

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: January 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) |
| 06/01/2019 | 270.936 | 4 | 3.13 | 14.24 |
| 12/01/2019 | 270.277 | 4 | 3.05 | 13.92 |
| 18/01/2019 | 272.100 | 4 | 3.14 | 14.30 |
| 24/01/2019 | 271.259 | 4 | 3.11 | 14.19 |
| 30/01/2019 | 270.471 | 4 | 3.09 | 14.06 |

| 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) |
| 06/01/2019 | 259.218 | 4 | 2.90 | 14.16 |
| 12/01/2019 | 258.490 | 4 | 3.09 | 14.18 |
| 18/01/2019 | 259.372 | 4 | 2.92 | 14.24 |
| 24/01/2019 | 258.491 | 4 | 2.94 | 14.12 |
| 30/01/2019 | 259.484 | 4 | 2.72 | 14.01 |

| 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) |
| 06/01/2019 | 257.918 | 4 | 3.00 | 14.32 |
| 12/01/2019 | 258.782 | 4 | 3.00 | 13.67 |
| 18/01/2019 | 258.182 | 4 | 3.00 | 13.67 |
| 24/01/2019 | 257.372 | 4 | 3.00 | 13.67 |
| 30/01/2019 | 256.664 | 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 | X | X | X |
| Leak Check | X | X | X |
| 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 |
|--------------------|------------------|
| 14/01/2019 / 10:30 | WM Tam / HT Pang |

Equipment / Item

| Equipment / Item | Serial No. / No. |
|-----------------------|------------------|
| MINIVOL | 5580 |
| Used filter paper no. | MP94 |
| New filter paper no. | MP95 |

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: 4.973
After: 5.017

- 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: No
6. Replace Inlet Filter: Yes

Remarks

Conducted by: WM Tam / HT Pang

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 |
|--------------------|---------------------|
| 21/01/2019 / 13:15 | WM Tam / Chris Chan |

| Equipment | Serial No. |
|-----------|------------|
| B&K 2250 | 3024699 |

1. Calibration

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

Noise level measured in calibration: 93.9 (94 ±1.0 dBA)

2. Weather Conditions

a. Fine

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) |
| 01/01/2019 | Passed | -0.08 |
| 02/01/2019 | Passed | -0.08 |
| 03/01/2019 | Passed | -0.09 |
| 04/01/2019 | Passed | -0.05 |
| 05/01/2019 | Passed | -0.04 |
| 06/01/2019 | Passed | -0.08 |
| 07/01/2019 | Passed | -0.06 |
| 08/01/2019 | Passed | -0.07 |
| 09/01/2019 | Passed | -0.09 |
| 10/01/2019 | Passed | -0.03 |
| 11/01/2019 | Passed | -0.05 |
| 12/01/2019 | Passed | -0.04 |
| 13/01/2019 | Passed | -0.07 |
| 14/01/2019 | Passed | -0.09 |
| 15/01/2019 | Passed | -0.05 |
| 16/01/2019 | Passed | -0.07 |
| 17/01/2019 | Passed | -0.09 |
| 18/01/2019 | Passed | -0.07 |
| 19/01/2019 | Passed | -0.06 |
| 20/01/2019 | Passed | -0.03 |
| 21/01/2019 | Passed | -0.06 |
| 22/01/2019 | Passed | -0.10 |
| 23/01/2019 | Passed | -0.09 |
| 24/01/2019 | Passed | -0.08 |
| 25/01/2019 | Passed | -0.07 |
| 26/01/2019 | Passed | -0.07 |
| 27/01/2019 | Passed | -0.09 |
| 28/01/2019 | Passed | -0.06 |
| 29/01/2019 | Passed | -0.06 |
| 30/01/2019 | Passed | -0.03 |
| 31/01/2019 | Passed | -0.05 |

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.