

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: July Year: 2019

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)
05/07/2019	266.0	4	2.88	13.11
11/07/2019	265.5	4	2.91	13.26
17/07/2019	264.9	4	2.84	12.94
23/07/2019	271.8	4	2.87	13.07
29/07/2019	271.6	4	2.88	13.11

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)
05/07/2019	258.5	4	2.92	13.3
11/07/2019	257.9	4	2.95	13.42
17/07/2019	257.6	4	2.89	13.19
23/07/2019	259.7	4	2.92	13.3
29/07/2019	259.4	4	2.92	13.28

Ash Lagoon (AM3)				
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)
05/07/2019	257.4	4	3.00	13.67
11/07/2019	256.8	4	3.00	13.67
17/07/2019	256.4	4	3.00	13.67
23/07/2019	255.9	4	3.00	13.67
29/07/2019	256.5	4	3.00	13.67

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: Chris Chan

Checked by: HY Chan

The Hongkong Electric Co., Ltd.
Mini Volume Air Sampler Site Visit Log Sheet

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
18/07/2019 / 14:15	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ25
New filter paper no.	MQ26

Type of filter: Glass-fibre

- I. Calibration is performed by using Drycal DC-2 Flow Calibrator
5 std. L/min set point is recommended

Before: 5.037
After: 5.037

- II. General Services

1. Clean Rotameter: Yes
2. Clean / Replace Pump Valves: No
3. Clean / Replace Pump Diaphragms: No
4. Clean Impaction Inlet: Yes
5. Replace Timer Battery Every 6 months: Yes
6. Replace Inlet Filter: Yes

Remarks

Conducted by: WM Tam

Checked by: SM Hon

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Station
Site Visit Log Sheet

Location: Ash Lagoon

Date/Time	Staff Attended
24/07/2019 / 12:45	WM Tam / Jing Lui

Equipment	Serial No.
B&K 2250	3024699

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2343406)

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

2. Weather Conditions

a. Sunny

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

N/A

Prepared by: WM Tam

Checked by: TL Chu

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Station
Daily Calibration Record

Date	Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)
01/07/2019	Passed	0.05
02/07/2019	Passed	0.03
03/07/2019	Passed	0.04
04/07/2019	Passed	0.05
05/07/2019	Passed	0.03
06/07/2019	Passed	0.03
07/07/2019	Passed	0.00
08/07/2019	Passed	0.02
09/07/2019	Passed	0.06
10/07/2019	Passed	0.02
11/07/2019	Passed	0.03
12/07/2019	Passed	0.05
13/07/2019	Passed	0.02
14/07/2019	Passed	0.04
15/07/2019	Passed	0.06
16/07/2019	Passed	0.02
17/07/2019	Passed	0.05
18/07/2019	Passed	0.04
19/07/2019	Passed	0.02
20/07/2019	Passed	-0.01
21/07/2019	Passed	0.04
22/07/2019	Passed	-0.01
23/07/2019	Passed	0.06
24/07/2019	Passed	0.03
25/07/2019	Passed	0.06
26/07/2019	Passed	0.04
27/07/2019	Passed	0.04
28/07/2019	Passed	0.03
29/07/2019	Passed	0.03
30/07/2019	Passed	0.02
31/07/2019	Passed	0.07

Remarks:

1. The B&K sound level meter at the noise monitoring station has an advanced feature of internal calibration checking (viz. Charge Injection Calibration (CIC)). CIC is a B&K patented method for in situ verification of the integrity of the entire sound measurement chain (including microphone, preamplifier and cabling).
2. The acceptance criterion of deviation from reference is ± 0.5 dB.