

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: February 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)
05/02/2019	269.723	4	3.09	14.06
11/02/2019	269.264	4	3.13	14.26
17/02/2019	268.951	4	3.11	14.16
23/02/2019	271.657	4	3.11	14.14

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)
05/02/2019	259.322	4	2.70	13.98
11/02/2019	258.930	4	2.72	14.21
17/02/2019	259.472	4	3.09	14.09
23/02/2019	259.116	4	2.70	14.10

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)
05/02/2019	256.039	4	3.00	13.67
11/02/2019	255.650	4	3.00	13.67
17/02/2019	258.844	4	3.00	13.67
23/02/2019	258.556	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:

N/A

Prepared by: HY Chan

Checked by: HY Ho

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
18/02/2019 / 11:00	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ00
New filter paper no.	MQ01

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: 5.081
After: 5.009

- 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

Timer battery was replaced before flow calibration.

Conducted by: WM Tam

Checked by: SM Hon

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

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/02/2019	Passed	-0.07	Passed	-0.07
02/02/2019	Passed	-0.10	Passed	-0.06
03/02/2019	Passed	-0.05	Passed	-0.03
04/02/2019	Passed	-0.02	Passed	-0.04
05/02/2019	Passed	-0.06	Passed	-0.04
06/02/2019	Passed	-0.04	Passed	-0.01
07/02/2019	Passed	-0.04	Passed	-0.03
08/02/2019	Passed	-0.06	Passed	-0.05
09/02/2019	Passed	-0.06	Passed	-0.04
10/02/2019	Passed	-0.08	Passed	-0.06
11/02/2019	Passed	-0.06	Passed	-0.06
12/02/2019	Passed	-0.06	Passed	-0.09
13/02/2019	Passed	-0.06	Passed	-0.05
14/02/2019	Passed	-0.08	Passed	-0.05
15/02/2019	Passed	-0.03	Passed	-0.03
16/02/2019	Passed	-0.04	Passed	-0.05
17/02/2019	Passed	-0.03	Passed	-0.06
18/02/2019	Passed	-0.07	Passed	-0.09
19/02/2019	Passed	-0.05	Passed	-0.03
20/02/2019	Passed	-0.03	Passed	-0.02
21/02/2019	Passed	-0.03	Passed	-0.03
22/02/2019	Passed	-0.04	Passed	-0.04
23/02/2019	Passed	-0.11	Passed	-0.07
24/02/2019	Passed	-0.09	Passed	-0.06
25/02/2019	Passed	-0.08	Passed	-0.04
26/02/2019	Passed	-0.07	Passed	-0.06
27/02/2019	Passed	-0.03	Passed	-0.04
28/02/2019	Passed	-0.07	Passed	-0.03

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.