

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: March Year: 2017

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)
5/3/2017	271.068	4	3.01	13.70
11/3/2017	270.374	4	3.08	14.02
17/3/2017	269.899	4	3.07	13.97
23/3/2017	269.394	4	3.03	13.81
29/3/2017	268.621	4	3.03	13.81

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)
5/3/2017	255.600	4	3.02	13.73
11/3/2017	259.848	4	3.07	13.99
17/3/2017	259.375	4	3.06	13.95
23/3/2017	258.888	4	3.03	13.81
29/3/2017	258.131	4	3.03	13.80

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)
5/3/2017	253.460	4	1.00	15.69
11/3/2017	253.301	4	1.00	15.69
17/3/2017	253.169	4	1.00	15.69
23/3/2017	256.322	4	1.00	15.70
29/3/2017	-	-	-	-

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:

Replacement work of dust monitoring station at Ash Lagoon was carried out during the period 24-29/3/2017. A make-up sampling for Ash Lagoon was conducted on 30-3-2017.

Prepared by: Alo

Checked by: CP

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1
 Date of visit: 13-3-2017 Hour of Visit: 11:30 hrs
 Staff name: W.M.TAM/HT.FANG HVAS S/N: 0131
 Used filter paper no.: MH88 New filter paper no.: MH90
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 300.7$ K Pressure, $P_a = 1005.9$ 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)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = 5.48$

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

✓

IV. Remarks

Carbon brushes were replaced before calibration.

Conducted by: W.M.TAM / HT.FANG Checked by: [Signature]

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM2
 Date of visit: 13-3-2017 Hour of Visit: 13:45 hr
 Staff name: W.M.TAM / H.T.PANG HVAS S/N: 032
 Used filter paper no.: MH89 New filter paper no.: MH91
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a =$ 30.0 K Pressure, $P_a =$ 1010.0 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)
1534(10/2016)	$H_a = 18.32(T_a/P_a) =$ <u>5.46</u>

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 / H.T.PANG Checked by: ASU

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 21/03/2017 Time 11:30 hrs
Equipment B&K 2250 Serial No. 3009916
Staff Attended WHMAN / WMTAM

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2730419)
Noise level measured in calibration: 93.7 (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: WHMAN / WMTAM 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 03/03/2017 Time 11:00 hrs
Equipment B&K 2250 Serial No. 3008621
Staff Attended WHMAN / WMTAM

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: WHMAN / WMTAM Checked By: Teresa Chu