 | 13 | 8 | 33 | 20 | 21 | 30 | 34 | 48 | 36 | **** | 17 | 13 |

MONTHLY STATISTICS:

| GEOM | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|----------------------|----|----|----|----|-----------------|---|-------|-----------|------------|---------|--------------|--|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 6 | 6 | 6 | 27 | 36 | 46 | 64 | 0 | - | 88 | 3 | 96 | 0 | 0 | |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: OCTOBER

YEAR : 2009
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 | 45 | 34 | 35 | 32 | 36 | 38 | 37 | 42 | 42 | 38 | 36 | 32 | 43 | 35 | 55 | 45 | 46 | 65 | 80 | 64 | 62 | 75 | **** | 41 | 46 |
| 2 | 55 | 51 | 32 | 34 | 22 | 15 | 31 | 43 | 49 | 54 | 43 | 39 | 39 | 24 | 21 | 35 | 24 | 30 | 23 | 31 | 33 | 25 | **** | 49 | 35 |
| 3 | 51 | 70 | 63 | 35 | 17 | 23 | 32 | 58 | 70 | 66 | 59 | 38 | 40 | 60 | 44 | 33 | 13 | 18 | 61 | 69 | 67 | 30 | **** | 32 | 46 |
| 4 | 36 | 23 | 81 | 50 | 18 | 18 | 25 | 43 | 49 | 45 | 34 | 38 | 44 | 31 | 31 | 35 | 42 | 44 | 52 | 75 | 97 | 115 | **** | 69 | 48 |
| 5 | 81 | 38 | 12 | 7 | 7 | 14 | 48 | 55 | 75 | 74 | 57 | 56 | 47 | 56 | 61 | 60 | 86 | 73 | 63 | 75 | 80 | 57 | **** | 41 | 53 |
| 6 | 33 | 21 | 11 | 10 | 12 | 13 | 28 | 61 | 68 | 69 | 50 | 54 | 50 | 48 | 41 | 34 | 26 | 67 | 65 | 81 | 86 | 67 | **** | 64 | 46 |
| 7 | 22 | 11 | 7 | 4 | 5 | 17 | 32 | 61 | 76 | 48 | 60 | 82 | 78 | 31 | 34 | 27 | 23 | 52 | 67 | 65 | 58 | 24 | **** | 14 | 39 |
| 8 | 10 | 6 | 3 | 2 | 3 | 7 | 41 | 53 | 61 | 28 | 13 | 10 | 13 | 22 | 20 | 40 | 33 | 26 | 36 | 29 | 36 | 25 | **** | 47 | 25 |
| 9 | 28 | 20 | 13 | 8 | 6 | 10 | 32 | 57 | 76 | 79 | 80 | 64 | 53 | 24 | 35 | 30 | 36 | 65 | 93 | 89 | 92 | 120 | **** | 48 | 50 |
| 10 | 19 | 19 | 21 | 17 | 15 | 27 | 41 | 69 | 67 | 44 | 52 | 40 | 45 | 44 | 46 | 37 | 63 | 92 | 82 | 93 | 51 | 29 | **** | 23 | 45 |
| 11 | 16 | 13 | 10 | 9 | 8 | 11 | 22 | 20 | 15 | 25 | 19 | 14 | 16 | 18 | 15 | 12 | 12 | 11 | 11 | 12 | 9 | 9 | **** | 8 | 14 |
| 12 | 5 | 3 | 2 | 2 | 2 | 3 | 8 | 15 | 18 | 15 | 15 | 16 | 14 | 17 | 14 | 14 | 19 | 17 | 16 | 15 | 11 | 10 | **** | 9 | 11 |
| 13 | 6 | 4 | 2 | 1 | 2 | 3 | 8 | 20 | 19 | 16 | 13 | 10 | 14 | 18 | 17 | 17 | 20 | 28 | 19 | 18 | 21 | 12 | **** | 12 | 13 |
| 14 | 9 | 5 | 5 | 3 | 4 | 6 | 21 | 29 | 30 | 28 | 47 | 47 | 31 | 34 | 24 | 29 | 33 | 32 | 30 | 24 | 20 | 18 | **** | 15 | 23 |
| 15 | 11 | 9 | 7 | 7 | 11 | 23 | 36 | 53 | 56 | 66 | 67 | 73 | 43 | 13 | 15 | 18 | 33 | 25 | 23 | 17 | 18 | 16 | **** | 18 | 29 |
| 16 | 16 | 9 | 5 | 4 | 7 | 7 | 20 | 34 | 40 | 28 | 28 | 37 | 34 | 27 | 28 | 43 | 32 | 40 | 42 | 42 | 27 | 34 | **** | 28 | 27 |
| 17 | 33 | 21 | 19 | 15 | 17 | 19 | 39 | 89 | 74 | 61 | 49 | 45 | 40 | 37 | 39 | 42 | 26 | 28 | 21 | 20 | 18 | 21 | **** | 12 | 34 |
| 18 | 11 | 8 | 7 | 7 | 8 | 9 | 11 | 14 | 16 | 16 | 14 | 16 | 16 | 19 | 16 | 19 | 18 | 20 | 20 | 19 | 17 | 18 | **** | 15 | 15 |
| 19 | 10 | 7 | 5 | 4 | 5 | 6 | 14 | 22 | 24 | 21 | 16 | 17 | 15 | 15 | 15 | 15 | 19 | 23 | 14 | 16 | 10 | **** | 9 | 14 | |
| 20 | 6 | 4 | 3 | 3 | 2 | 3 | 9 | 15 | 19 | 18 | 16 | 17 | 16 | 18 | 22 | 23 | 22 | 20 | 18 | 16 | 17 | 14 | **** | 11 | 14 |
| 21 | 10 | 9 | 8 | 6 | 6 | 9 | 23 | 48 | 40 | 34 | 27 | 27 | 30 | 23 | 31 | 35 | 38 | 37 | 28 | 27 | 28 | 29 | **** | 23 | 25 |
| 22 | 24 | 13 | 11 | 10 | 10 | 16 | 35 | 56 | 75 | 65 | 59 | 67 | 62 | 34 | 42 | 32 | 48 | 70 | 105 | 117 | 105 | 76 | **** | 43 | 51 |
| 23 | 27 | 13 | 11 | 15 | 16 | 33 | 49 | 84 | 76 | 80 | 72 | 66 | 58 | 48 | 44 | 41 | 61 | 122 | 118 | 151 | 100 | 113 | **** | 122 | 66 |
| 24 | 135 | 121 | 126 | 86 | 22 | 12 | 27 | 29 | 26 | 21 | 15 | 28 | 18 | 27 | 25 | 31 | 27 | 51 | 92 | 141 | 159 | 159 | **** | 95 | 64 |
| 25 | 105 | 77 | 46 | 27 | 20 | 12 | 13 | 17 | 26 | 27 | 26 | 14 | 17 | 22 | 18 | 25 | 22 | 17 | 43 | 54 | 60 | 76 | **** | 41 | 35 |
| 26 | 19 | 41 | 56 | 27 | 10 | 6 | 14 | 17 | 12 | 16 | 19 | 19 | 13 | 13 | 20 | 28 | 35 | 36 | 41 | 27 | 19 | 20 | **** | 13 | 23 |
| 27 | 9 | 6 | 5 | 4 | 5 | 7 | 14 | 25 | 27 | 24 | 16 | 18 | 20 | 15 | 19 | 19 | 20 | 20 | 22 | 16 | 17 | 12 | **** | 11 | 15 |
| 28 | 7 | 5 | 4 | 4 | 4 | 7 | 17 | 23 | 23 | 21 | 22 | 19 | 26 | 37 | 36 | 38 | 58 | 90 | 102 | 52 | 60 | 60 | **** | 29 | 32 |
| 29 | 18 | 10 | 6 | 6 | 7 | 8 | 20 | 27 | 30 | 28 | 22 | 23 | 21 | 27 | 30 | 38 | 32 | 30 | 41 | 31 | 30 | 28 | **** | 32 | 24 |
| 30 | 26 | 16 | 11 | 7 | 6 | 10 | 19 | 28 | 33 | 25 | 22 | 21 | 22 | 19 | 20 | 27 | 51 | 41 | 71 | 60 | 30 | 17 | **** | 15 | 26 |
| 31 | 10 | 11 | 6 | 6 | 6 | 7 | 21 | 25 | 27 | 29 | 34 | 34 | 40 | 23 | 15 | 53 | 64 | 104 | 135 | 153 | 219 | 216 | **** | 142 | 60 |

MONTHLY STATISTICS:

| GEOM | | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | | STD GEOM | PERCENT | NO. OF TIMES | | | |
|------|--------|-------|----------------------|----|----|-----|-----|-----------------|---|-------|----|-----------|------------|--------------|-------|---|---|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | | 24-HR | | DEVIATION | VALID DATA | 1-HR | 24-HR | | |
| 24 | 25 | 34 | 25 | 69 | 86 | 119 | 138 | 1 | - | 219 | 11 | - | 66 | 2 | 96 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: NOVEMBER YEAR : 2009
POLLUTANT : SULPHUR DIOXIDE 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 | 11 | 8 | 7 | 7 | 6 | 8 | 8 | 9 | 38 | 45 | 43 | 35 | 20 | 19 | 15 | 9 | 8 | 7 | 5 | 8 | 8 | **** | 9 | 15 | |
| 2 | 8 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 9 | 11 | 13 | 15 | 14 | 14 | **** | 13 | 9 | |
| 3 | 13 | 13 | 13 | 13 | 13 | 12 | 10 | 11 | 12 | 12 | 13 | 12 | 12 | 12 | 11 | 11 | 12 | 11 | 11 | 13 | 12 | 11 | **** | 10 | 12 | |
| 4 | 10 | 10 | 8 | 9 | 8 | 8 | 8 | 8 | 12 | 12 | 6 | 14 | 17 | 13 | 23 | 27 | 23 | 20 | 13 | 8 | 6 | 7 | **** | 4 | 12 | |
| 5 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 7 | 13 | 12 | 14 | 26 | 44 | 34 | 23 | 30 | 11 | 14 | 9 | 21 | 24 | 20 | **** | 8 | 15 | |
| 6 | 6 | 5 | 3 | 4 | 3 | 3 | 3 | 5 | 6 | 8 | 9 | 5 | 6 | 6 | 11 | 3 | 6 | 6 | 3 | 5 | 4 | 5 | **** | 4 | 5 | |
| 7 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 0 | 1 | 0 | 2 | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 2 | 2 | |
| 8 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 10 | 19 | 22 | 28 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | **** | 3 | 4 | |
| 9 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 6 | 5 | 5 | 6 | 6 | 6 | **** | 12 | 4 | |
| 10 | 15 | 16 | 10 | 8 | 10 | 11 | 10 | 13 | 15 | 9 | 10 | 69 | 22 | 12 | 30 | 17 | 10 | 5 | 12 | 6 | 9 | 10 | **** | 5 | 15 | |
| 11 | 3 | 8 | 6 | 11 | 12 | 8 | 10 | 9 | 9 | 11 | 8 | 7 | 7 | 5 | 5 | 3 | 3 | 2 | 1 | 1 | 0 | 1 | **** | 2 | 6 | |
| 12 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 3 | 4 | 5 | 7 | 8 | 8 | 6 | 5 | 12 | 12 | 13 | 24 | 27 | 31 | 30 | **** | 17 | 9 | |
| 13 | 19 | 38 | 31 | 24 | 27 | 18 | 13 | 15 | 10 | 11 | 17 | 19 | 19 | 19 | 16 | 15 | 19 | 18 | 10 | 8 | 3 | 4 | **** | 3 | 16 | |
| 14 | 3 | 4 | 10 | 13 | 11 | 10 | 7 | 5 | 15 | 24 | 18 | 9 | 18 | 19 | 22 | 11 | 16 | 22 | 14 | 10 | 12 | 7 | **** | 8 | 13 | |
| 15 | 6 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 7 | 8 | 6 | 6 | 6 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | **** | 3 | 5 | |
| 16 | 1 | 1 | 5 | 7 | 4 | 6 | 6 | 6 | 6 | 8 | 7 | 10 | 8 | 8 | 8 | 13 | 11 | 10 | 8 | 8 | 7 | 7 | **** | 2 | 7 | |
| 17 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 9 | 7 | 6 | 7 | 8 | 8 | 6 | 6 | 5 | **** | 6 | 5 | |
| 18 | 5 | 5 | 6 | 8 | 9 | 6 | 6 | 6 | 8 | 10 | 15 | 13 | 9 | 8 | 7 | 11 | 16 | 15 | 22 | 13 | 12 | 14 | **** | 17 | 10 | |
| 19 | 8 | 3 | 3 | 5 | 11 | 13 | 16 | 15 | 14 | 14 | 20 | 24 | 31 | 32 | 27 | 23 | 23 | 32 | 42 | 20 | 11 | 11 | **** | 11 | 18 | |
| 20 | 11 | 11 | 12 | 14 | 16 | 19 | 16 | 9 | 8 | 10 | 14 | 30 | 38 | 23 | 16 | 18 | 29 | 29 | 13 | 6 | 5 | 5 | **** | 5 | 16 | |
| 21 | 6 | 6 | 5 | 5 | 6 | 7 | 7 | 9 | 17 | 29 | 29 | 30 | 27 | 20 | 20 | 28 | 28 | 22 | 26 | 22 | 21 | 15 | **** | 13 | 17 | |
| 22 | 14 | 16 | 17 | 9 | 8 | 9 | 10 | 11 | 13 | 12 | 13 | 15 | 16 | 22 | 25 | 26 | 25 | 16 | 12 | 12 | 13 | 11 | **** | 12 | 15 | |
| 23 | 9 | 9 | 8 | 9 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 4 | 3 | 3 | 8 | 11 | 30 | 30 | 19 | 7 | 27 | 17 | **** | 5 | 11 | |
| 24 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 20 | 26 | 50 | 43 | 49 | 44 | 47 | 36 | 41 | 37 | 26 | 23 | 37 | 37 | **** | 31 | 25 | |
| 25 | 14 | 6 | 5 | 5 | 4 | 5 | 3 | 4 | 5 | 6 | 14 | 14 | 15 | 14 | 5 | 6 | 8 | 5 | 5 | 5 | 5 | 5 | **** | 4 | 7 | |
| 26 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | <-----D-----> | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | **** | 3 | 3 |
| 27 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 8 | 7 | 5 | 5 | 5 | 5 | 6 | 12 | 13 | 17 | 18 | 23 | 30 | 24 | **** | 18 | 10 | |
| 28 | 12 | 10 | 6 | 5 | 5 | 3 | 3 | 3 | 3 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 4 | 3 | **** | 3 | 5 | |
| 29 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 5 | 6 | 8 | 11 | 31 | 32 | 18 | 11 | 15 | 22 | 21 | 18 | 10 | 10 | **** | 9 | 11 | |
| 30 | 8 | 7 | 8 | 7 | 6 | 6 | 7 | 7 | 12 | 25 | 37 | 23 | 14 | 13 | 18 | 12 | 11 | 12 | 21 | 18 | 8 | 8 | **** | 8 | 13 | |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | | | STD GEOM | PERCENT | NO. OF TIMES ABOVE OBJECTIVE | | | |
|------|--------|------------------------|----|----|----|----|-------------------|---|----|--|-------|-----------|------------|------------------------------|-------|---|---|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | | | | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | | |
| 7 | 8 | 8 | 23 | 30 | 38 | 44 | 0 | - | 69 | | 2 | - | 25 | 3 | 95 | 0 | 0 |

- NOTES:
1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: NOVEMBER YEAR : 2009
POLLUTANT : NITROGEN DIOXIDE 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 | 78 | 52 | 27 | 27 | 20 | 36 | 33 | 59 | 46 | 74 | 84 | 69 | 46 | 32 | 35 | 36 | 49 | 59 | 34 | 42 | 46 | 39 | **** | 36 | 46 |
| 2 | 27 | 18 | 15 | 13 | 12 | 15 | 23 | 36 | 38 | 31 | 30 | 29 | 27 | 26 | 24 | 29 | 35 | 37 | 35 | 35 | 39 | 32 | **** | 28 | 28 |
| 3 | 24 | 16 | 13 | 12 | 12 | 16 | 26 | 50 | 64 | 72 | 47 | 28 | 33 | 38 | 39 | 39 | 55 | 54 | 68 | 86 | 93 | 81 | **** | 67 | 45 |
| 4 | 54 | 37 | 23 | 16 | 17 | 21 | 32 | 61 | 71 | 78 | 62 | 69 | 61 | 65 | 83 | 99 | 121 | 106 | 144 | 132 | 141 | 98 | **** | 44 | 71 |
| 5 | 52 | 39 | 52 | 32 | 18 | 18 | 55 | 76 | 95 | 89 | 76 | 69 | 99 | 95 | 98 | 69 | 31 | 45 | 86 | 99 | 149 | 149 | **** | 63 | 72 |
| 6 | 38 | 23 | 12 | 17 | 16 | 25 | 40 | 41 | 52 | 48 | 41 | 24 | 22 | 28 | 44 | 35 | 48 | 52 | 82 | 79 | 45 | 26 | **** | 37 | 38 |
| 7 | 14 | 9 | 14 | 6 | 6 | 8 | 14 | 24 | 24 | 20 | 18 | 21 | 36 | 31 | 19 | 19 | 27 | 31 | 34 | 27 | 35 | 23 | **** | 17 | 21 |
| 8 | 16 | 12 | 10 | 9 | 8 | 10 | 21 | 18 | 22 | 30 | 39 | 45 | 42 | 12 | 23 | 31 | 26 | 17 | 30 | 32 | 30 | 21 | **** | 19 | 23 |
| 9 | 16 | 9 | 6 | 7 | 6 | 8 | 22 | 35 | 31 | 22 | 17 | 16 | 17 | 18 | 15 | 32 | 40 | 36 | 32 | 36 | 29 | **** | 30 | 22 | |
| 10 | 31 | 22 | 16 | 14 | 19 | 20 | 30 | 29 | 19 | 8 | 9 | 20 | 14 | 12 | 15 | 10 | 18 | 14 | 26 | 21 | 29 | 40 | **** | 31 | 20 |
| 11 | 23 | 22 | 14 | 24 | 24 | 20 | 30 | 34 | 30 | 25 | 17 | 13 | 12 | 16 | 18 | 20 | 19 | 22 | 22 | 19 | 13 | 13 | **** | 17 | 20 |
| 12 | 11 | 8 | 7 | 8 | 8 | 13 | 27 | 43 | 41 | 36 | 29 | 26 | 25 | 20 | 17 | 25 | 27 | 31 | 40 | 55 | 52 | 52 | **** | 46 | 28 |
| 13 | 39 | 34 | 32 | 31 | 30 | 29 | 29 | 30 | 28 | 27 | 31 | 34 | 39 | 40 | 41 | 53 | 67 | 71 | 61 | 49 | 31 | 40 | **** | 55 | 40 |
| 14 | 52 | 50 | 48 | 42 | 36 | 37 | 40 | 41 | 44 | 47 | 44 | 39 | 50 | 56 | 62 | 68 | 65 | 63 | 67 | 65 | 58 | 40 | **** | 27 | 50 |
| 15 | 25 | 20 | 17 | 15 | 15 | 15 | 18 | 19 | 19 | 21 | 20 | 19 | 20 | 20 | 18 | 18 | 18 | 19 | 17 | 16 | 15 | 15 | **** | 16 | 18 |
| 16 | 13 | 23 | 49 | 42 | 38 | 34 | 33 | 41 | 43 | 48 | 43 | 37 | 41 | 40 | 47 | 48 | 50 | 49 | 51 | 51 | 47 | 45 | **** | 30 | 41 |
| 17 | 26 | 20 | 18 | 15 | 17 | 17 | 24 | 27 | 39 | 36 | 33 | 37 | 41 | 40 | 42 | 44 | 49 | 50 | 54 | 44 | 40 | 47 | **** | 44 | 35 |
| 18 | 36 | 31 | 30 | 28 | 29 | 22 | 32 | 39 | 44 | 44 | 41 | 41 | 44 | 46 | 51 | 58 | 71 | 74 | 71 | 67 | 62 | 60 | **** | 54 | 47 |
| 19 | 39 | 30 | 20 | 22 | 32 | 38 | 45 | 44 | 46 | 44 | 51 | 52 | 72 | 73 | 70 | 74 | 95 | 126 | 124 | 88 | 78 | 80 | **** | 76 | 62 |
| 20 | 71 | 63 | 50 | 51 | 47 | 48 | 44 | 43 | 47 | 45 | 42 | 46 | 65 | 55 | 48 | 55 | 70 | 84 | 59 | 46 | 50 | 44 | **** | 57 | 54 |
| 21 | 42 | 28 | 22 | 17 | 18 | 23 | 29 | 49 | 58 | 66 | 61 | 60 | 65 | 67 | 73 | 86 | 101 | 110 | 117 | 99 | 109 | 91 | **** | 60 | 63 |
| 22 | 81 | 66 | 61 | 29 | 27 | 24 | 33 | 44 | 47 | 39 | 43 | 50 | 47 | 51 | 64 | 72 | 73 | 84 | 65 | 83 | 73 | 75 | **** | 100 | 58 |
| 23 | 69 | 63 | 44 | 31 | 18 | 17 | 23 | 37 | 46 | 47 | 33 | 23 | 26 | 33 | 35 | 29 | 110 | 121 | 134 | 112 | 150 | 120 | **** | 40 | 59 |
| 24 | 26 | 15 | 16 | 18 | 16 | 19 | 47 | 69 | 82 | 78 | 85 | 86 | 79 | 57 | 64 | 62 | 75 | 89 | 149 | 164 | 148 | 161 | **** | 165 | 77 |
| 25 | 78 | 37 | 14 | 10 | 9 | 11 | 31 | 42 | 30 | 33 | 52 | 43 | 34 | 32 | 17 | 27 | 40 | 71 | 106 | 106 | 79 | 66 | **** | 27 | 43 |
| 26 | 17 | 11 | 8 | 7 | 8 | 7 | 14 | 25 | 24 | 22 | 14 | <----- D -----> | | | | | 29 | 32 | 36 | 28 | 26 | 28 | **** | 23 | 20 |
| 27 | 13 | 12 | 11 | 10 | 11 | 10 | 20 | 48 | 55 | 50 | 41 | 41 | 37 | 39 | 24 | 33 | 40 | 72 | 114 | 124 | 140 | 137 | **** | 131 | 53 |
| 28 | 81 | 56 | 18 | 10 | 8 | 9 | 12 | 14 | 19 | 20 | 16 | 18 | 19 | 21 | 23 | 24 | 32 | 62 | 77 | 68 | 53 | 35 | **** | 16 | 31 |
| 29 | 15 | 14 | 12 | 9 | 9 | 10 | 16 | 19 | 23 | 30 | 43 | 42 | 67 | 64 | 30 | 23 | 32 | 70 | 82 | 98 | 84 | 65 | **** | 55 | 40 |
| 30 | 32 | 23 | 16 | 15 | 14 | 15 | 34 | 71 | 74 | 88 | 84 | 74 | 60 | 58 | 36 | 32 | 35 | 82 | 112 | 133 | 98 | 75 | **** | 75 | 58 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | | STD GEOM | PERCENT | NO. OF TIMES ABOVE OBJECTIVE | | | | |
|------|--------|------------------------|----|----|----|-----|-------------------|------|-------|-------|-----------|------------|------------------------------|-------|----|---|---|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | | | |
| 34 | 36 | 43 | 36 | 81 | 99 | 133 | 149 | 6 | - | 165 | 18 | - | 77 | 2 | 95 | 0 | 0 |

- NOTES: 1. FLAGS FOR INVALID DATA :
 **** : DAILY ZERO/SPAN CHECK
 D : DYNAMIC CALIBRATION
 T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 M : MAINTENANCE OR MACHINE SHUTDOWN
 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: DECEMBER

YEAR : 2009
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 | 13 | 9 | 7 | 7 | 8 | 7 | 7 | 15 | 27 | 24 | 43 | 20 | 13 | 16 | 16 | 9 | 7 | 6 | 6 | 7 | 9 | **** | 6 | 13 |
| 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 9 | 8 | 8 | 6 | 7 | 12 | 17 | 32 | 15 | 37 | 26 | 27 | 31 | 16 | **** | 10 | 13 |
| 3 | 7 | 5 | 6 | 6 | 8 | 11 | 11 | 13 | 16 | 17 | 15 | 14 | 17 | 15 | 14 | 10 | 8 | 12 | 17 | 19 | 20 | 17 | **** | 19 | 13 |
| 4 | 17 | 15 | 13 | 15 | 14 | 12 | 12 | 14 | 16 | 16 | 15 | 30 | 15 | 15 | 11 | 11 | 19 | 11 | 15 | 22 | 37 | 36 | **** | 46 | 19 |
| 5 | 49 | 44 | 31 | 23 | 18 | 17 | 16 | 20 | 18 | 18 | 13 | 13 | 13 | 13 | 14 | 13 | 12 | 10 | 10 | 9 | 10 | 10 | **** | 11 | 18 |
| 6 | 9 | 8 | 8 | 7 | 8 | 8 | 9 | 12 | 13 | 13 | 15 | 13 | 13 | 12 | 8 | 8 | 7 | 8 | 8 | 5 | 7 | 8 | **** | 3 | 9 |
| 7 | 5 | 5 | 5 | 5 | 5 | 6 | 8 | 8 | 5 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 0 | 1 | 0 | 1 | 3 | **** | 2 | 3 |
| 8 | 1 | 1 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 3 | 4 | 8 | 3 | 3 | 2 | **** | 3 | 2 |
| 9 | 3 | 6 | 14 | 16 | 17 | 13 | 8 | 24 | 22 | 11 | 7 | 7 | 5 | 3 | 3 | 8 | 11 | 26 | 15 | 11 | 16 | 30 | **** | 27 | 13 |
| 10 | 37 | 34 | 35 | 35 | 26 | 26 | 24 | 21 | 34 | 52 | 64 | 91 | 69 | 40 | 31 | 32 | 54 | 35 | 22 | 23 | 18 | 14 | **** | 6 | 36 |
| 11 | 4 | 9 | 5 | 3 | 4 | 2 | 2 | 6 | 7 | 7 | 19 | 14 | 27 | 13 | 5 | 3 | 3 | 3 | 3 | 2 | 2 | 0 | **** | 1 | 6 |
| 12 | 0 | 1 | 0 | 0 | 2 | 1 | 2 | 5 | 2 | 0 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | **** | 2 | 1 |
| 13 | 2 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 7 | 12 | 15 | 27 | 39 | 19 | 20 | 40 | 38 | 54 | 37 | 30 | 24 | 24 | **** | 20 | 19 |
| 14 | 37 | 35 | 40 | 29 | 18 | 12 | 8 | 9 | 10 | 8 | 5 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | **** | 1 | 10 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 3 | 6 | 15 | 20 | 29 | 13 | 6 | 10 | 15 | **** | 5 | 6 |
| 16 | 4 | 5 | 5 | 5 | 7 | 8 | 5 | 6 | 10 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 9 | 9 | 10 | 11 | 12 | 8 | **** | 8 | 8 |
| 17 | 8 | 10 | 11 | 14 | 14 | 15 | 19 | 9 | 10 | 10 | 10 | 7 | 5 | 6 | 8 | 8 | 10 | 17 | 19 | 17 | 9 | 8 | **** | 7 | 11 |
| 18 | 5 | 7 | 9 | 6 | 4 | 5 | 7 | 7 | 8 | 8 | 8 | 8 | 10 | 10 | 19 | 15 | 11 | 11 | 7 | 13 | 14 | 8 | **** | 7 | 9 |
| 19 | 7 | 7 | 7 | 7 | 9 | 9 | 8 | 11 | 11 | 14 | 11 | 10 | 10 | 11 | 12 | 17 | 14 | 12 | 11 | 17 | 14 | 16 | **** | 11 | 11 |
| 20 | 10 | 10 | 10 | 9 | 10 | 9 | 10 | 11 | 14 | 13 | 14 | 14 | 15 | 18 | 18 | 21 | 13 | 13 | 12 | 13 | 12 | 12 | **** | 13 | 13 |
| 21 | 14 | 12 | 10 | 10 | 10 | 11 | 10 | 11 | 14 | 13 | 14 | 15 | 12 | 9 | 8 | 9 | 10 | 10 | 8 | 8 | 10 | 10 | **** | 8 | 11 |
| 22 | 8 | 8 | 8 | 6 | 5 | 6 | 5 | 7 | 10 | 10 | 10 | 12 | 10 | 10 | 8 | 8 | 6 | 6 | 5 | 5 | 6 | 5 | **** | 6 | 7 |
| 23 | 3 | 4 | 5 | 5 | 5 | 4 | 5 | 10 | 24 | 22 | 23 | 27 | 10 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 3 | 6 | **** | 2 | 8 |
| 24 | 6 | 14 | 16 | 20 | 32 | 26 | 29 | 22 | 30 | 37 | 33 | 32 | 27 | 28 | 27 | 15 | 28 | 24 | 30 | 22 | 17 | 11 | **** | 15 | 24 |
| 25 | 22 | 22 | 17 | 16 | 16 | 18 | 26 | 32 | 50 | 74 | 91 | 63 | 111 | 53 | 32 | 28 | 54 | 64 | 55 | 37 | 33 | 51 | **** | 47 | 44 |
| 26 | 33 | 18 | 24 | 14 | 10 | 10 | 9 | 9 | 10 | 12 | 10 | 10 | 10 | 10 | 11 | 8 | 8 | 8 | 8 | 9 | 9 | 8 | **** | 8 | 12 |
| 27 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 7 | 8 | 6 | 6 | 6 | 6 | 10 | 5 | 9 | 5 | 3 | 4 | 3 | 5 | 8 | **** | 8 | 7 |
| 28 | 8 | 5 | 6 | 8 | 7 | 5 | 6 | 8 | 11 | 15 | 24 | 27 | 22 | 30 | 32 | 19 | 13 | 12 | 10 | 8 | 5 | 7 | **** | 10 | 13 |
| 29 | 8 | 8 | 7 | 7 | 6 | 5 | 5 | 5 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 4 | **** | 8 | 5 |
| 30 | 6 | 5 | 4 | 7 | 14 | 14 | 7 | 6 | 9 | 20 | 28 | 16 | 8 | 6 | 8 | 7 | 3 | 5 | 3 | 3 | 4 | 4 | **** | 5 | 8 |
| 31 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 3 | 5 | 8 | 8 | 8 | 8 | 9 | 10 | 10 | 11 | 10 | **** | 10 | 6 |

MONTHLY STATISTICS:

| GEOM | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | | STD 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 | 8 | 12 | 8 | 27 | 35 | 51 | 59 | 0 | - | 111 | 1 | - | 44 | 3 | 96 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: DECEMBER

YEAR : 2009
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 | 65 | 72 | 53 | 41 | 40 | 25 | 35 | 65 | 79 | 75 | 76 | 81 | 31 | 20 | 23 | 30 | 38 | 101 | 66 | 64 | 35 | 30 | **** | 23 | 51 |
| 2 | 17 | 14 | 14 | 12 | 15 | 14 | 26 | 49 | 52 | 30 | 39 | 41 | 50 | 36 | 38 | 55 | 37 | 75 | 78 | 111 | 98 | 68 | **** | 36 | 44 |
| 3 | 24 | 13 | 12 | 10 | 9 | 11 | 21 | 40 | 54 | 55 | 54 | 58 | 53 | 44 | 52 | 48 | 50 | 83 | 93 | 94 | 81 | 63 | **** | 103 | 49 |
| 4 | 100 | 86 | 71 | 54 | 39 | 31 | 42 | 46 | 61 | 66 | 45 | 42 | 39 | 30 | 15 | 18 | 36 | 41 | 81 | 92 | 137 | 93 | **** | 99 | 59 |
| 5 | 79 | 55 | 50 | 43 | 25 | 23 | 31 | 58 | 75 | 73 | 46 | 33 | 44 | 42 | 36 | 32 | 42 | 52 | 40 | 31 | 27 | 46 | **** | 68 | 46 |
| 6 | 49 | 30 | 19 | 15 | 14 | 17 | 22 | 23 | 27 | 28 | 22 | 19 | 19 | 19 | 15 | 18 | 19 | 24 | 22 | 17 | 20 | 19 | **** | 15 | 21 |
| 7 | 14 | 11 | 10 | 9 | 10 | 13 | 22 | 32 | 35 | 39 | 32 | 27 | 26 | 33 | 33 | 22 | 21 | 18 | 17 | 14 | 14 | 13 | **** | 9 | 21 |
| 8 | 8 | 7 | 6 | 7 | 7 | 8 | 12 | 18 | 21 | 21 | 16 | 22 | 33 | 45 | 48 | 51 | 59 | 61 | 61 | 60 | 53 | 50 | **** | 42 | 31 |
| 9 | 42 | 54 | 46 | 46 | 44 | 44 | 48 | 49 | 51 | 55 | 55 | 55 | 49 | 38 | 57 | 61 | 64 | 70 | 71 | 67 | 63 | 67 | **** | 56 | 54 |
| 10 | 54 | 50 | 51 | 48 | 46 | 44 | 48 | 57 | 57 | 61 | 71 | 69 | 64 | 48 | 71 | 107 | 129 | 138 | 138 | 146 | 111 | 101 | **** | 65 | 77 |
| 11 | 44 | 48 | 15 | 12 | 20 | 12 | 33 | 52 | 40 | 31 | 38 | 36 | 48 | 29 | 23 | 27 | 40 | 29 | 30 | 33 | 24 | 18 | **** | 24 | 31 |
| 12 | 15 | 11 | 14 | 9 | 9 | 9 | 13 | 17 | 17 | 17 | 19 | 17 | 20 | 18 | 17 | 27 | 26 | 35 | 28 | 22 | 20 | 41 | **** | 27 | 19 |
| 13 | 22 | 24 | 18 | 17 | 9 | 13 | 36 | 53 | 45 | 41 | 51 | 65 | 70 | 39 | 31 | 53 | 72 | 101 | 111 | 114 | 114 | 116 | **** | 108 | 58 |
| 14 | 109 | 92 | 98 | 86 | 44 | 9 | 20 | 29 | 30 | 23 | 16 | 15 | 15 | 16 | 17 | 20 | 21 | 22 | 23 | 21 | 17 | 17 | **** | 16 | 34 |
| 15 | 9 | 8 | 7 | 7 | 7 | 9 | 16 | 26 | 23 | 22 | 21 | 21 | 25 | 31 | 38 | 71 | 75 | 82 | 82 | 78 | 68 | 53 | **** | 40 | 36 |
| 16 | 38 | 37 | 36 | 36 | 34 | 35 | 37 | 46 | 45 | 46 | 44 | 44 | 47 | 47 | 50 | 51 | 54 | 53 | 53 | 53 | 55 | 50 | **** | 47 | 45 |
| 17 | 44 | 42 | 39 | 34 | 38 | 37 | 43 | 44 | 47 | 46 | 46 | 45 | 44 | 43 | 55 | 61 | 70 | 70 | 72 | 67 | 60 | 55 | **** | 53 | 50 |
| 18 | 49 | 43 | 40 | 40 | 33 | 33 | 41 | 46 | 50 | 52 | 51 | 48 | 46 | 49 | 57 | 64 | 64 | 65 | 62 | 60 | 58 | 50 | **** | 37 | 50 |
| 19 | 38 | 40 | 30 | 32 | 33 | 31 | 28 | 44 | 52 | 58 | 50 | 42 | 42 | 43 | 56 | 70 | 69 | 89 | 88 | 99 | 87 | 75 | **** | 42 | 54 |
| 20 | 54 | 47 | 36 | 33 | 26 | 34 | 30 | 49 | 46 | 43 | 46 | 44 | 45 | 45 | 47 | 65 | 55 | 77 | 79 | 77 | 64 | 71 | **** | 55 | 51 |
| 21 | 37 | 32 | 26 | 20 | 21 | 20 | 44 | 60 | 76 | 71 | 48 | 40 | 38 | 33 | 28 | 34 | 39 | 46 | 52 | 42 | 33 | 29 | **** | 23 | 39 |
| 22 | 18 | 11 | 11 | 11 | 11 | 16 | 35 | 52 | 58 | 31 | 27 | 46 | 25 | 35 | 31 | 43 | 32 | 65 | 77 | 101 | 96 | 95 | **** | 30 | 42 |
| 23 | 32 | 16 | 12 | 9 | 14 | 22 | 30 | 62 | 86 | 60 | 56 | 67 | 41 | 23 | 23 | 23 | 30 | 32 | 91 | 73 | 52 | 53 | **** | 22 | 40 |
| 24 | 52 | 74 | 74 | 71 | 84 | 76 | 89 | 83 | 93 | 72 | 78 | 69 | 60 | 40 | 41 | 36 | 72 | 99 | 129 | 121 | 116 | 94 | **** | 93 | 79 |
| 25 | 101 | 108 | 100 | 86 | 86 | 91 | 99 | 93 | 90 | 97 | 100 | 88 | 92 | 71 | 77 | 88 | 109 | 118 | 124 | 118 | 119 | 122 | **** | 110 | 99 |
| 26 | 99 | 83 | 86 | 28 | 13 | 14 | 16 | 17 | 18 | 19 | 16 | 16 | 20 | 25 | 26 | 20 | 22 | 21 | 22 | 20 | 18 | 20 | **** | 21 | 29 |
| 27 | 19 | 12 | 12 | 12 | 12 | 11 | 15 | 19 | 21 | 20 | 22 | 23 | 42 | 57 | 63 | 61 | 42 | 35 | 48 | 48 | 44 | 45 | **** | 45 | 32 |
| 28 | 33 | 33 | 35 | 28 | 22 | 22 | 37 | 58 | 70 | 69 | 63 | 64 | 57 | 62 | 60 | 62 | 60 | 65 | 63 | 62 | 52 | 46 | **** | 49 | 51 |
| 29 | 36 | 28 | 23 | 19 | 17 | 15 | 14 | 21 | 25 | 22 | 19 | 17 | 17 | 20 | 24 | 24 | 25 | 25 | 23 | 22 | 48 | 56 | **** | 54 | 26 |
| 30 | 62 | 60 | 57 | 56 | 58 | 59 | 55 | 57 | 63 | 63 | 66 | 61 | 46 | 50 | 58 | 61 | 61 | 61 | 58 | 49 | 41 | 46 | **** | 41 | 56 |
| 31 | 37 | 24 | 20 | 16 | 16 | 15 | 18 | 22 | 27 | 26 | 23 | 25 | 23 | 30 | 26 | 37 | 47 | 43 | 33 | 31 | 30 | 20 | **** | 14 | 26 |

MONTHLY STATISTICS:

| GEOM | | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|-------|----------------------|----|----|-----|-----|-----------------|-------|-----------|------------|---------|--------------|--|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 37 | 42 | 45 | 42 | 83 | 99 | 114 | 122 | 6 | - 146 | 2 | 96 | 0 | 0 | |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: OCTOBER

YEAR : 2009
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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 5 | 5 | 3 | 11 | 11 | 14 | 19 | 18 | M | 12 | 17 | 29 | 16 | 9 | 4 | 9 |
| 2 | 4 | 6 | 5 | 5 | 4 | 4 | 3 | 4 | 5 | 6 | 5 | 4 | 11 | 19 | 9 | 7 | 2 | M | 4 | 4 | 6 | 6 | 6 | 6 | 6 |
| 3 | 7 | 12 | 15 | 10 | 10 | 10 | 10 | 9 | 9 | 8 | 9 | 11 | 26 | 25 | 26 | 29 | 22 | M | 21 | 32 | 27 | 17 | 9 | 7 | 16 |
| 4 | 8 | 12 | 34 | 23 | 11 | 11 | 10 | 11 | 11 | 10 | 10 | 14 | 17 | 17 | 12 | 15 | 14 | M | 22 | 33 | 50 | 48 | 35 | 37 | 20 |
| 5 | 31 | 21 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 12 | 11 | 16 | 32 | 32 | 16 | 11 | 16 | 12 | 11 | 10 | 11 | **** | 14 | 16 |
| 6 | 14 | 12 | 10 | 10 | 8 | 7 | 6 | 7 | 6 | 6 | 7 | 16 | 11 | 13 | 14 | 27 | 18 | 22 | 30 | 59 | 51 | 47 | **** | 27 | 19 |
| 7 | 14 | 8 | 6 | 5 | 9 | 9 | 7 | 6 | 35 | 24 | 34 | 28 | 27 | 27 | 20 | 20 | 20 | 25 | 28 | 35 | 45 | 19 | **** | 7 | 20 |
| 8 | 7 | 6 | 5 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 23 | 32 | 13 | 9 | 10 | 12 | 11 | **** | 9 | 9 |
| 9 | 10 | 9 | 10 | 9 | 9 | 8 | 8 | 18 | 16 | 13 | 13 | 20 | 25 | 24 | 26 | 34 | 32 | 25 | 25 | 25 | 45 | 17 | **** | 13 | 19 |
| 10 | 9 | 10 | 9 | 7 | 8 | 8 | 10 | 14 | 13 | 12 | 12 | 10 | 14 | 19 | 15 | 10 | 10 | 10 | 12 | 11 | 9 | 8 | **** | 5 | 11 |
| 11 | 5 | 5 | 6 | 6 | 4 | 5 | 6 | 5 | 5 | 7 | 8 | 5 | 5 | 5 | 5 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | **** | 1 | 4 |
| 12 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | **** | 2 | 2 |
| 13 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | **** | 4 | 1 |
| 14 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 4 | 4 | 6 | 7 | 6 | 4 | 4 | 6 | 5 | 3 | 4 | 4 | 2 | **** | 2 | 3 |
| 15 | 2 | 2 | 2 | 3 | 4 | 5 | 9 | 6 | 6 | 7 | 7 | 13 | 28 | 10 | 15 | 12 | 7 | 6 | 6 | 5 | 4 | 3 | **** | 3 | 7 |
| 16 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 6 | 6 | 5 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 5 | **** | 3 | 5 |
| 17 | 4 | 3 | 2 | 2 | 3 | 5 | <-----T-----> | 14 | 11 | 9 | 10 | 10 | 10 | 10 | 11 | 6 | 6 | 6 | 5 | 6 | 6 | 10 | **** | 6 | 7 |
| 18 | 5 | 4 | 5 | 5 | 6 | 6 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 7 | 8 | 6 | **** | 6 | 7 |
| 19 | 5 | 5 | 3 | 3 | 5 | 4 | 4 | 5 | 5 | 6 | 5 | 6 | 5 | 5 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | **** | 2 | 4 |
| 20 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 3 | 4 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | **** | 2 | 2 |
| 21 | 3 | 3 | 4 | 3 | 3 | 5 | 7 | 9 | 10 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 6 | 6 | 5 | **** | 4 | 7 |
| 22 | 4 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 9 | 12 | 25 | 24 | 36 | 30 | 32 | 9 | 10 | 4 | 2 | 3 | 3 | 4 | **** | 2 | 10 |
| 23 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | M | 5 | 5 | 6 | 12 | 15 | 12 | 6 | 5 | 7 | 6 | 6 | **** | 7 | 5 |
| 24 | 6 | 6 | 7 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 3 | 3 | 4 | 4 | **** | 6 | 4 |
| 25 | 3 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 4 | 5 | 5 | 3 | 3 | 1 | 2 | 1 | 1 | **** | 1 | 2 |
| 26 | 4 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | **** | 0 | 2 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 1 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | **** | 0 | 1 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 1 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | M | 4 | 4 | 4 | 6 | 5 | 6 | 4 | **** | 3 | 2 |
| 31 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 4 | 4 | 10 | 17 | 16 | 18 | 17 | 20 | 38 | 46 | 28 | 15 | **** | 15 | 12 |

MONTHLY STATISTICS:

| GEOM | ARITH | PERCENTILE | | | | | RANGE | | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|------------|----|----|----|----|-------|-------|-----------|------------|----------|---------|--------------|--|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | | |
| 4 | 5 | 5 | 18 | 27 | 34 | 42 | 0 | - 59 | 4 | 95 | 0 | 0 | | |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: OCTOBER

YEAR : 2009
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 | 37 | 29 | 26 | 13 | 24 | 32 | 19 | 27 | 36 | 29 | 27 | 25 | 29 | 23 | 39 | 40 | 34 | M | 43 | 41 | 53 | 34 | 48 | 33 | 32 |
| 2 | 41 | 38 | 16 | 25 | 20 | 12 | 17 | 31 | 35 | 36 | 33 | 27 | 40 | 37 | 27 | 29 | 12 | M | 19 | 23 | 23 | 12 | 24 | 32 | 26 |
| 3 | 47 | 65 | 67 | 32 | 17 | 19 | 25 | 27 | 32 | 37 | 48 | 41 | 40 | 42 | 46 | 32 | 24 | M | 24 | 28 | 41 | 26 | 11 | 3 | 34 |
| 4 | 10 | 32 | 85 | 42 | 20 | 18 | 19 | 23 | 30 | 28 | 26 | 31 | 35 | 29 | 26 | 35 | 36 | M | 58 | 73 | 91 | 98 | 73 | 67 | 43 |
| 5 | 73 | 37 | 18 | 12 | 12 | 14 | 22 | 34 | 51 | 60 | 43 | 45 | 49 | 56 | 46 | 44 | 49 | 43 | 44 | 54 | 67 | 64 | **** | 30 | 42 |
| 6 | 35 | 21 | 13 | 12 | 12 | 11 | 17 | 44 | 43 | 51 | 42 | 49 | 38 | 30 | 35 | 47 | 46 | 27 | 30 | 39 | 45 | 38 | **** | 25 | 33 |
| 7 | 15 | 8 | 4 | 2 | 1 | 5 | 16 | 26 | 29 | 34 | 52 | 71 | 63 | 44 | 24 | 32 | 30 | 27 | 29 | 33 | 83 | 10 | **** | 4 | 28 |
| 8 | 4 | 5 | 3 | 2 | 4 | 6 | 10 | 27 | 30 | 42 | 27 | 23 | 21 | 19 | 20 | 31 | 46 | 19 | 13 | 10 | 10 | 8 | **** | 8 | 17 |
| 9 | 7 | 5 | 6 | 7 | 3 | 3 | 12 | 41 | 72 | 62 | 70 | 57 | 44 | 38 | 28 | 42 | 40 | 44 | 59 | 83 | 61 | 51 | **** | 26 | 37 |
| 10 | 10 | 14 | 17 | 9 | 19 | 25 | 26 | 40 | 52 | 41 | 26 | 28 | 45 | 47 | 41 | 38 | 39 | 54 | 45 | 37 | 33 | 19 | **** | 19 | 32 |
| 11 | 16 | 13 | 11 | 10 | 7 | 9 | 11 | 10 | 12 | 14 | 16 | 11 | 8 | 9 | 12 | 12 | 7 | 6 | 7 | 6 | 6 | 6 | **** | 9 | 10 |
| 12 | 6 | 3 | 2 | 2 | 2 | 1 | 5 | 10 | 21 | 18 | 16 | 16 | 13 | 15 | 9 | 10 | 12 | 8 | 13 | 14 | 9 | 6 | **** | 8 | 10 |
| 13 | 4 | 3 | 2 | 1 | 1 | 1 | 4 | 13 | 22 | 8 | 6 | 8 | 15 | 15 | 16 | 23 | 19 | 31 | 30 | 25 | 25 | 16 | **** | 22 | 14 |
| 14 | 9 | 7 | 3 | 3 | 4 | 4 | 5 | 13 | 15 | 19 | 36 | 43 | 34 | 26 | 13 | 14 | 31 | 35 | 24 | 32 | 21 | 18 | **** | 21 | 19 |
| 15 | 18 | 12 | 7 | 6 | 13 | 21 | 31 | 46 | 49 | 55 | 64 | 61 | 52 | 19 | 26 | 36 | 29 | 13 | 28 | 24 | 22 | 20 | **** | 16 | 29 |
| 16 | 14 | 12 | 8 | 7 | 6 | 6 | 9 | 14 | 20 | 20 | 21 | 23 | 23 | 33 | 29 | 18 | 14 | 31 | 40 | 45 | 36 | 28 | **** | 31 | 21 |
| 17 | 27 | 21 | 11 | 13 | 11 | 10 | <----- T -----> | 41 | 37 | 29 | 29 | 27 | 23 | 25 | 15 | 15 | 15 | 15 | 13 | 17 | 17 | 17 | **** | 10 | 20 |
| 18 | 14 | 9 | 8 | 9 | 8 | 8 | 8 | 9 | 14 | 16 | 17 | 12 | 12 | 11 | 10 | 13 | 16 | 19 | 22 | 23 | 17 | 15 | **** | 16 | 13 |
| 19 | 10 | 9 | 4 | 2 | 4 | 4 | 7 | 18 | 17 | 18 | 11 | 14 | 11 | 10 | 12 | 10 | 11 | 8 | 13 | 9 | 10 | 5 | **** | 11 | 10 |
| 20 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 13 | 12 | 11 | 15 | 12 | 10 | 16 | 16 | 16 | 15 | 8 | 8 | 8 | 4 | **** | 8 | 8 |
| 21 | 9 | 5 | 5 | 2 | 2 | 4 | 6 | 17 | 50 | 25 | 24 | 22 | 24 | 19 | 29 | 39 | 39 | 27 | 20 | 36 | 34 | 27 | **** | 20 | 21 |
| 22 | 24 | 14 | 13 | 11 | 7 | 8 | 13 | 43 | 65 | 63 | 64 | 59 | 65 | 48 | 35 | 46 | 58 | 75 | 122 | 123 | 115 | 91 | **** | 101 | 55 |
| 23 | 46 | 13 | 11 | 12 | 11 | 16 | 17 | 35 | 67 | 65 | M | 54 | 49 | 37 | 52 | 68 | 64 | 57 | 107 | 117 | 74 | 71 | **** | 112 | 53 |
| 24 | 134 | 113 | 117 | 60 | 18 | 8 | 14 | 27 | 14 | 24 | 24 | 26 | 25 | 20 | 21 | 28 | 24 | 37 | 53 | 55 | 124 | 106 | **** | 66 | 50 |
| 25 | 33 | 34 | 27 | 9 | 8 | 5 | 3 | 4 | 7 | 13 | 16 | 15 | 20 | 23 | 21 | 22 | 22 | 20 | 13 | 24 | 23 | 16 | **** | 12 | 17 |
| 26 | 18 | 34 | 45 | 24 | 4 | 4 | 5 | 10 | 9 | 7 | 8 | 11 | 17 | 18 | 18 | 23 | 11 | 14 | 22 | 14 | 9 | 16 | **** | 13 | 15 |
| 27 | 9 | 8 | 5 | 5 | 6 | 5 | 6 | 15 | 29 | 28 | 21 | 20 | 17 | 17 | 12 | 10 | 8 | 11 | 17 | 18 | 19 | 12 | **** | 11 | 13 |
| 28 | 8 | 6 | 5 | 4 | 4 | 5 | 9 | 16 | 18 | 26 | 22 | 21 | 16 | 14 | 23 | 23 | 55 | 53 | 63 | 65 | 64 | 34 | **** | 23 | 25 |
| 29 | 13 | 8 | 8 | 7 | 6 | 9 | 12 | 19 | 25 | 26 | 19 | 17 | 18 | 18 | 19 | 8 | 12 | 40 | 32 | 31 | 16 | **** | 25 | 18 | |
| 30 | 22 | 9 | 9 | 6 | 6 | 5 | 6 | 13 | 26 | 23 | 10 | 7 | 8 | 7 | M | 20 | 20 | 18 | 42 | 34 | 26 | 22 | **** | 14 | 16 |
| 31 | 9 | 9 | 7 | 8 | 8 | 7 | 9 | 15 | 25 | 22 | 24 | 28 | 36 | 35 | 29 | 28 | 47 | 57 | 83 | 106 | 125 | 84 | **** | 98 | 39 |

MONTHLY STATISTICS:

| GEOM | | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|-------|------------------------|----|----|----|-----|-------------------|-------|-----------|------------|---------|--------------|--|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 18 | 19 | 26 | 19 | 53 | 67 | 98 | 114 | 0 | - 134 | 2 | 95 | 0 | 0 | |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: NOVEMBER

YEAR : 2009
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 | 12 | 13 | 9 | 8 | 9 | 8 | 9 | 9 | 10 | 35 | 38 | 46 | 29 | 16 | 7 | 12 | 12 | 9 | 8 | 9 | 12 | 10 | **** | 11 | 15 |
| 2 | 11 | 10 | 8 | 7 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 7 | 6 | 6 | 6 | 8 | 9 | 11 | 13 | 14 | 14 | 13 | **** | 13 | 9 |
| 3 | 13 | 13 | 13 | 13 | 12 | 11 | 11 | 12 | 12 | 13 | 13 | 13 | 13 | 14 | 11 | 12 | 13 | 14 | 15 | 15 | 14 | 13 | **** | 13 | 13 |
| 4 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 9 | 14 | 15 | 9 | 15 | 17 | 14 | 26 | 24 | 17 | 18 | 15 | 9 | 9 | 8 | **** | 5 | 13 |
| 5 | 6 | 6 | 6 | 7 | 8 | 8 | 7 | 12 | 14 | 12 | 16 | 20 | 21 | 28 | 21 | 25 | 13 | 16 | 10 | 18 | 30 | 27 | **** | 15 | 15 |
| 6 | 13 | 17 | 8 | 7 | 6 | 6 | 7 | 5 | 7 | 10 | 12 | 9 | 8 | 8 | 12 | 9 | 8 | 7 | 5 | 5 | 8 | 6 | **** | 8 | 8 |
| 7 | 9 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 5 | 12 | 8 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | **** | 2 | 4 |
| 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 12 | 23 | 20 | 28 | 15 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | **** | 2 | 6 |
| 9 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 4 | 8 | 9 | 3 | 2 | 4 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 4 | **** | 4 | 3 |
| 10 | 5 | 16 | 38 | 15 | 11 | 7 | 8 | 15 | 7 | 5 | 3 | 14 | 6 | 3 | 7 | 15 | 16 | 3 | 11 | 6 | 5 | 6 | **** | 3 | 10 |
| 11 | 2 | 4 | 3 | 8 | 11 | 6 | 6 | 6 | 6 | 5 | 4 | 6 | 8 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | **** | 2 | 4 |
| 12 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 5 | 4 | 6 | 8 | 6 | 6 | 5 | 9 | 11 | 13 | 27 | 29 | 27 | 23 | **** | 16 | 9 |
| 13 | 17 | 33 | 30 | 27 | 29 | 16 | 12 | 9 | 8 | 11 | 16 | 17 | 17 | 18 | 14 | 15 | 20 | 18 | 9 | 8 | 4 | 5 | **** | 4 | 16 |
| 14 | 6 | 6 | 12 | 14 | 13 | 10 | 6 | 5 | 17 | 20 | 15 | 6 | 21 | 21 | 21 | 10 | 11 | 18 | 8 | 9 | 11 | 8 | **** | 8 | 12 |
| 15 | 8 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 7 | 5 | 4 | 4 | 3 | 3 | **** | 3 | 6 |
| 16 | 2 | 2 | 5 | 8 | 5 | 7 | 7 | 6 | 4 | 6 | 6 | 8 | 8 | 8 | 9 | 13 | 11 | 10 | 7 | 10 | 6 | 8 | **** | 2 | 7 |
| 17 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 8 | 10 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | **** | 8 | 6 |
| 18 | 7 | 7 | 8 | 9 | 12 | 6 | 7 | 6 | 7 | 8 | 12 | 10 | 7 | 8 | 8 | 12 | 14 | 16 | 22 | 11 | 13 | 16 | **** | 20 | 11 |
| 19 | 6 | 3 | 3 | 5 | 11 | 15 | 17 | 16 | 13 | 13 | 19 | 22 | 29 | 31 | 26 | 22 | 21 | 35 | 40 | 19 | 12 | 12 | **** | 11 | 17 |
| 20 | 10 | 10 | 10 | 12 | 17 | 19 | 14 | 8 | 8 | 9 | 14 | 28 | 34 | 20 | 16 | 15 | 24 | 25 | 11 | 5 | 4 | 4 | **** | 5 | 14 |
| 21 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 12 | 29 | 23 | 25 | 21 | 15 | 16 | 24 | 22 | 20 | 23 | 24 | 17 | 15 | **** | 14 | 15 |
| 22 | 15 | 25 | 16 | 11 | 10 | 11 | 11 | 12 | 12 | 12 | 14 | 14 | 14 | 20 | 27 | 28 | 27 | 16 | 14 | 13 | 13 | 13 | **** | 13 | 16 |
| 23 | 9 | 9 | 10 | 10 | 11 | 11 | 9 | 9 | 8 | 8 | 7 | 5 | 3 | 3 | 6 | 11 | 33 | 23 | 20 | 23 | 62 | 16 | **** | 5 | 14 |
| 24 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 10 | 8 | 33 | 34 | 27 | 37 | 42 | 30 | 34 | 40 | 29 | 28 | 46 | 51 | **** | 34 | 22 |
| 25 | 24 | 16 | 12 | 6 | 4 | 5 | 4 | 4 | 5 | 6 | 16 | 17 | 15 | 15 | 8 | 7 | 7 | 6 | 8 | 12 | 13 | 9 | **** | 4 | 10 |
| 26 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | **** | 4 | 3 |
| 27 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 7 | 8 | 7 | 6 | 5 | 4 | 9 | 8 | 10 | 12 | 14 | 16 | 31 | 34 | 34 | **** | 61 | 13 |
| 28 | 62 | 23 | 8 | 6 | 5 | 4 | 3 | 4 | 5 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 9 | 8 | 10 | 7 | **** | 5 | 9 |
| 29 | 5 | 4 | 6 | 5 | 5 | 4 | 5 | 4 | 6 | 7 | 8 | 11 | 19 | 22 | 21 | 12 | 18 | 24 | 23 | 23 | 10 | 9 | **** | 8 | 11 |
| 30 | 7 | 7 | 7 | 7 | 6 | 6 | 8 | 7 | 14 | 23 | 29 | 21 | 12 | 11 | 14 | 15 | 16 | 19 | 26 | 21 | 11 | 10 | **** | 11 | 13 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | | STD GEOM | PERCENT | NO. OF TIMES | | | |
|------|--------|------------------------|----|----|----|----|-------------------|-------|----|-----------|------------|---------|--------------|----|---|---|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | | DEVIATION | VALID DATA | 1-HR | 24-HR | | | |
| 8 | 8 | 8 | 23 | 29 | 35 | 41 | 1 | - | 62 | 3 | - | 22 | 2 | 96 | 0 | 0 |

- NOTES: 1. FLAGS FOR INVALID DATA :
 **** : DAILY ZERO/SPAN CHECK
 D : DYNAMIC CALIBRATION
 T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 M : MAINTENANCE OR MACHINE SHUTDOWN
 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: NOVEMBER

YEAR : 2009
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 | 68 | 42 | 20 | 14 | 14 | 16 | 22 | 37 | 35 | 61 | 75 | 69 | 42 | 37 | 27 | 33 | 36 | 28 | 20 | 22 | 28 | 29 | **** | 25 | 35 |
| 2 | 17 | 14 | 14 | 12 | 12 | 14 | 20 | 31 | 38 | 36 | 30 | 31 | 27 | 29 | 30 | 37 | 44 | 55 | 51 | 43 | 39 | 34 | **** | 31 | 30 |
| 3 | 28 | 18 | 14 | 13 | 13 | 15 | 23 | 39 | 54 | 64 | 51 | 21 | 21 | 40 | 25 | 23 | 26 | 35 | 50 | 72 | 61 | 63 | **** | 60 | 36 |
| 4 | 41 | 32 | 21 | 15 | 14 | 18 | 15 | 29 | 52 | 82 | 73 | 61 | 55 | 52 | 66 | 97 | 89 | 64 | 68 | 59 | 46 | 38 | **** | 34 | 49 |
| 5 | 27 | 45 | 43 | 26 | 10 | 10 | 19 | 66 | 83 | 65 | 66 | 74 | 81 | 81 | 77 | 81 | 53 | 75 | 53 | 72 | 89 | 102 | **** | 74 | 60 |
| 6 | 63 | 54 | 23 | 17 | 15 | 13 | 16 | 22 | 46 | 52 | 47 | 30 | 25 | 29 | 44 | 46 | 48 | 70 | 79 | 87 | 73 | 45 | **** | 45 | 43 |
| 7 | 35 | 15 | 13 | 10 | 8 | 8 | 13 | 21 | 22 | 16 | 19 | 24 | 31 | 28 | 26 | 23 | 25 | 46 | 43 | 37 | 38 | 12 | **** | 12 | 23 |
| 8 | 6 | 5 | 5 | 3 | 4 | 4 | 4 | 11 | 17 | 34 | 40 | 40 | 41 | 26 | 24 | 10 | 9 | 24 | 36 | 35 | 36 | 24 | **** | 7 | 19 |
| 9 | 6 | 3 | 2 | 2 | 2 | 2 | 4 | 19 | 29 | 34 | 19 | 14 | 15 | 8 | 7 | 16 | 13 | 9 | 9 | 7 | 11 | 18 | **** | 13 | 11 |
| 10 | 12 | 14 | 21 | 10 | 16 | 16 | 13 | 14 | 15 | 11 | 8 | 12 | 10 | 9 | 13 | 18 | 21 | 18 | 26 | 20 | 19 | 19 | **** | 9 | 15 |
| 11 | 5 | 8 | 5 | 9 | 12 | 10 | 8 | 9 | 12 | 8 | 6 | 9 | 8 | 5 | 6 | 8 | 8 | 6 | 5 | 4 | 3 | 4 | **** | 6 | 7 |
| 12 | 2 | 2 | 3 | 4 | 4 | 4 | 6 | 9 | 8 | 7 | 15 | 18 | 16 | 16 | 14 | 20 | 21 | 26 | 39 | 46 | 49 | 47 | **** | 41 | 18 |
| 13 | 37 | 31 | 31 | 31 | 30 | 28 | 27 | 28 | 28 | 30 | 29 | 31 | 33 | 37 | 39 | 47 | 63 | 68 | 51 | 40 | 24 | 27 | **** | 43 | 36 |
| 14 | 45 | 46 | 43 | 39 | 31 | 32 | 35 | 39 | 43 | 48 | 44 | 38 | 46 | 52 | 57 | 64 | 63 | 59 | 59 | 56 | 42 | 31 | **** | 20 | 45 |
| 15 | 18 | 18 | 15 | 14 | 13 | 13 | 16 | 19 | 17 | 18 | 20 | 19 | 19 | 22 | 22 | 21 | 17 | 14 | 12 | 11 | 12 | 11 | **** | 14 | 16 |
| 16 | 15 | 13 | 28 | 38 | 34 | 31 | 28 | 30 | 29 | 36 | 38 | 34 | 37 | 37 | 44 | 45 | 47 | 46 | 46 | 46 | 42 | 40 | **** | 25 | 35 |
| 17 | 22 | 18 | 16 | 13 | 15 | 15 | 19 | 19 | 32 | 29 | 26 | 29 | 33 | 33 | 33 | 32 | 36 | 37 | 37 | 30 | 29 | 33 | **** | 35 | 27 |
| 18 | 29 | 25 | 24 | 22 | 24 | 17 | 23 | 32 | 39 | 37 | 36 | 38 | 39 | 44 | 51 | 53 | 66 | 69 | 65 | 58 | 56 | 54 | **** | 48 | 41 |
| 19 | 30 | 25 | 14 | 16 | 23 | 33 | 39 | 41 | 44 | 41 | 45 | 48 | 60 | 63 | 68 | 65 | 86 | 105 | 110 | 88 | 72 | 70 | **** | 66 | 54 |
| 20 | 58 | 51 | 42 | 44 | 43 | 42 | 35 | 33 | 38 | 35 | 38 | 41 | 55 | 47 | 45 | 47 | 63 | 73 | 48 | 35 | 38 | 38 | **** | 42 | 45 |
| 21 | 34 | 21 | 19 | 13 | 16 | 19 | 22 | 45 | 52 | 61 | 56 | 57 | 55 | 56 | 60 | 76 | 88 | 100 | 88 | 81 | 58 | 40 | **** | 38 | 50 |
| 22 | 65 | 64 | 52 | 23 | 21 | 19 | 20 | 34 | 29 | 28 | 34 | 44 | 39 | 42 | 54 | 59 | 63 | 64 | 75 | 60 | 44 | 69 | **** | 65 | 46 |
| 23 | 22 | 17 | 20 | 22 | 21 | 12 | 14 | 16 | 23 | 33 | 37 | 29 | 24 | 28 | 30 | 37 | 97 | 107 | 97 | 119 | 179 | 82 | **** | 41 | 48 |
| 24 | 30 | 19 | 15 | 8 | 8 | 8 | 14 | 22 | 44 | 54 | 78 | 72 | 65 | 72 | 65 | 52 | 72 | 101 | 105 | 84 | 123 | 119 | **** | 144 | 60 |
| 25 | 112 | 63 | 40 | 16 | 13 | 14 | 12 | 40 | 30 | 46 | 51 | 45 | 42 | 35 | 30 | 34 | 45 | 83 | 106 | 119 | 75 | 41 | **** | 45 | 49 |
| 26 | 22 | 13 | 11 | 10 | 8 | 8 | 12 | 22 | 26 | 27 | 25 | 20 | 19 | 18 | 16 | 23 | 23 | 34 | 53 | 50 | 21 | 27 | **** | 19 | 22 |
| 27 | 15 | 17 | 12 | 11 | 10 | 10 | 13 | 26 | 32 | 28 | 31 | 32 | 22 | 32 | 32 | 44 | 65 | 93 | 72 | 101 | 110 | 124 | **** | 117 | 46 |
| 28 | 118 | 42 | 21 | 13 | 10 | 9 | 11 | 14 | 17 | 14 | 12 | 13 | 17 | 17 | 15 | 25 | 35 | 62 | 65 | 62 | 62 | 34 | **** | 16 | 31 |
| 29 | 16 | 15 | 16 | 11 | 9 | 11 | 14 | 16 | 22 | 23 | 41 | 36 | 43 | 47 | 40 | 33 | 41 | 72 | 73 | 81 | 43 | 22 | **** | 34 | 33 |
| 30 | 31 | 25 | 17 | 13 | 9 | 8 | 11 | 28 | 66 | 80 | 79 | 70 | 49 | 47 | 48 | 44 | 60 | 67 | 97 | 108 | 43 | 36 | **** | 49 | 47 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|------------------------|----|----|-----|-----|-------------------|-------|-----------|------------|---------|--------------|--|
| MEAN | MEDIAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 28 | 31 | 31 | 70 | 83 | 107 | 119 | 2 | - 179 | 2 | 96 | 0 | 0 | |

- NOTES:
1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: DECEMBER

YEAR : 2009
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 | 11 | 7 | 6 | 6 | 7 | 8 | 6 | 7 | 8 | 18 | 41 | 25 | 26 | 24 | 20 | 21 | 13 | 8 | 7 | 7 | 7 | 9 | **** | 5 | 13 |
| 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 8 | 7 | 7 | 7 | 14 | 20 | 32 | 23 | 27 | 27 | 26 | 29 | 15 | **** | 9 | 14 |
| 3 | 7 | 5 | 5 | 6 | 8 | 11 | 12 | 12 | 15 | 14 | 14 | 13 | 14 | 14 | 12 | 11 | 9 | 12 | 15 | 17 | 17 | 17 | **** | 12 | 12 |
| 4 | 12 | 14 | 11 | 11 | 12 | 12 | 11 | 13 | 13 | 14 | 13 | 33 | 17 | 18 | 14 | 13 | 25 | 18 | 16 | 31 | 41 | 38 | **** | 49 | 20 |
| 5 | 46 | 49 | 26 | 21 | 18 | 16 | 14 | 22 | 24 | 20 | 14 | 12 | 13 | 13 | 13 | 12 | 11 | 10 | 9 | 9 | 9 | 23 | **** | 11 | 18 |
| 6 | 8 | 9 | 9 | 7 | 8 | 9 | 11 | 12 | 13 | 16 | 15 | 14 | 13 | 11 | 9 | 7 | 7 | 9 | 9 | 7 | 8 | 8 | **** | 5 | 10 |
| 7 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 7 | 5 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 4 | 5 | **** | 3 | 5 |
| 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | **** | 3 | 3 |
| 9 | 3 | 6 | 9 | 8 | 6 | 5 | 5 | 6 | 7 | 5 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 5 | 9 | 18 | 23 | **** | 23 | 7 |
| 10 | 27 | 24 | 28 | 30 | 22 | 20 | 7 | 7 | 7 | 22 | 41 | 78 | 41 | 29 | 27 | 26 | 43 | 31 | 23 | 23 | 17 | 12 | **** | 10 | 26 |
| 11 | 10 | 3 | 2 | 2 | 2 | 2 | 3 | 6 | 5 | 5 | 15 | 17 | 23 | 13 | 7 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | **** | 3 | 6 |
| 12 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 6 | 4 | 3 | 5 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | **** | 3 | 3 |
| 13 | 3 | 6 | 12 | 5 | 4 | 5 | 9 | 11 | 11 | 23 | 17 | 22 | 18 | 22 | 21 | 32 | 31 | 34 | 39 | 28 | 26 | 25 | **** | 37 | 19 |
| 14 | 22 | 54 | 36 | 18 | 14 | 9 | 8 | 8 | 10 | 8 | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 9 |
| 15 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 8 | 9 | 13 | 16 | 6 | 7 | 12 | 15 | **** | 5 | 5 |
| 16 | 5 | 5 | 6 | 6 | 9 | 9 | 6 | 6 | 9 | 7 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 11 | 9 | 8 | **** | 9 | 8 |
| 17 | 8 | 8 | 10 | 21 | 13 | 13 | 17 | 7 | 10 | 8 | 7 | 5 | 5 | 5 | 6 | 7 | 8 | 15 | 16 | 14 | 8 | 8 | **** | 5 | 10 |
| 18 | 4 | 7 | 8 | 6 | 4 | 4 | 4 | 6 | 6 | 7 | 6 | 6 | 9 | 7 | 19 | 8 | 10 | 8 | 6 | 8 | 9 | 6 | **** | 6 | 7 |
| 19 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 9 | 10 | 12 | 12 | 11 | 12 | 10 | 15 | 16 | 9 | 9 | 12 | 24 | 14 | 16 | **** | 10 | 11 |
| 20 | 9 | 9 | 8 | 8 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 13 | 11 | 18 | 18 | 11 | 11 | 12 | 11 | 12 | 12 | **** | 13 | 11 |
| 21 | 13 | 12 | 10 | 10 | 11 | 11 | 10 | 11 | 13 | 12 | 13 | 13 | 11 | 8 | 7 | 9 | 9 | 9 | 8 | 8 | 8 | 10 | **** | 7 | 10 |
| 22 | 7 | 7 | 6 | 5 | 5 | 5 | 5 | 9 | 14 | 11 | <----- D -----> | 10 | 11 | 9 | 7 | 6 | 5 | 5 | 14 | 10 | **** | 6 | 8 | | |
| 23 | 5 | 4 | 5 | 4 | 4 | 4 | 5 | 7 | 21 | 25 | 24 | 26 | 10 | 8 | 1 | 1 | 1 | 2 | 4 | 2 | 2 | 2 | **** | 0 | 7 |
| 24 | 1 | 1 | 2 | 4 | 4 | 7 | 12 | 10 | 10 | 15 | 30 | 20 | 15 | 16 | 19 | 13 | 11 | 11 | 10 | 13 | 9 | 5 | **** | 29 | 12 |
| 25 | 23 | 24 | 19 | 15 | 23 | 17 | 37 | 41 | 45 | 51 | 86 | 65 | 63 | 50 | 28 | 28 | 38 | 41 | 41 | 29 | 25 | 22 | **** | 29 | 37 |
| 26 | 19 | 22 | 13 | 11 | 9 | 9 | 9 | 9 | 11 | 12 | 10 | 9 | 10 | 11 | 11 | 10 | 9 | 9 | 10 | 11 | 10 | 10 | **** | 10 | 11 |
| 27 | 10 | 9 | 8 | 8 | 7 | 6 | 7 | 8 | 8 | 7 | 6 | 6 | 5 | 5 | 6 | 9 | 5 | 3 | 5 | 4 | 8 | 10 | **** | 10 | 7 |
| 28 | 10 | 9 | 8 | 10 | 8 | 8 | 7 | 8 | 10 | 13 | 21 | 22 | 17 | 22 | 18 | 23 | 10 | 10 | 9 | 5 | 4 | 5 | **** | 5 | 11 |
| 29 | 5 | 6 | 6 | 5 | 5 | 4 | 4 | 5 | 4 | 5 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | **** | 5 | 3 |
| 30 | 4 | 3 | 3 | 2 | 4 | 6 | 2 | 1 | 1 | 6 | 12 | 7 | 13 | 10 | 9 | 6 | 3 | 5 | 6 | 3 | 6 | 4 | **** | 4 | 5 |
| 31 | 5 | 3 | 4 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 5 | 7 | 7 | 10 | 10 | 11 | 11 | 12 | 12 | 11 | **** | 10 | 6 |

MONTHLY STATISTICS:

| GEOM | | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD 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 | 8 | 11 | 8 | 23 | 29 | 41 | 49 | 0 | - | 86 | 3 | - | 37 | 3 | 95 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: DECEMBER

YEAR : 2009
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 | 10 | 21 | 21 | 13 | 10 | 9 | 7 | 40 | 79 | 80 | 67 | 49 | 42 | 41 | 49 | 59 | 86 | 62 | 47 | 35 | 32 | **** | 19 | 39 |
| 2 | 15 | 16 | 13 | 11 | 11 | 14 | 15 | 18 | 44 | 50 | 35 | 42 | 50 | 51 | 57 | 79 | 73 | 90 | 94 | 108 | 82 | 52 | **** | 20 | 45 |
| 3 | 22 | 13 | 10 | 13 | 10 | 10 | 13 | 17 | 42 | 37 | 47 | 49 | 43 | 37 | 43 | 51 | 49 | 62 | 98 | 95 | 74 | 53 | **** | 31 | 40 |
| 4 | 37 | 56 | 19 | 15 | 32 | 25 | 18 | 29 | 51 | 53 | 42 | 51 | 34 | 41 | 32 | 36 | 62 | 74 | 84 | 106 | 135 | 78 | **** | 108 | 53 |
| 5 | 91 | 58 | 38 | 38 | 22 | 16 | 21 | 36 | 58 | 63 | 44 | 30 | 28 | 28 | 33 | 29 | 34 | 45 | 42 | 26 | 31 | 34 | **** | 26 | 38 |
| 6 | 26 | 18 | 13 | 10 | 11 | 13 | 14 | 21 | 28 | 32 | 31 | 23 | 20 | 14 | 14 | 15 | 17 | 18 | 20 | 16 | 20 | 19 | **** | 21 | 19 |
| 7 | 16 | 14 | 10 | 9 | 9 | 10 | 12 | 15 | 19 | 26 | 25 | 22 | 20 | 18 | 21 | 25 | 24 | 21 | 22 | 19 | 18 | 18 | **** | 12 | 18 |
| 8 | 9 | 7 | 7 | 12 | 10 | 8 | 10 | 15 | 20 | 24 | 21 | 23 | 29 | 36 | 42 | 47 | 53 | 62 | 54 | 48 | 39 | 38 | **** | 39 | 28 |
| 9 | 39 | 51 | 37 | 37 | 41 | 37 | 40 | 49 | 48 | 45 | 38 | 46 | 40 | 43 | 50 | 58 | 62 | 63 | 66 | 66 | 66 | 64 | **** | 55 | 50 |
| 10 | 53 | 47 | 49 | 47 | 44 | 42 | 18 | 29 | 37 | 70 | 69 | 69 | 58 | 49 | 62 | 90 | 119 | 124 | 126 | 138 | 113 | 69 | **** | 61 | 69 |
| 11 | 57 | 16 | 30 | 16 | 11 | 11 | 16 | 22 | 36 | 39 | 44 | 41 | 42 | 36 | 31 | 42 | 32 | 26 | 36 | 42 | 34 | 24 | **** | 30 | 31 |
| 12 | 26 | 22 | 15 | 14 | 12 | 10 | 12 | 18 | 18 | 18 | 21 | 21 | 21 | 24 | 25 | 37 | 38 | 41 | 33 | 28 | 23 | 31 | **** | 34 | 24 |
| 13 | 35 | 29 | 35 | 19 | 10 | 13 | 23 | 30 | 39 | 52 | 52 | 56 | 46 | 47 | 34 | 39 | 53 | 64 | 100 | 103 | 101 | 112 | **** | 108 | 52 |
| 14 | 52 | 94 | 78 | 52 | 45 | 14 | 15 | 27 | 31 | 28 | 20 | 19 | 21 | 19 | 27 | 22 | 23 | 25 | 25 | 16 | 14 | 12 | **** | 19 | 30 |
| 15 | 14 | 12 | 8 | 8 | 9 | 9 | 12 | 27 | 32 | 28 | 21 | 27 | 39 | 20 | 42 | 60 | 70 | 79 | 75 | 72 | 64 | 51 | **** | 39 | 36 |
| 16 | 37 | 36 | 35 | 34 | 31 | 31 | 31 | 39 | 44 | 43 | 43 | 42 | 40 | 43 | 45 | 47 | 49 | 51 | 51 | 51 | 48 | 47 | **** | 43 | 42 |
| 17 | 40 | 37 | 36 | 36 | 34 | 32 | 39 | 38 | 41 | 38 | 39 | 39 | 37 | 35 | 47 | 52 | 61 | 65 | 66 | 61 | 55 | 50 | **** | 48 | 45 |
| 18 | 45 | 40 | 38 | 37 | 32 | 32 | 35 | 44 | 48 | 50 | 49 | 46 | 45 | 46 | 53 | 58 | 61 | 60 | 58 | 57 | 52 | 44 | **** | 35 | 46 |
| 19 | 37 | 41 | 36 | 30 | 34 | 30 | 32 | 43 | 42 | 56 | 52 | 49 | 52 | 34 | 50 | 66 | 66 | 81 | 76 | 89 | 63 | 43 | **** | 20 | 49 |
| 20 | 15 | 27 | 18 | 11 | 7 | 8 | 6 | 25 | 22 | 33 | 37 | 38 | 42 | 32 | 34 | 49 | 39 | 48 | 43 | 42 | 45 | 46 | **** | 46 | 31 |
| 21 | 33 | 27 | 23 | 19 | 16 | 19 | 28 | 49 | 53 | 43 | 45 | 30 | 33 | 26 | 33 | 29 | 30 | 37 | 50 | 58 | 44 | 35 | **** | 21 | 34 |
| 22 | 18 | 14 | 13 | 14 | 12 | 12 | 14 | 25 | 53 | 56 | <----- D -----> | 37 | 46 | 51 | 52 | 56 | 64 | 64 | 46 | 100 | 39 | **** | 37 | 38 | |
| 23 | 30 | 20 | 14 | 14 | 9 | 11 | 18 | 32 | 59 | 63 | 52 | 63 | 51 | 33 | 12 | 15 | 19 | 49 | 78 | 70 | 30 | 29 | **** | 9 | 34 |
| 24 | 8 | 11 | 18 | 22 | 16 | 19 | 30 | 40 | 56 | 67 | 70 | 60 | 55 | 45 | 37 | 32 | 30 | 51 | 94 | 104 | 78 | 37 | **** | 119 | 48 |
| 25 | 102 | 98 | 88 | 77 | 90 | 80 | 101 | 97 | 59 | 81 | 95 | 90 | 78 | 71 | 66 | 91 | 126 | 125 | 124 | 103 | 107 | 98 | **** | 100 | 93 |
| 26 | 89 | 75 | 75 | 34 | 16 | 15 | 16 | 17 | 19 | 17 | 13 | 13 | 20 | 25 | 26 | 16 | 23 | 20 | 20 | 15 | 15 | 15 | **** | 25 | 27 |
| 27 | 16 | 11 | 11 | 12 | 11 | 12 | 14 | 19 | 20 | 18 | 19 | 28 | 25 | 38 | 50 | 53 | 39 | 29 | 43 | 35 | 31 | 38 | **** | 39 | 27 |
| 28 | 25 | 28 | 30 | 25 | 17 | 14 | 24 | 47 | 59 | 65 | 61 | 60 | 54 | 59 | 47 | 55 | 57 | 60 | 60 | 54 | 55 | 49 | **** | 42 | 45 |
| 29 | 33 | 30 | 24 | 20 | 18 | 16 | 12 | 19 | 22 | 18 | 15 | 14 | 14 | 14 | 21 | 19 | 28 | 20 | 12 | 17 | 42 | 34 | **** | 41 | 22 |
| 30 | 46 | 43 | 51 | 34 | 43 | 53 | 37 | 41 | 46 | 67 | 67 | 58 | 56 | 51 | 42 | 44 | 48 | 38 | 50 | 38 | 39 | 39 | **** | 28 | 46 |
| 31 | 26 | 16 | 16 | 14 | 14 | 14 | 17 | 19 | 31 | 31 | 32 | 26 | 24 | 19 | 30 | 44 | 38 | 40 | 38 | 38 | 29 | 23 | **** | 18 | 26 |

MONTHLY STATISTICS:

| GEOM | | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|-------|------------------------|----|----|-----|-----|-------------------|-------|-----------|------------|---------|--------------|--|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR | |
| 33 | 36 | 39 | 36 | 70 | 91 | 107 | 119 | 6 | - 138 | 2 | 95 | 0 | 0 | |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: OCTOBER YEAR : 2009
POLLUTANT : SULPHUR DIOXIDE 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 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 1 | 10 | 5 | 15 | 18 | 11 | 13 | 16 | 29 | 32 | 22 | **** | 8 | 9 |
| 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 22 | 16 | 10 | 6 | 1 | 0 | 0 | 3 | 3 | 4 | 5 | 5 | 7 | **** | 10 | 5 |
| 3 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 7 | 6 | 6 | 7 | 6 | 5 | 22 | 20 | 12 | 18 | 14 | 15 | 18 | 11 | 9 | **** | 9 | 10 |
| 4 | 7 | 7 | 12 | 30 | 12 | 11 | 10 | 11 | 11 | 10 | 9 | 12 | 15 | 18 | 12 | 15 | 31 | 27 | 19 | 27 | 38 | 36 | **** | 27 | 18 |
| 5 | 28 | 22 | 18 | 19 | 19 | 17 | 16 | 16 | 15 | 13 | 12 | 14 | 11 | 16 | 33 | 26 | 20 | 25 | 19 | 14 | 14 | 12 | **** | 17 | 18 |
| 6 | 15 | 13 | 12 | 11 | 12 | 9 | 8 | 7 | 10 | 6 | 5 | 21 | 12 | 20 | 23 | 18 | 12 | 32 | 34 | 37 | 37 | 32 | **** | 33 | 18 |
| 7 | 16 | 9 | 8 | 6 | 6 | 6 | 7 | 9 | 11 | 15 | 26 | 38 | 39 | 28 | 20 | 23 | 24 | 25 | 28 | 30 | 21 | 17 | **** | 11 | 18 |
| 8 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 5 | 4 | 5 | 6 | 6 | 4 | 7 | 13 | 19 | 7 | 10 | 11 | 12 | 10 | **** | 10 | 8 |
| 9 | 8 | 8 | 7 | 8 | 7 | 7 | 6 | 6 | 8 | 17 | 25 | 15 | 29 | 16 | 14 | 17 | 18 | 20 | 20 | 26 | 28 | 18 | **** | 13 | 15 |
| 10 | 8 | 10 | 9 | 8 | 6 | 6 | 8 | 11 | 11 | 11 | 9 | 7 | 17 | 18 | 7 | 5 | 5 | 9 | 10 | 7 | 7 | 8 | **** | 10 | 9 |
| 11 | 7 | 7 | 8 | 8 | 6 | 5 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 3 | 3 | 5 | 4 | 3 | 3 | 2 | 2 | 2 | **** | 4 | 5 |
| 12 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 4 | 6 | 6 | 7 | 6 | 6 | **** | 9 | 4 |
| 13 | 6 | 7 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 3 | 4 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 4 | 4 | **** | 6 | 3 |
| 14 | 4 | 2 | 3 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 6 | 7 | 4 | 4 | 4 | 4 | 4 | 5 | 3 | 4 | 4 | 2 | **** | 4 | 4 |
| 15 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 5 | 7 | 4 | 3 | 8 | 3 | 1 | 0 | 0 | 1 | 3 | 4 | 4 | 2 | 2 | **** | 3 | 3 |
| 16 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 4 | 4 | 6 | 6 | 4 | 4 | 3 | 3 | 6 | 4 | 4 | 4 | 7 | 5 | 7 | **** | 8 | 4 |
| 17 | 6 | 5 | 4 | 5 | 5 | 7 | 7 | 8 | 18 | 10 | 10 | 8 | 7 | 7 | 6 | 4 | 5 | 8 | 8 | 9 | 9 | 13 | **** | 11 | 8 |
| 18 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 8 | 7 | 9 | 7 | 7 | 5 | 4 | 5 | 6 | 6 | 7 | 7 | 5 | **** | 8 | 7 |
| 19 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 5 | 4 | 3 | 4 | 3 | 4 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | **** | 3 | 2 |
| 20 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 6 | 6 | 5 | 5 | 6 | **** | 9 | 4 | |
| 21 | 7 | 7 | 8 | 6 | 7 | 8 | 10 | 9 | 11 | 10 | 10 | 12 | 10 | 11 | 11 | 11 | 12 | 10 | 7 | 7 | 6 | 6 | **** | 7 | 9 |
| 22 | 5 | 4 | 4 | 5 | 6 | 6 | 5 | 6 | 11 | 12 | 29 | 26 | 23 | 21 | 22 | 23 | 26 | 34 | 27 | 40 | 31 | 32 | **** | 19 | 18 |
| 23 | 12 | 9 | 8 | 8 | 8 | 7 | 8 | 10 | 13 | 30 | 33 | 33 | 40 | 42 | 33 | 26 | 38 | 27 | 40 | 57 | 59 | 56 | **** | 68 | 29 |
| 24 | 69 | 59 | 62 | 37 | 14 | 8 | 8 | 8 | 8 | 9 | 8 | 18 | 17 | 24 | 22 | 31 | 35 | 33 | 32 | 32 | 39 | 54 | **** | 67 | 30 |
| 25 | 47 | 56 | 41 | 38 | 27 | 15 | 10 | 9 | 12 | 10 | 10 | 10 | 10 | 17 | 12 | 13 | 15 | 20 | 24 | 23 | 22 | 20 | **** | 15 | 21 |
| 26 | 17 | 28 | 42 | 24 | 13 | 10 | 9 | 8 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 6 | 11 | 13 | 12 | 10 | 11 | **** | 10 | 12 |
| 27 | 8 | 7 | 7 | 8 | 8 | 6 | 5 | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 8 | 5 | 6 | 6 | 7 | 8 | 9 | 6 | **** | 6 | 6 |
| 28 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 7 | 6 | 5 | 3 | 4 | 3 | 3 | 6 | 6 | 7 | 9 | 8 | **** | 13 | 5 |
| 29 | 10 | 9 | 8 | 7 | 8 | 7 | 5 | 5 | 6 | 7 | 8 | 8 | 7 | 7 | 6 | <--- D ---> | 13 | 9 | 9 | 8 | 8 | 6 | **** | 7 | 8 |
| 30 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 6 | 7 | 7 | 5 | 5 | 8 | 7 | 8 | 6 | 7 | 6 | **** | 6 | 5 |
| 31 | 5 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 5 | 6 | 6 | 6 | 8 | 6 | 8 | 24 | 22 | 28 | 27 | 36 | 32 | 31 | **** | 19 | 13 |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD 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 | 11 | 7 | 26 | 33 | 40 | 56 | 0 | - 69 | 3 | 96 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 MONTH: OCTOBER YEAR : 2009
POLLUTANT : NITROGEN DIOXIDE 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 | 28 | 19 | 20 | 11 | 8 | 18 | 18 | 20 | 21 | 22 | 18 | 13 | 24 | 17 | 23 | 19 | 11 | 11 | 21 | 39 | 40 | 46 | **** | 45 | 22 |
| 2 | 32 | 30 | 22 | 17 | 17 | 9 | 12 | 20 | 28 | 34 | 35 | 29 | 17 | 4 | 3 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | **** | 13 | 14 |
| 3 | 8 | 26 | 17 | 17 | 9 | 11 | 17 | 24 | 29 | 29 | 11 | 7 | 5 | 26 | 19 | 10 | 4 | 2 | 6 | 11 | 13 | 11 | **** | 12 | 14 |
| 4 | 14 | 0 | 22 | 63 | 25 | 11 | 12 | 15 | 22 | 24 | 23 | 25 | 21 | 18 | 17 | 18 | 26 | 28 | 29 | 25 | 36 | 51 | **** | 36 | 24 |
| 5 | 38 | 32 | 11 | 5 | 5 | 3 | 11 | 20 | 39 | 52 | 47 | 44 | 38 | 32 | 32 | 39 | 34 | 32 | 58 | 70 | 69 | 49 | **** | 30 | 34 |
| 6 | 26 | 17 | 12 | 8 | 7 | 9 | 14 | 35 | 52 | 45 | 38 | 45 | 29 | 33 | 33 | 24 | 17 | 31 | 22 | 32 | 30 | 40 | **** | 23 | 27 |
| 7 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 4 | 24 | 33 | 56 | 45 | 16 | 18 | 19 | 15 | 7 | 5 | 12 | 22 | 13 | **** | 2 | 13 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12 | 0 | 0 | 0 | 3 | 7 | **** | 19 | 3 |
| 9 | 7 | 1 | 0 | 0 | 1 | 0 | 10 | 29 | 28 | 44 | 42 | 23 | 22 | 8 | 12 | 16 | 8 | 4 | 26 | 38 | 31 | 17 | **** | 31 | 17 |
| 10 | 17 | 23 | 14 | 2 | 8 | 6 | 20 | 31 | 19 | 29 | 18 | 13 | 26 | 30 | 20 | 30 | 35 | 51 | 29 | 5 | 4 | 4 | **** | 4 | 19 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 3 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 1 |
| 15 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 23 | 42 | 42 | 32 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 2 | 8 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 0 | 0 | **** | 11 | 1 |
| 17 | 0 | 3 | 0 | 0 | 0 | 0 | 5 | 30 | 43 | 38 | 21 | 8 | 8 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 7 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 4 | 2 | 6 | 3 | 0 | **** | 4 | 1 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 1 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 0 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 1 |
| 22 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 39 | 40 | 22 | 27 | 35 | 18 | 11 | 18 | 16 | 14 | 23 | 7 | 11 | 7 | 22 | **** | 5 | 14 |
| 23 | 0 | 4 | 3 | 0 | 0 | 2 | 9 | 3 | 22 | 47 | 51 | 35 | 29 | 25 | 21 | 17 | 25 | 23 | 59 | 83 | 49 | 53 | **** | 118 | 29 |
| 24 | 85 | 64 | 82 | 65 | 21 | 0 | 1 | 0 | 1 | 0 | 10 | 8 | 14 | 10 | 16 | 20 | 13 | 23 | 23 | 16 | 79 | **** | 91 | 28 | |
| 25 | 54 | 46 | 9 | 15 | 1 | 3 | 1 | 1 | 4 | 1 | 0 | 0 | 0 | 3 | 1 | 4 | 2 | 6 | 11 | 8 | 11 | 4 | **** | 12 | 8 |
| 26 | 4 | 17 | 24 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 4 | 3 | 7 | **** | 4 | 4 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | <----- M -----> | 7 | 2 | 1 | 0 | **** | 2 | 1 | | |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 7 | 6 | 3 | 3 | 2 | 3 | 4 | 2 | 9 | 2 | **** | 6 | 2 |
| 29 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 4 | 0 | 0 | 5 | 4 | <---- D ----> | 2 | 13 | 8 | 2 | 1 | **** | 8 | 3 | |
| 30 | 7 | 3 | 0 | 0 | 0 | 0 | 6 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 11 | 24 | **** | 2 | 3 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 9 | 10 | 3 | 11 | 13 | 0 | 2 | 22 | 26 | 62 | 62 | 91 | 154 | 137 | **** | 36 | 28 |

MONTHLY STATISTICS:

| GEOM | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | STD 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 | 2 | 11 | 2 | 32 | 45 | 62 | 81 | 0 - 154 | 0 - 34 | 9 | 95 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: OCTOBER
 YEAR : 2009
 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 | 8 | 4 | 4 | 6 | 7 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 7 | 11 | 9 | 7 | 6 | 7 | 7 | **** | 7 | 6 |
| 2 | 12 | 15 | 9 | 5 | 3 | 5 | 6 | 7 | 8 | 8 | 5 | 7 | 8 | 8 | 5 | 5 | 3 | 6 | 6 | 8 | 7 | 8 | **** | 9 | 7 |
| 3 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 10 | 17 | 19 | 12 | 12 | 13 | 12 | 10 | 8 | 9 | 8 | 7 | 7 | 13 | **** | 9 | 10 |
| 4 | 9 | 8 | 11 | 13 | 10 | 10 | 10 | 11 | 10 | 11 | 10 | 12 | 13 | 12 | 13 | 18 | 11 | 13 | 12 | 14 | 15 | 15 | **** | 47 | 13 |
| 5 | 22 | 23 | 22 | 15 | 15 | 15 | 17 | 18 | 18 | 17 | 17 | 21 | 24 | 27 | 28 | 27 | 23 | 18 | 18 | 16 | 27 | 24 | **** | 15 | 20 |
| 6 | 16 | 12 | 12 | 11 | 10 | 11 | 10 | 10 | 10 | 8 | 8 | 9 | 10 | 13 | 13 | 19 | 24 | 23 | 26 | 25 | 27 | 24 | **** | 15 | 15 |
| 7 | 6 | 8 | 8 | 8 | 8 | 6 | 6 | 10 | 13 | 14 | 14 | 14 | 19 | 15 | 18 | 18 | 19 | 20 | 15 | 18 | 28 | 21 | **** | 10 | 14 |
| 8 | 12 | 12 | 6 | 5 | 7 | 7 | 8 | 8 | 19 | 8 | 7 | 10 | 13 | 13 | 13 | 12 | 13 | 13 | 14 | 14 | 19 | 19 | **** | 12 | 11 |
| 9 | 12 | 12 | 26 | 23 | 22 | 19 | 16 | 17 | 27 | 20 | 15 | 14 | 14 | 18 | 15 | 14 | 15 | 17 | 15 | 16 | 18 | 17 | **** | 22 | 17 |
| 10 | 18 | 14 | 21 | 10 | 15 | 14 | 14 | 17 | 20 | 22 | 16 | 17 | 15 | 13 | 14 | 13 | 13 | 13 | 17 | 11 | 12 | 12 | **** | 9 | 15 |
| 11 | 13 | 18 | 14 | 10 | 5 | 7 | 18 | 11 | 6 | 11 | 8 | 5 | 8 | 6 | 12 | 23 | 5 | 7 | 7 | 3 | 7 | 30 | **** | 21 | 11 |
| 12 | 13 | 8 | 11 | 6 | 3 | 8 | 29 | 93 | 38 | 8 | 50 | 69 | 68 | 37 | 42 | 20 | 4 | 3 | 3 | 6 | 3 | 4 | **** | 5 | 23 |
| 13 | 3 | 3 | 2 | 2 | 1 | 4 | 6 | 50 | 56 | 33 | 9 | 26 | 36 | 9 | 12 | 11 | 10 | 2 | 3 | 4 | 4 | 4 | **** | 17 | 13 |
| 14 | 5 | 8 | 4 | 3 | 2 | 4 | 5 | 4 | 10 | 11 | 6 | 10 | 11 | 8 | 4 | 6 | 7 | 4 | 3 | 6 | 5 | 10 | **** | 16 | 7 |
| 15 | 21 | 10 | 4 | 15 | 11 | 16 | 11 | 8 | 8 | 6 | 12 | 12 | 18 | 12 | 9 | 6 | 7 | 8 | 8 | 14 | 16 | 8 | **** | 8 | 11 |
| 16 | 19 | 15 | 8 | 22 | 19 | 13 | 9 | 16 | 19 | 12 | 18 | 12 | 9 | 10 | 11 | 11 | 10 | 7 | 9 | 15 | 11 | 9 | **** | 9 | 13 |
| 17 | 9 | 6 | 4 | 6 | 5 | 11 | 24 | 14 | 14 | 17 | 21 | 21 | 20 | 11 | 17 | 10 | 7 | 9 | 9 | 11 | 8 | 9 | **** | 11 | 12 |
| 18 | 20 | 33 | 21 | 35 | 29 | 28 | 15 | 8 | 8 | 42 | 12 | 13 | 11 | 11 | 10 | 9 | 9 | 24 | 33 | 35 | 31 | 28 | **** | 44 | 22 |
| 19 | 46 | 37 | 34 | 35 | 54 | 42 | 15 | 47 | 18 | 24 | 16 | 14 | 19 | 13 | 9 | 10 | 14 | 8 | 11 | 11 | 20 | 6 | **** | 33 | 23 |
| 20 | 44 | 37 | 20 | 22 | 9 | 6 | 31 | 26 | 10 | 44 | 59 | 98 | 81 | 70 | 43 | 54 | 7 | 5 | 11 | 14 | 7 | 4 | **** | 48 | 33 |
| 21 | 18 | 30 | 49 | 76 | 43 | 57 | 11 | 10 | 19 | 12 | 13 | 15 | 16 | 14 | 15 | 14 | 14 | 12 | 10 | 10 | 15 | 29 | **** | 18 | 22 |
| 22 | 11 | 8 | 7 | 8 | 12 | 9 | 8 | 12 | 21 | 13 | 14 | 16 | 20 | 20 | 18 | 20 | 17 | 17 | 18 | 21 | 23 | 23 | **** | 29 | 16 |
| 23 | 17 | 14 | 13 | 18 | 15 | 17 | 16 | 16 | 17 | 23 | 16 | 16 | 16 | 21 | 18 | 24 | 28 | 28 | 35 | 42 | 50 | 47 | **** | 36 | 24 |
| 24 | 53 | 82 | 86 | 51 | 29 | 18 | 12 | 11 | 9 | 11 | 13 | 21 | 19 | 16 | 23 | 25 | 31 | 22 | 17 | 13 | 12 | 13 | **** | 15 | 26 |
| 25 | 14 | 12 | 14 | 12 | 10 | 10 | 8 | 6 | 7 | 4 | 9 | 16 | 7 | 4 | 4 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | **** | 0 | 6 |
| 26 | 1 | 1 | 1 | 18 | 16 | 8 | 5 | 6 | 3 | 2 | 3 | 3 | 5 | 4 | 9 | 6 | 13 | 21 | 18 | 14 | 14 | 10 | **** | 8 | 8 |
| 27 | 8 | 7 | 7 | 10 | 15 | 15 | 37 | 41 | 24 | 43 | 40 | 53 | 30 | 10 | 11 | 7 | 6 | 5 | 6 | 6 | 8 | 6 | **** | 5 | 17 |
| 28 | 4 | 3 | 5 | 5 | 5 | 24 | 29 | 28 | 33 | 29 | 29 | 30 | 14 | 10 | 11 | 18 | 14 | 7 | 7 | 8 | 9 | 9 | **** | 12 | 15 |
| 29 | 12 | 9 | 10 | 10 | 7 | 14 | 16 | 17 | 24 | 22 | 22 | 44 | 30 | 22 | 9 | 11 | 11 | 13 | 14 | 12 | 11 | 13 | **** | 10 | 16 |
| 30 | 10 | 11 | 7 | 8 | 5 | 4 | 3 | 5 | 11 | 10 | 6 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 14 | **** | 4 | 7 |
| 31 | 10 | 21 | 19 | 13 | 4 | 3 | 3 | 4 | 6 | 10 | 6 | 7 | 8 | 7 | 20 | 12 | 11 | 10 | 31 | 50 | 46 | 32 | **** | 29 | 16 |

MONTHLY STATISTICS:

| GEOM | | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | STD 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 | 12 | 15 | 12 | 29 | 42 | 53 | 69 | 0 | - | 98 | 6 | - | 33 | 2 | 96 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: OCTOBER
 YEAR : 2009
 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 | 45 | 39 | 36 | 34 | 33 | 29 | 34 | 26 | 27 | 23 | 26 | 25 | 23 | 29 | 11 | 14 | 14 | 10 | 13 | 20 | 43 | 47 | **** | 42 | 28 |
| 2 | 53 | 51 | 34 | 18 | 15 | 29 | 31 | 31 | 28 | 26 | 20 | 26 | 28 | 13 | 5 | 5 | 5 | 9 | 10 | 12 | 9 | 10 | **** | 7 | 21 |
| 3 | 21 | 38 | 41 | 45 | 32 | 19 | 21 | 22 | 27 | 43 | 54 | 20 | 20 | 19 | 19 | 9 | 8 | 9 | 9 | 8 | 10 | 12 | **** | 7 | 22 |
| 4 | 8 | 17 | 39 | 22 | 14 | 21 | 22 | 21 | 19 | 22 | 21 | 33 | 26 | 24 | 23 | 34 | 30 | 42 | 58 | 79 | 110 | 113 | **** | 88 | 38 |
| 5 | 52 | 39 | 28 | 16 | 13 | 16 | 33 | 28 | 33 | 37 | 41 | 40 | 34 | 33 | 32 | 34 | 48 | 53 | 51 | 71 | 92 | 73 | **** | 49 | 41 |
| 6 | 39 | 19 | 15 | 13 | 12 | 21 | 26 | 28 | 31 | 30 | 30 | 36 | 31 | 30 | 36 | 29 | 26 | 27 | 25 | 23 | 23 | 19 | **** | 18 | 26 |
| 7 | 6 | 7 | 6 | 6 | 6 | 9 | 8 | 10 | 35 | 36 | 42 | 40 | 49 | 25 | 22 | 20 | 21 | 25 | 15 | 17 | 21 | 15 | **** | 8 | 20 |
| 8 | 13 | 13 | 7 | 5 | 6 | 8 | 11 | 13 | 19 | 15 | 8 | 10 | 12 | 13 | 11 | 9 | 10 | 12 | 13 | 12 | 13 | 14 | **** | 9 | 11 |
| 9 | 10 | 11 | 17 | 16 | 16 | 14 | 16 | 40 | 55 | 31 | 30 | 37 | 28 | 17 | 10 | 9 | 10 | 14 | 13 | 52 | 62 | 36 | **** | 43 | 26 |
| 10 | 20 | 12 | 16 | 8 | 24 | 24 | 30 | 42 | 55 | 56 | 50 | 53 | 38 | 21 | 22 | 27 | 26 | 29 | 23 | 15 | 16 | 16 | **** | 15 | 28 |
| 11 | 16 | 17 | 16 | 12 | 9 | 16 | 42 | 25 | 11 | 24 | 13 | 8 | 15 | 11 | 11 | 22 | 9 | 14 | 13 | 11 | 11 | 24 | **** | 14 | 16 |
| 12 | 12 | 9 | 10 | 7 | 7 | 9 | 18 | 43 | 22 | 12 | 24 | 28 | 28 | 20 | 23 | 17 | 8 | 7 | 7 | 11 | 7 | 8 | **** | 7 | 15 |
| 13 | 6 | 6 | 4 | 5 | 4 | 7 | 9 | 26 | 29 | 21 | 11 | 14 | 17 | 10 | 13 | 12 | 9 | 4 | 6 | 8 | 7 | 6 | **** | 12 | 11 |
| 14 | 7 | 10 | 6 | 5 | 5 | 6 | 9 | 9 | 11 | 29 | 22 | 51 | 19 | 12 | 6 | 11 | 14 | 8 | 9 | 11 | 9 | 12 | **** | 16 | 13 |
| 15 | 18 | 13 | 7 | 14 | 21 | 41 | 35 | 34 | 39 | 35 | 44 | 51 | 47 | 17 | 10 | 8 | 9 | 8 | 12 | 14 | 13 | 9 | **** | 10 | 22 |
| 16 | 17 | 14 | 8 | 18 | 17 | 15 | 10 | 16 | 17 | 12 | 12 | 10 | 8 | 9 | 9 | 9 | 10 | 8 | 14 | 18 | 14 | 8 | **** | 16 | 13 |
| 17 | 19 | 12 | 11 | 12 | 10 | 33 | 63 | 50 | 45 | 45 | 58 | 57 | 53 | 13 | 22 | 14 | 10 | 12 | 11 | 16 | 11 | 10 | **** | 12 | 26 |
| 18 | 15 | 19 | 13 | 20 | 18 | 18 | 13 | 10 | 14 | 25 | 13 | 9 | 11 | 10 | 10 | 12 | 12 | 20 | 21 | 23 | 22 | 17 | **** | 20 | 16 |
| 19 | 25 | 23 | 19 | 20 | 28 | 23 | 10 | 28 | 17 | 21 | 15 | 14 | 14 | 13 | 12 | 13 | 16 | 9 | 15 | 16 | 17 | 12 | **** | 16 | 17 |
| 20 | 22 | 20 | 14 | 16 | 7 | 7 | 19 | 18 | 11 | 23 | 25 | 37 | 33 | 32 | 23 | 28 | 13 | 12 | 12 | 13 | 11 | 9 | **** | 22 | 19 |
| 21 | 12 | 19 | 27 | 43 | 26 | 32 | 11 | 12 | 22 | 14 | 21 | 16 | 14 | 15 | 18 | 13 | 22 | 17 | 11 | 10 | 13 | 20 | **** | 13 | 18 |
| 22 | 11 | 12 | 9 | 10 | 11 | 12 | 10 | 27 | 61 | 35 | 41 | 41 | 29 | 17 | 16 | 17 | 16 | 27 | 23 | 22 | 24 | 28 | **** | 25 | 23 |
| 23 | 16 | 12 | 12 | 18 | 15 | 43 | 48 | 37 | 43 | 42 | 30 | 37 | 22 | 17 | 15 | 23 | 38 | 79 | 84 | 67 | 71 | 45 | **** | 62 | 38 |
| 24 | 101 | 106 | 126 | 90 | 48 | 36 | 11 | 12 | 13 | 12 | 9 | 14 | 13 | 13 | 21 | 14 | 22 | 18 | 15 | 17 | 28 | 57 | **** | 40 | 36 |
| 25 | 37 | 13 | 6 | 4 | 4 | 5 | 4 | 3 | 4 | 2 | 5 | 8 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 4 |
| 26 | 8 | 10 | 7 | 13 | 17 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 4 | 2 | 6 | 5 | 14 | 33 | 22 | 14 | 12 | 8 | **** | 5 | 8 |
| 27 | 6 | 6 | 5 | 6 | 8 | 8 | 18 | 21 | 14 | 22 | 23 | 24 | 16 | 14 | 14 | 11 | 7 | 7 | 8 | 7 | 9 | 5 | **** | 7 | 12 |
| 28 | 4 | 3 | 5 | 5 | 5 | 17 | 19 | 19 | 20 | 23 | 21 | 22 | 13 | 17 | 23 | 24 | 22 | 11 | 13 | 12 | 12 | 11 | **** | 19 | 15 |
| 29 | 15 | 12 | 11 | 13 | 9 | 17 | 15 | 13 | 17 | 19 | 19 | 27 | 19 | 20 | 14 | 22 | 11 | 18 | 26 | 19 | 16 | 16 | **** | 12 | 16 |
| 30 | 16 | 15 | 10 | 8 | 7 | 7 | 8 | 12 | 16 | 12 | 7 | 6 | 6 | 7 | 8 | 7 | 10 | 9 | 12 | 12 | 11 | 22 | **** | 10 | 10 |
| 31 | 13 | 27 | 24 | 19 | 8 | 8 | 10 | 14 | 16 | 28 | 18 | 25 | 26 | 9 | 17 | 15 | 17 | 48 | 137 | 96 | 81 | 63 | **** | 77 | 35 |

MONTHLY STATISTICS:

| GEOM | | ARITH | -----PERCENTILE----- | | | | | -----RANGE----- | | | STD 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 | 21 | 16 | 41 | 53 | 75 | 91 | 0 | - | 137 | 4 | - | 41 | 2 | 96 | 0 | 0 |

NOTES:

1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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: NOVEMBER
YEAR : 2009
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 | 19 | 15 | 12 | 10 | 14 | 13 | 25 | 29 | 33 | 25 | 23 | 19 | 24 | 19 | 20 | 25 | 28 | 13 | 12 | 12 | 14 | 15 | **** | 11 | 19 | |
| 2 | 10 | 6 | 5 | 4 | 5 | 6 | 5 | 7 | 8 | 7 | 7 | 8 | 8 | 8 | 6 | 8 | 9 | 11 | 13 | 15 | 14 | 14 | **** | 13 | 9 | |
| 3 | 13 | 12 | 12 | 11 | 12 | 12 | 12 | 15 | 13 | 13 | 13 | 13 | 12 | 15 | 14 | 13 | 13 | 12 | 12 | 18 | 19 | 20 | **** | 11 | 14 | |
| 4 | 11 | 10 | 10 | 10 | 10 | 11 | 10 | 13 | 10 | 8 | 8 | 7 | 4 | 13 | 15 | 20 | 16 | 10 | 6 | 6 | 6 | 4 | **** | 0 | 9 | |
| 5 | 0 | 2 | 8 | 2 | 7 | 8 | 5 | 13 | 19 | 14 | 15 | 16 | 9 | 5 | 5 | 15 | 10 | 15 | 9 | 6 | 7 | 5 | **** | 1 | 9 | |
| 6 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 1 | 1 | |
| 7 | 0 | 2 | 3 | 6 | 1 | 3 | 0 | 8 | 5 | 0 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 2 | |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | **** | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 13 | 14 | 12 | 17 | 16 | 17 | 16 | 12 | **** | 1 | 5 | |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **** | 0 | 0 | |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | <----- M-----> | | | 1 | 2 | 1 | 2 | 2 | 2 | **** | 2 | 1 |
| 12 | 2 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 1 | 3 | <-- M --> | | 3 | 3 | 7 | 20 | 17 | 11 | **** | 27 | 6 | |
| 13 | 48 | 28 | 22 | 20 | 25 | 55 | 23 | 12 | 54 | 15 | 50 | 20 | 22 | 33 | 13 | 12 | 12 | 16 | 17 | 12 | 22 | 28 | **** | 29 | 26 | |
| 14 | 20 | 10 | 7 | 5 | 5 | 5 | 4 | 4 | 5 | 6 | 7 | 9 | 8 | 7 | 9 | 13 | 19 | 18 | 17 | 13 | 10 | 8 | **** | 10 | 10 | |
| 15 | 13 | 12 | 8 | 8 | 6 | 6 | 36 | 38 | 61 | 59 | 61 | 35 | 32 | 44 | 45 | 46 | 53 | 29 | 9 | 7 | 5 | 3 | **** | 8 | 27 | |
| 16 | 5 | 5 | 12 | 18 | 19 | 20 | 9 | 6 | 6 | 5 | 5 | 4 | 4 | 9 | 22 | 37 | 14 | 10 | 16 | 15 | 15 | 13 | **** | 11 | 12 | |
| 17 | 16 | 7 | 4 | 3 | 4 | 5 | 5 | 5 | 6 | 7 | 9 | 10 | 9 | 9 | 10 | 15 | 12 | 12 | 15 | 20 | 19 | 14 | **** | 12 | 10 | |
| 18 | 11 | 8 | 7 | 8 | 9 | 10 | 10 | 10 | 9 | 10 | 11 | 18 | 14 | 12 | 11 | 21 | 18 | 17 | 17 | 16 | 12 | 7 | **** | 10 | 12 | |
| 19 | 15 | 9 | 5 | 6 | 5 | 7 | 14 | 16 | 17 | 15 | 30 | 35 | 33 | 28 | 29 | 24 | 19 | 17 | 22 | 32 | 23 | 15 | **** | 11 | 19 | |
| 20 | 9 | 9 | 8 | 8 | 8 | 8 | 9 | 12 | 13 | 14 | 23 | 30 | 27 | 20 | 24 | 11 | 11 | 17 | 17 | 23 | 19 | 13 | **** | 7 | 15 | |
| 21 | 10 | 8 | 8 | 8 | 8 | 10 | 12 | 14 | 15 | 17 | 25 | 33 | 38 | 36 | 37 | 38 | 36 | 40 | 36 | 35 | 44 | 36 | **** | 19 | 24 | |
| 22 | 17 | 17 | 23 | 15 | 14 | 15 | 16 | 18 | 20 | 21 | 19 | 19 | 20 | 24 | 23 | 25 | 29 | 31 | 30 | 26 | 22 | 20 | **** | 15 | 21 | |
| 23 | 13 | 14 | 19 | 15 | 13 | 17 | 19 | 21 | 23 | 24 | 22 | 18 | 15 | 9 | 9 | 12 | 8 | 8 | 9 | 20 | 27 | 26 | **** | 29 | 17 | |
| 24 | 16 | 10 | 11 | 15 | 10 | 9 | 13 | 16 | 21 | 17 | 13 | 25 | 18 | 16 | 20 | 23 | 23 | 15 | 8 | 8 | 8 | 10 | **** | 9 | 14 | |
| 25 | 13 | 10 | 12 | 8 | 7 | 10 | 16 | 15 | 13 | 11 | 13 | 12 | 13 | 9 | 8 | 11 | 10 | 8 | 9 | 9 | 9 | 8 | **** | 10 | 11 | |
| 26 | 8 | 7 | 17 | 11 | 6 | 9 | 15 | 17 | 18 | 23 | 31 | 45 | 34 | 22 | 6 | 6 | 6 | 5 | 6 | 10 | 4 | 5 | **** | 9 | 14 | |
| 27 | 7 | 9 | 6 | 5 | 6 | 5 | 5 | 6 | 11 | 22 | 20 | 18 | 14 | 9 | 21 | 25 | 40 | 36 | 22 | 17 | 14 | 11 | **** | 11 | 15 | |
| 28 | 9 | 10 | 12 | 11 | 10 | 14 | 15 | 14 | 13 | 7 | 7 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | 8 | 8 | 11 | **** | 6 | 9 | |
| 29 | 6 | 5 | 5 | 6 | 6 | 7 | 5 | 5 | 7 | 9 | 13 | 18 | 10 | 12 | 21 | 27 | 28 | 19 | 11 | 11 | 9 | 11 | **** | 23 | 12 | |
| 30 | 33 | 25 | 12 | 13 | 18 | 13 | 14 | 15 | 17 | 12 | 11 | 9 | 8 | 12 | 15 | 13 | 12 | 9 | 10 | 14 | 13 | 12 | **** | 20 | 14 | |

MONTHLY STATISTICS:

| GEOM | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | | STD GEOM | PERCENT | NO. OF TIMES | |
|------|--------|------------------------|----|----|----|----|-------------------|------|-------|-------|-----------|------------|--------------|-------|
| MEAN | MEDIAN | MEAN | 50 | 90 | 95 | 98 | 99 | 1-HR | 24-HR | 24-HR | DEVIATION | VALID DATA | 1-HR | 24-HR |
| 7 | 10 | 12 | 10 | 24 | 33 | 40 | 49 | 0 | - | 61 | 5 | 95 | 0 | 0 |

- NOTES:
1. FLAGS FOR INVALID DATA :
 - **** : DAILY ZERO/SPAN CHECK
 - D : DYNAMIC CALIBRATION
 - T : TELEMETRY/DATALOGGR/ANALYZER FAULT
 - M : MAINTENANCE OR MACHINE SHUTDOWN
 - 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 : SULPHUR DIOXIDE
 MONTH: DECEMBER
 YEAR : 2009
 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 | 19 | 14 | 11 | 8 | 8 | 10 | 9 | 9 | 9 | 9 | 11 | 15 | 19 | 14 | 12 | 12 | 10 | 6 | 7 | 16 | 7 | 10 | **** | 7 | 11 |
| 2 | 8 | 8 | 7 | 6 | 6 | 8 | 7 | 12 | 24 | 39 | 20 | 13 | 12 | 12 | 12 | 13 | 16 | 18 | 14 | 13 | 13 | 11 | **** | 18 | 13 |
| 3 | 12 | 7 | 5 | 7 | 9 | 14 | 16 | 17 | 20 | 18 | 20 | 20 | 19 | 21 | 20 | 18 | 18 | 17 | 21 | 19 | 18 | 18 | **** | 19 | 16 |
| 4 | 16 | 17 | 16 | 13 | 14 | 23 | 20 | 19 | 21 | 25 | 22 | 22 | 17 | 12 | 12 | 11 | 14 | 14 | 12 | 10 | 17 | 30 | **** | 40 | 18 |
| 5 | 50 | 47 | 43 | 36 | 24 | 19 | 20 | 21 | 19 | 21 | 24 | 23 | 21 | 17 | 15 | 16 | 14 | 13 | 13 | 11 | 13 | 11 | **** | 18 | 22 |
| 6 | 15 | 18 | 22 | 22 | 17 | 20 | 19 | 15 | 20 | 19 | 20 | 17 | 15 | 13 | 13 | 10 | 9 | 12 | 12 | 9 | 10 | 9 | **** | 10 | 15 |
| 7 | 10 | 7 | 6 | 6 | 8 | 9 | 14 | 11 | 9 | 5 | 5 | 3 | 3 | 3 | 4 | 6 | 7 | 5 | 5 | 10 | 6 | 9 | **** | 8 | 7 |
| 8 | 7 | 6 | 4 | 3 | 5 | 5 | 4 | 3 | 4 | 4 | 4 | 5 | 6 | 9 | 14 | 7 | 8 | 18 | 13 | 13 | 16 | 11 | **** | 9 | 8 |
| 9 | 8 | 7 | 5 | 4 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 8 | 9 | 10 | 12 | 9 | 8 | 8 | 7 | 9 | 11 | 14 | **** | 7 | 7 |
| 10 | 7 | 15 | 23 | 29 | 12 | 8 | 7 | 7 | 8 | 8 | 14 | 29 | 26 | 27 | 24 | 22 | 30 | 38 | 26 | 22 | 23 | **** | 26 | 19 | |
| 11 | 23 | 23 | 22 | 22 | 22 | 12 | 32 | 27 | 26 | 26 | 28 | 19 | 11 | 9 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 4 | **** | 6 | 15 |
| 12 | 5 | 3 | 3 | 4 | 3 | 4 | 6 | 16 | 8 | 4 | 6 | 5 | 4 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | **** | 4 | 4 |
| 13 | 3 | 4 | 5 | 3 | 5 | 6 | 8 | 5 | 5 | 13 | 12 | 14 | 14 | 17 | 15 | 17 | 14 | 16 | 15 | 16 | 15 | 13 | **** | 13 | 11 |
| 14 | 20 | 27 | 30 | 23 | 34 | 29 | 22 | 14 | 31 | 22 | 15 | 15 | 11 | 10 | 14 | 7 | 5 | 8 | 10 | 5 | 5 | 6 | **** | 9 | 16 |
| 15 | 5 | 5 | 3 | 4 | 9 | 11 | 11 | 13 | 14 | 10 | 7 | 8 | 5 | 8 | 8 | 12 | 11 | 9 | 12 | 30 | 47 | 32 | **** | 10 | 12 |
| 16 | 7 | 6 | 7 | 10 | 19 | 15 | 10 | 9 | 8 | 7 | 8 | 8 | 9 | 10 | 13 | 13 | 8 | 8 | 8 | 9 | 9 | 10 | **** | 8 | 10 |
| 17 | 9 | 8 | 10 | 12 | 14 | 16 | 13 | 15 | 14 | 15 | 16 | 32 | 18 | 20 | 22 | 15 | 13 | 21 | 40 | 30 | 17 | 11 | **** | 11 | 17 |
| 18 | 15 | 9 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 8 | 9 | 9 | 8 | 15 | 22 | 36 | 45 | 15 | 9 | 9 | 7 | **** | 7 | 12 |
| 19 | 7 | 5 | 6 | 7 | 7 | 9 | 9 | 11 | 12 | 14 | 16 | 17 | 19 | 20 | 19 | 16 | 17 | 20 | 14 | 19 | 17 | 14 | **** | 12 | 13 |
| 20 | 13 | 12 | 14 | 16 | 14 | 15 | 14 | 15 | 16 | 19 | 20 | 18 | 18 | 16 | 14 | 15 | 20 | 31 | 26 | 24 | 20 | 18 | **** | 31 | 18 |
| 21 | 21 | 26 | 15 | 16 | 16 | 16 | 18 | 22 | 20 | 21 | 22 | 26 | 20 | 18 | 13 | 14 | 13 | 13 | 14 | 14 | 16 | 16 | **** | 14 | 18 |
| 22 | 13 | 12 | 12 | 11 | 10 | 10 | 11 | 16 | 17 | 24 | 19 | 17 | 14 | 12 | 12 | 11 | 10 | 7 | 8 | 6 | 6 | 8 | **** | 9 | 12 |
| 23 | 9 | 8 | 7 | 8 | 8 | 10 | 10 | 18 | 17 | 30 | 13 | 11 | 10 | 5 | 5 | 10 | 8 | 5 | 5 | 11 | 11 | 7 | **** | 7 | 10 |
| 24 | 7 | 7 | 5 | 5 | 7 | 12 | 20 | 19 | 32 | 32 | 21 | 16 | 22 | 26 | 24 | 41 | 43 | 42 | 28 | 18 | 13 | 9 | **** | 9 | 20 |
| 25 | 12 | 21 | 24 | 26 | 28 | 23 | 17 | 10 | 13 | 18 | 24 | 25 | 19 | 19 | 15 | 17 | 16 | 15 | 11 | 13 | 14 | 17 | **** | 14 | 18 |
| 26 | 12 | 11 | 10 | 15 | 22 | 12 | 18 | 24 | 24 | 15 | 14 | 14 | 28 | 38 | 14 | 24 | 16 | 18 | 23 | 14 | 19 | 19 | **** | 21 | 18 |
| 27 | 14 | 11 | 10 | 11 | 14 | 9 | 10 | 10 | 11 | 15 | 15 | 13 | 10 | 13 | 16 | 14 | 10 | 6 | 2 | 3 | 9 | 11 | **** | 19 | 11 |
| 28 | 12 | 9 | 10 | 11 | 11 | 11 | 13 | 13 | 11 | 11 | 11 | 15 | 15 | 17 | 18 | 17 | 21 | 27 | 72 | 19 | 25 | 14 | **** | 12 | 17 |
| 29 | 14 | 11 | 13 | 12 | 11 | 12 | 15 | 29 | 15 | 32 | 25 | 8 | 7 | 7 | 5 | 4 | 3 | 3 | 3 | 4 | 5 | 5 | **** | 7 | 11 |
| 30 | 26 | 36 | 37 | 36 | 30 | 25 | 17 | 9 | 6 | 8 | 16 | <-----D-----> | | | | 10 | 7 | 4 | 5 | 5 | 9 | **** | 15 | 17 | |
| 31 | 16 | 18 | 18 | 13 | 11 | 9 | 10 | 11 | 22 | 14 | 23 | 23 | 28 | 15 | 15 | 15 | 12 | 16 | 29 | 23 | 22 | 15 | **** | 13 | 17 |

MONTHLY STATISTICS:

| GEOM | | ARITH | <-----PERCENTILE-----> | | | | | <-----RANGE-----> | | | STD 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 | 14 | 13 | 24 | 30 | 37 | 42 | 2 | - 72 | 2 | 95 | 0 | 0 | |

NOTES:

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

B.4 Particulate in Stack Flue Gas

YEAR : 2009
MONTH : October
UNIT : 5

| Date | Time | Result (mg/Nm ³) |
|------------|---------------|------------------------------|
| 16/10/2009 | 11:00 – 15:00 | 5 |

Particulate, mg/Nm³
(Expressed at 0°C, 101.325 kPa., 12% CO₂ and dry conditions)

Action : -

Limit : 85

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 : October - December 2009

| Week Ending | No. of Samples | Suspended Solids, mg/L | | | pH | | |
|-------------|----------------|------------------------|---------|---------|---------|---------|---------|
| | | Maximum | Minimum | Average | Maximum | Minimum | Average |
| 03/10/09 | 5* | 18 | 14 | 16 | 8.2 | 8.0 | 8.1 |
| 10/10/09 | 4* | 18 | 14 | 16 | 8.0 | 8.0 | 8.0 |
| 17/10/09 | 2* | 18 | 15 | 17 | 8.2 | 8.1 | 8.2 |
| 24/10/09 | 2* | 20 | 17 | 19 | 8.2 | 8.2 | 8.2 |
| 31/10/09 | 0* | N/A | N/A | N/A | N/A | N/A | N/A |
| 07/11/09 | 0* | N/A | N/A | N/A | N/A | N/A | N/A |
| 14/11/09 | 3* | 16 | 14 | 15 | 8.3 | 8.2 | 8.2 |
| 21/11/09 | 2* | 20 | 16 | 18 | 8.3 | 8.3 | 8.3 |
| 28/11/09 | 2* | 17 | 13 | 15 | 8.3 | 8.2 | 8.3 |
| 05/12/09 | 2* | 16 | 13 | 15 | 8.3 | 8.2 | 8.3 |
| 12/12/09 | 4* | 20 | 16 | 18 | 8.4 | 8.3 | 8.4 |
| 19/12/09 | 2* | 18 | 15 | 17 | 8.6 | 8.3 | 8.5 |
| 26/12/09 | 3* | 21 | 16 | 18 | 8.4 | 8.2 | 8.3 |

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 : October - December 2009

| Sampling date | | 8/10/2009 | 12/11/2009 | 9/12/2009 |
|--------------------|------|-----------|------------|-----------|
| Barium, | ug/L | <150 | <150 | <150 |
| Mercury, | ug/L | <0.5 | <0.5 | 0.8 |
| Cadmium, | ug/L | 3 | 1 | <1 |
| Iron, | ug/L | <400 | <400 | <400 |
| Total Phosphorous, | mg/L | <0.8 | 1.6 | <0.8 |
| Total Nitrogen, | mg/L | 66 | 235 | 172 |
| 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 coal-fired Units L4 and L5 unless otherwise agreed by EPD. | Complied |
| | WATER QUALITY | |
| B1 | All wastewater arising from the operation of the FGD plants for the coal-fired Units L4 and L5 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 FGD plants for the coal-fired Units L4 and L5 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 |