

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
TEOM Continuous Dust Monitor
Data Quality Assurance Log Sheet

Month: October

Year: 2023

| 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) |
| 5/10/2023 | 269.430 | 4 | 2.82 | 10.31 |
| 11/10/2023 | 269.016 | 4 | 2.89 | 10.31 |
| 17/10/2023 | 268.515 | 4 | 2.88 | 10.31 |
| 23/10/2023 | 267.942 | 4 | 2.88 | 10.31 |
| 29/10/2023 | 267.508 | 4 | 2.89 | 10.31 |

| 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) |
| 5/10/2023 | 265.616 | 4 | 3.00 | 13.66 |
| 11/10/2023 | 266.254 | 4 | 3.00 | 13.66 |
| 17/10/2023 | 265.744 | 4 | 3.00 | 13.66 |
| 23/10/2023 | 265.137 | 4 | 3.00 | 13.66 |
| 29/10/2023 | 264.731 | 4 | 3.00 | 13.66 |

| 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) |
| 5/10/2023 | 256.881 | 4 | 1.71 | 13.67 |
| 11/10/2023 | 256.918 | 4 | 1.62 | 13.68 |
| 17/10/2023 | 256.715 | 4 | 1.48 | 13.68 |
| 23/10/2023 | 256.519 | 4 | 1.47 | 13.67 |
| 29/10/2023 | 256.364 | 4 | 1.42 | 13.42 |

| 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 |
|--------------------|-------------------|
| 10/10/2023 / 10:45 | WM Tam / Brian So |

Equipment / Item

| Equipment / Item | Serial No. / No. |
|-----------------------|------------------|
| MINIVOL | 5580 |
| Used filter paper no. | MS85 |
| New filter paper no. | MS86 |

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 (No adjustment)

- 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

N/A

Conducted by: WM Tam / Brian So

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 |
|-------------------|--------------------|
| 4/10/2023 / 14:30 | Thomas Ho/Brian So |

| Equipment | Serial No. |
|-----------|------------|
| B&K 2250 | 3008621 |

1. Calibration

Acoustic calibrator:

B&K 4231 (S/N: 3014754)

Noise level measured in calibration:

94.0 (94 ±1.0 dBA)

2. Weather Conditions

a. Sunny

b. Calm

3. Remark/Observation

N/A

Prepared by: Thomas Ho

Checked by: Brian So

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

| Date | Location: Ching Lam | |
|------------|---------------------|-------------------------------|
| | Calibration Results | Deviation from Reference (dB) |
| 01/10/2023 | Passed | -0.03 |
| 02/10/2023 | Passed | -0.03 |
| 03/10/2023 | Passed | -0.01 |
| 04/10/2023 | Passed | -0.01 |
| 05/10/2023 | Passed | 0.02 |
| 06/10/2023 | Passed | -0.09 |
| 07/10/2023 | Passed | -0.06 |
| 08/10/2023 | Passed | -0.09 |
| 09/10/2023 | Passed | -0.10 |
| 10/10/2023 | Passed | -0.07 |
| 11/10/2023 | Passed | -0.05 |
| 12/10/2023 | Passed | -0.07 |
| 13/10/2023 | Passed | -0.05 |
| 14/10/2023 | Passed | -0.06 |
| 15/10/2023 | Passed | -0.06 |
| 16/10/2023 | Passed | -0.04 |
| 17/10/2023 | Passed | -0.08 |
| 18/10/2023 | Passed | -0.06 |
| 19/10/2023 | Passed | -0.08 |
| 20/10/2023 | Passed | -0.07 |
| 21/10/2023 | Passed | -0.09 |
| 22/10/2023 | Passed | -0.08 |
| 23/10/2023 | Passed | -0.07 |
| 24/10/2023 | Passed | -0.05 |
| 25/10/2023 | Passed | -0.06 |
| 26/10/2023 | Passed | -0.07 |
| 27/10/2023 | Passed | -0.06 |
| 28/10/2023 | Passed | -0.07 |
| 29/10/2023 | Passed | -0.07 |
| 30/10/2023 | Passed | -0.06 |
| 31/10/2023 | 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.