

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: August

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)
1/8/2016	257.310	4	2.93	13.36
7/8/2016	260.281	4	2.91	13.28
13/8/2016	259.994	4	2.92	13.31
19/8/2016	259.788	4	2.94	13.40
25/8/2016	259.359	4	2.91	13.27
31/8/2016	258.808	4	2.95	13.45

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)
1/8/2016	257.447	4	2.94	13.39
7/8/2016	256.990	4	2.93	13.35
13/8/2016	257.674	4	2.94	13.38
19/8/2016	257.151	4	2.95	13.44
25/8/2016	257.349	4	2.93	13.36
31/8/2016	256.713	4	2.96	13.47

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)
1/8/2016	266.238	4	1.00	15.69
7/8/2016	264.125	4	1.00	15.69
13/8/2016	264.025	4	1.00	15.69
19/8/2016	263.951	4	1.00	15.69
25/8/2016	263.789	4	1.00	15.69
31/8/2016	263.594	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: 15-8-2016 Hour of Visit: 10:15 hrs
 Staff name: W.M.TAM / W.H.MAN HVAS S/N: 0131
 Used filter paper no.: MH14 New filter paper no.: MH16
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 302.4$ K Pressure, $P_a = 991.8$ 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)	$H_a = 17.93(T_a/P_a) = 5.47$

Manometer reading before calibration: 5.70
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.50

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 / W.H.MAN Checked by: ASW

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM2
 Date of visit: 15-8-2016 Hour of Visit: 11:00 hrs
 Staff name: W.M.TAM / W.H.MAN HVAS S/N: 0132
 Used filter paper no.: MH 15 New filter paper no.: MH 17
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 302.9$ K Pressure, $P_a = 995.8$ 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)	$H_a = 17.93(T_a/P_a) = 5.45$

Manometer reading before calibration: 5.50
 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

✓

IV. Remarks

✓

Conducted by: W.M.TAM / W.H.MAN Checked by: [Signature]

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4

Date of visit: 15-8-2016 Hour of Visit: 14:00 hrs

Staff name: W.M.TAM / W.H.MAN MINIVOL S/N: 3393

Used filter paper no.: MO45 New filter paper no.: MO46

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

5.01 Before 5.01 After

II. General Service of Mini Vol Air Sampler

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

III. Remarks

✓

Conducted by: W.M.TAM / W.H.MAN

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 8-8-2016 Time 15:30 hrs
Equipment B&K 2250 Serial No. 3008621
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: Teresa Chu