

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: October

Year: 2016

Reservoir (AM1)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
6/10/2016	271.031	4	2.91	13.24
12/10/2016	270.570	4	3.00	13.66
18/10/2016	272.084	4	2.97	13.52
24/10/2016	271.628	4	2.95	13.45
30/10/2016	271.300	4	3.00	13.68

East Gate (AM2)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
6/10/2016	255.961	4	2.95	13.42
12/10/2016	255.478	4	3.03	13.80
18/10/2016	254.986	4	3.00	13.65
24/10/2016	254.522	4	2.98	13.56
30/10/2016	254.188	4	3.04	13.82

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (0.90 – 1.10)	Bypass Flow (l/min) (14.10 – 17.20)
6/10/2016	255.808	4	1.00	15.69
12/10/2016	255.656	4	1.00	15.69
18/10/2016	256.234	4	1.00	15.69
24/10/2016	256.094	4	1.00	15.69
29/10/2016	256.016	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 :

Checked by :

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM 1
 Date of visit: 19-10-2016 Hour of Visit: 13:00 hrs
 Staff name: W.M.TAM HVAS S/N: 0131
 Used filter paper no.: MH36 New filter paper no.: MH38
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 299.4$ K Pressure, $P_a = 100.6$ 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)	$H_a = 17.93(T_a/P_a) = 5.36$

Manometer reading before calibration: 5.40
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: N/A

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: W.M.TAM Checked by: [Signature]

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM2
 Date of visit: 19-10-2016 Hour of Visit: 13:45
 Staff name: W.M. TAM HVAS S/N: 0B2
 Used filter paper no.: MH37 New filter paper no.: MH39
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 300.5$ K Pressure, $P_a = 1005.7$ 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)	$H_a = 17.93(T_a/P_a) = 5.36$

Manometer reading before calibration: 5.20
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.40

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

III. General Conditions of HVAS

IV. Remarks

Conducted by: W.M. Tam 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 14-10-2016 Time 9:45 hrs

Equipment B&K 2250 Serial No. 3008903

Staff Attended W.M.TAM / W.H. MAN

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2730419)

Noise level measured in calibration: 93.8 (94±1.0 dBA)

2. Weather Conditions

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

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

3. Beacon

Function normally (Yes/No): YES

4. Remark/Observation

Note: * - Please delete where inappropriate.

Conducted By: W.M.TAM / W.H. MAN Checked By: Terence Chu

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 5-10-2016 Time 13:15 hrs

Equipment B&K 2050 Serial No. 3008621

Staff Attended W.M.TAM

1. Calibration

Acoustic calibrator:

B&K 4231 (SN=2730419)

Noise level measured in calibration: 94.5 (94±1.0 dBA)

2. Weather Conditions

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

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

3. Beacon

Function normally (Yes/No): YES

4. Remark/Observation

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Note: * - Please delete where inappropriate.

Conducted By: W.M.TAM Checked By: Terence Chu

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