

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

Month: August

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) |
| 6/8/2023 | 267.554 | 4 | 2.80 | 10.31 |
| 12/8/2023 | 267.168 | 4 | 2.82 | 10.31 |
| 18/8/2023 | 266.620 | 4 | 2.83 | 10.31 |
| 24/8/2023 | 266.339 | 4 | 2.83 | 10.31 |
| 30/8/2023 | 265.184 | 4 | 2.81 | 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) |
| 6/8/2023 | 264.056 | 4 | 3.00 | 13.66 |
| 12/8/2023 | 267.405 | 4 | 3.00 | 13.66 |
| 18/8/2023 | 266.724 | 4 | 3.00 | 13.66 |
| 24/8/2023 | 266.403 | 4 | 3.00 | 13.66 |
| 30/8/2023 | 266.070 | 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) |
| 6/8/2023 | 257.077 | 4 | 1.22 | 13.68 |
| 12/8/2023 | 256.987 | 4 | 1.22 | 13.68 |
| 18/8/2023 | 257.336 | 4 | 2.54 | 13.48 |
| 24/8/2023 | 257.139 | 4 | 2.19 | 13.68 |
| 30/8/2023 | 256.960 | 4 | 2.03 | 13.68 |

| 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 |
|--------------------|-------------------|
| 23/08/2023 / 10:00 | WM Tam / Brian So |

Equipment / Item

| Equipment / Item | Serial No. / No. |
|-----------------------|------------------|
| MINIVOL | 5580 |
| Used filter paper no. | MS76 |
| New filter paper no. | MS77 |

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: 5.005
After: 5.005 (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
Daily Calibration Records

| Date | Location: Ash Lagoon | |
|------------|----------------------|-------------------------------|
| | Calibration Results | Deviation from Reference (dB) |
| 01/08/2023 | Passed | 0.02 |
| 02/08/2023 | * | * |
| 03/08/2023 | * | * |
| 04/08/2023 | * | * |
| 05/08/2023 | * | * |
| 06/08/2023 | * | * |
| 07/08/2023 | * | * |
| 08/08/2023 | * | * |
| 09/08/2023 | * | * |
| 10/08/2023 | * | * |
| 11/08/2023 | * | * |
| 12/08/2023 | * | * |
| 13/08/2023 | * | * |
| 14/08/2023 | Passed | 0 |
| 15/08/2023 | Passed | 0.01 |
| 16/08/2023 | Passed | 0.01 |
| 17/08/2023 | Passed | 0 |
| 18/08/2023 | Passed | -0.01 |
| 19/08/2023 | * | * |
| 20/08/2023 | Passed | 0.01 |
| 21/08/2023 | Passed | 0 |
| 22/08/2023 | Passed | 0.01 |
| 23/08/2023 | Passed | 0.02 |
| 24/08/2023 | Passed | 0 |
| 25/08/2023 | Passed | 0.01 |
| 26/08/2023 | Passed | 0.01 |
| 27/08/2023 | Passed | 0 |
| 28/08/2023 | Passed | 0.01 |
| 29/08/2023 | Passed | 0 |
| 30/08/2023 | Passed | 0.01 |
| 31/08/2023 | Passed | 0.01 |

Remarks:

1. * - Due to error in downloading noise data, the CIC calibration record was lost.
2. 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).
3. The acceptance criterion of deviation from reference is ± 0.5 dB.