

Appendix F

The QA/QC Procedures and Results

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
TEOM CONTINUOUS DUST MONITOR
DATA QUALITY ASSURANCE LOG SHEET

Month: June

Year: 2016

Reservoir (AM1)				
Date	Frequency (Hz) (240 – 270)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
2/6/2016	260.334	4	2.92	13.29
8/6/2016	260.055	4	2.96	13.49
14/6/2016	259.740	4	2.93	13.36
20/6/2016	259.443	4	2.93	13.37
26/6/2016	259.199	4	2.93	13.35

East Gate (AM2)				
Date	Frequency (Hz) (240 – 270)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
2/6/2016	256.160	4	2.96	13.35
8/6/2016	258.134	4	2.97	13.51
14/6/2016	257.704	4	2.95	13.43
20/6/2016	258.166	4	2.93	13.73
26/6/2016	257.863	4	2.94	13.40

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 – 270)	Operation Mode (Mode 4)	Main Flow (l/min) (0.90 – 1.10)	Bypass Flow (l/min) (14.10 – 17.20)
2/6/2016	263.445	4	1.00	15.69
8/6/2016	265.085	4	1.00	15.69
14/6/2016	264.992	4	1.00	15.69
20/6/2016	264.909	4	1.00	15.69
26/6/2016	264.861	4	1.00	15.69

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter			
Pump Repair			
Leak Check	✓	✓	✓
Flow Audit	✓	✓	✓
Flow Controller Calibration			
A/C filter cleaning	✓	✓	✓

Remarks:

Prepared by : *pls.*

Checked by : *[Signature]*

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: R.E. Site No.: AM 1
 Date of visit: 15-6-2016 Hour of Visit: 10:23
 Staff name: H.K.TSANG/HF16 HVAS S/N: 0131
 Used filter paper no.: MG94 New filter paper no.: MG96
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \underline{305.4}$ K Pressure, $P_a = \underline{1000}$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$. (inch H_2O)
1535(10/2015)	$H_a = 17.93(T_a/P_a) = \underline{5.5}$

Manometer reading before calibration: 5
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.5

Note: Tolerance Limit of HVAS flow: " 1.0 ft^3/min . Corresponding limits for manometer : " 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

Conducted by: KP / H.F.LO Checked by: HSM

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E.G. Site No.: AM2
 Date of visit: 15-6-2016 Hour of Visit: 11:15
 Staff name: H.K. TSANG/H.F. Lo HVAS S/N: 0132
 Used filter paper no.: MG95 New filter paper no.: MG97
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 307.3$ K Pressure, $P_a = 1004.0$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft ³ /min. (inch H ₂ O)
1535(10/2015)	$H_a = 17.93(T_a/P_a) = 5.5$

Manometer reading before calibration: 5.5
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: 5.5

Note: Tolerance Limit of HVAS flow: " 1.0 ft³/min. Corresponding limits for manometer : " 0.2 inch H₂O

III. General Conditions of HVAS

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IV. Remarks

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Conducted by: Kp / H.F. Lo Checked by: [Signature]

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TXU Site No.: AM4
Date of visit: 15-6-2016 Hour of Visit: 14:33
Staff name: H.K.TSANG/H.F.LO MINIVOL S/N: 3393
Used filter paper no.: M035 New filter paper no.: M036

Type of filter: ~~Cellulose~~ / Glass-fibre
(Delete as appropriate)

I. Calibration is performed by using Drycal DC-2 Flow Calibrator

5 Sl/min set point is recommended

4.46 Before 5.02 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / replace Pump Valves: X
3. Clean / replace Pump Diaphragms: ✓
4. Clean Impaction Inlet: ✓
5. Replace Timer Battery Every 6 months: X
6. Replace Inlet Filter: ✓

III. Remarks

✓

Conducted by: K.F. / H.F.LO

Checked by: [Signature]

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION AND LAMMA EXTENSION
NOISE MONITORING STATIONS
SITE VISIT LOG SHEET

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/~~
Ash Lagoon/~~No.2 Limestone Silo Roof/Hung Shing Ye*~~

Date 6-6-2016 Time 15:17

Equipment RTON NA-27 Serial No. 00111465

Staff Attended W.H.MAN / H.F.Lo

1. Calibration

Acoustic calibrator

B&K Type 4231 S/N:2730419

Noise level measured in calibration 94.0 (94±1.0 dBA)

2. Weather Conditions

a. Sunny/~~fine/cloudy/showery/heavy rain*~~

b. ~~Strong wind/breeze/calm*~~

3. Remark/Observation

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Note: * - Please delete where inappropriate.

Conducted By: W.H.MAN / H.F.Lo Checked By: Terence Chan

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION AND LAMMA EXTENSION
NOISE MONITORING STATIONS
SITE VISIT LOG SHEET

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/
Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*~~

Date 30-6-16 Time P:30.

Equipment B&K 2250 Serial No. 3008P03

Staff Attended H.K. TSANG ; W.H. MAN

1. Calibration

Acoustic calibrator B&K Type 4231; S/N: 273041P
Noise level measured in calibration 93.1P (94±1.0 dBA)

2. Weather Conditions

- a. ~~Sunny/fine/cloudy/showery/heavy rain*~~
- b. ~~Strong wind/breeze/calm*~~

3. Remark/Observation

Rion NA-27 sound level meter replaced
by B&K 2250.

Note: * - Please delete where inappropriate.

Conducted By: [Signature] Checked By: Teresa Chan

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION AND LAMMA EXTENSION
NOISE MONITORING STATIONS
SITE VISIT LOG SHEET

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/~~
~~Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*~~

Date 20-6-2016 Time 15:40

Equipment B&K Type 2250 Serial No. 3008621

Staff Attended H.K. TSANG / H.F. LO

1. Calibration

Acoustic calibrator

B&K Type 4231 S/N: 2730419

Noise level measured in calibration 94.0 (94±1.0 dBA)

2. Weather Conditions

a. Sunny/~~fine~~/~~cloudy~~/~~showery~~/~~heavy rain~~*

b. ~~Strong wind~~/~~breeze~~/~~calm~~*

3. Remark/Observation

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Note: * - Please delete where inappropriate.

Conducted By: Ky / H.F. LO Checked By: Terence Chu