

# LONDON CITY AIRPORT

2013 SECTION 106 ANNUAL PERFORMANCE REPORT

## APPENDIX 10 TEMPORARY NOISE MONITORING STRATEGY REPORTS

08 July 2014

London City Airport  
City Aviation House  
Royal Docks  
London E16 2PB  
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# **Bickerdike Allen Partners**

**LONDON CITY AIRPORT  
NOISE & TRACK KEEPING STATUS REPORT  
JANUARY 2013 – MARCH 2013**

**Report to**

**Mr Gary Hodgetts  
Director Operations Policy & Planning  
London City Airport  
The Royal Docks  
London  
E16 2PB**

**A1125.121-R15 VVdH  
8<sup>th</sup> April 2013**

# Bickerdike Allen Partners

## INTRODUCTION

Under paragraph A6.0 of the approved Temporary Noise Monitoring Strategy, London City Airport is required to provide quarterly reports of the Noise and Track Keeping system to the London Borough of Newham.

This report details the daily operational status of each monitor and the monthly correlation rate of noise events to aircraft departures for the quarterly period 1<sup>st</sup> January 2013 to 31<sup>st</sup> March 2013.

## NMT STATUS

A summary of the status of each Noise Monitoring Terminal (NMT) is given in Table 1 below. A detailed summary is given in Appendix A showing whether both noise events and flight information data (FIDs) have been obtained on a daily basis. During this quarterly period, all of the NMTs were fully operational, and data received for each day.

Between the 14<sup>th</sup> February and the 28<sup>th</sup> February a deterioration in a telephone line serving NMTs 1, 3 and 4 meant that data could not be downloaded from these noise monitors during this period. Once the cause of the problem was identified, connection to the NMTs was re-established and data successfully retrieved. No data was lost during this period.

Analysis of the data and calibration checks indicate that the data from all of the NMTs is reliable and consistent with noise levels measured during previous months.

| <b>NMT</b> | <b>Calibration</b> | <b>Data</b>                |
|------------|--------------------|----------------------------|
| 1          | OK                 | Data received for all days |
| 2          | OK                 | Data received for all days |
| 3          | OK                 | Data received for all days |
| 4          | OK                 | Data received for all days |

Table 1 – Summary of NMT status

# Bickerdike Allen Partners

## CORRELATION RATE

A summary of the correlation rate for each month is given in Table 2 below. In order to calculate the rate of correlation, the number of departures correlated has been compared against the number of operations at London City Airport<sup>1</sup> during the same period. It has been assumed that the number of departures constitute 50% of the total number of operations.

| Month    | No. Operations | No. Correlated Dep. | Correlation Rate |
|----------|----------------|---------------------|------------------|
| January  | 5399           | 2458                | 91%              |
| February | 5725           | 2678                | 94%              |
| March    | 6062           | 2974                | 98%              |

Table 2 – Summary of correlation rate

## SUMMARY

During the quarterly period from 1<sup>st</sup> January 2013 to 31<sup>st</sup> March 2013, FIDs was received for all days, and the NMT's were fully operational. A total of 8,110 departure events were successfully recorded and a correlation rate of 91% or above achieved.

**Valerie Van den Hende**  
for Bickerdike Allen Partners

**Peter Henson**  
Partner

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<sup>1</sup> Number of monthly operations supplied by Airport2020 Client Flight Information Database.

# Bickerdike Allen Partners

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 01/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/01/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

**LONDON CITY AIRPORT  
NOISE & TRACK KEEPING STATUS REPORT  
APRIL 2013 – JUNE 2013**

Report to

Mr Gary Hodgetts  
Director Operations Policy & Planning  
London City Airport  
City Aviation House  
The Royal Docks  
London  
E16 2PB

A1125.121-R16-VVdH  
5<sup>th</sup> July 2013

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**Practice Secretary** Brenda Ward-Millar

**LONDON CITY AIRPORT  
NOISE & TRACK KEEPING STATUS REPORT  
JULY 2013 – SEPTEMBER 2013**

Report to

Mr Gary Hodgetts  
Director Operations Policy & Planning  
London City Airport  
City Aviation House  
The Royal Docks  
London  
E16 2PB

A1125.121-R17-NW  
24<sup>th</sup> October 2013

**LONDON CITY AIRPORT  
NOISE & TRACK KEEPING STATUS REPORT  
OCTOBER 2013 – DECEMBER 2013**

Report to

Mr Gary Hodgetts  
Director Operations Policy & Planning  
London City Airport  
City Aviation House  
The Royal Docks  
London  
E16 2PB

A1125.121-R18-NW  
13<sup>th</sup> January 2014



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## 1.0 INTRODUCTION

Under paragraph A6.0 of the approved Temporary Noise Monitoring Strategy, London City Airport is required to provide quarterly reports of the Noise and Track Keeping system to the London Borough of Newham.

This report details the operational status of each monitor and the monthly correlation rate of noise events to aircraft departures for the quarterly period 1<sup>st</sup> October 2013 to 30<sup>th</sup> December 2013.

## 2.0 NMT STATUS

A summary of the status of each Noise Monitoring Terminal (NMT) is given in Table 1 below. A detailed summary is given in Appendix A showing whether both noise events and Flight Information and Display System (FIDS) have been obtained on a daily basis.

During this quarterly period, all of the NMTs were fully operational, and data received for each day, with the exception of NMT2 on 3<sup>rd</sup> October. This was due to a failure of the power supply. While this issue was being fixed, NMT8 was set up in the NMT2 location so that only one day of data was lost.

| NMT | Calibration | Data  |
|-----|-------------|---|
| 1   | OK          | Data received for all days                                |
| 2   | OK          | Data received for all days except 3 <sup>rd</sup> October |
| 3   | OK          | Data received for all days                                |
| 4   | OK          | Data received for all days                                |

**Table 1: Summary of NMT status**

## 3.0 CORRELATION RATE

A summary of the correlation rate for each month is given in Table 2 below. In order to calculate the rate of correlation, the number of departures correlated has been compared against the number of operations at London City Airport<sup>1</sup> during the same period. It has been assumed that the number of departures constitute fifty percent of the total number of operations.

---

<sup>1</sup> Number of monthly operations supplied by Airport2020 Client Flight Information Database

| <b>Month</b> | <b>No. Operations</b> | <b>No. Correlated Departures</b> | <b>Correlation Rate</b> |
|--------------|-----------------------|----------------------------------|-------------------------|
| October      | 6773                  | 3204                             | 95%                     |
| November     | 6201                  | 2861                             | 92%                     |
| December     | 4969                  | 2238                             | 90%                     |

**Table 2: Summary of correlation rate**

#### **4.0 SUMMARY**

During the quarterly period from 1<sup>st</sup> October 2013 to 31<sup>st</sup> December 2013, there was a minor issue with NMT 2 on 3<sup>rd</sup> October. A total of 8,303 departure events were successfully recorded and a correlation rate of 90% or above achieved.

**Nick Williams**  
for Bickerdike Allen Partners

**Peter Henson**  
Partner

## APPENDIX A

### NMT STATUS BY DATE

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 01/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/10/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 04/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/10/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 06/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/11/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 12/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/12/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |



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Appendix A: NMT status by date

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## 1.0 INTRODUCTION

Under paragraph A6.0 of the approved Temporary Noise Monitoring Strategy, London City Airport is required to provide quarterly reports of the Noise and Track Keeping system to the London Borough of Newham.

This report details the daily operational status of each monitor and the monthly correlation rate of noise events to aircraft departures for the quarterly period 1<sup>st</sup> July 2013 to 30<sup>th</sup> September 2013.

During the month of September, the four existing noise monitoring terminals were replaced with new noise monitors, supplied and installed by Topsonic.

## 2.0 NMT STATUS

A summary of the status of each Noise Monitoring Terminal (NMT) is given in Table 1 below. A detailed summary is given in Appendix A showing whether both noise events and Flight Information and Display System (FIDS) have been obtained on a daily basis.

In July 2013, NMTs 1, 2 and 3 were fully operational, and data received for each day. NMT 4 was fully operational and data received for each day except for the 15<sup>th</sup> due to remote communication with the NMT being lost. LCA visited the site the next day and restarted the NMT which fixed the issue.

In August 2013, NMTs 1, 3 and 4 were fully operational, and data received for each day. NMT 2 was non-operational between the 4<sup>th</sup> and the 12<sup>th</sup> due to a system fault that caused the noise monitor to trigger continuously, meaning that the aircraft noise events could not be identified. This was rectified by B&K on the 12<sup>th</sup>. Temporary noise monitoring was put in place by Bickerdike Allen Partners on the 9<sup>th</sup> to capture departing noise events until the fault at NMT 2 was rectified.

In September 2013, London City Airport upgraded its noise monitoring and flight track keeping system which included the replacement of the four Brüel and Kjær NMTs with four new NMTs, supplied and installed by Topsonic. No changes to the masts were made so measurements continue to be made at the same positions as before using new microphones. The installation works for this new system meant that all NMTs were non-operational on the 24<sup>th</sup> and 25<sup>th</sup>. NMT 2 developed a system fault on the 21<sup>st</sup> and the cause of the fault could not be identified. Remote and physical attempts to remedy the equipment were undertaken by LCA, however by the 24<sup>th</sup> the new system was ready to be installed so no further action was taken.

For a total of approximately 3 days while NMT 2 was non-operational during this quarter, runway 09 was in use due to a change in wind direction, so departure noise events were captured by NMTs 3 and 4.

Initial analysis of the data and calibration checks indicate that the data from all of the NMTs is reliable and consistent with noise levels measured during previous months. A detailed review of this is currently in progress.

| NMT | Calibration | Data   |
|-----|-------------|--|
| 1   | OK          | Data received for all days except 24 <sup>th</sup> and 25 <sup>th</sup> September  |
| 2   | OK          | Data received for all days except 4 <sup>th</sup> to 8 <sup>th</sup> August and 21 <sup>st</sup> to 25 <sup>th</sup> September, including temporary noise monitoring |
| 3   | OK          | Data received for all days except 24 <sup>th</sup> and 25 <sup>th</sup> September  |
| 4   | OK          | Data received for all days except 15 <sup>th</sup> July, 24 <sup>th</sup> and 25 <sup>th</sup> September   |

**Table 1: Summary of NMT status**

### 3.0 CORRELATION RATE

A summary of the correlation rate for each month is given in Table 2 below. In order to calculate the rate of correlation, the number of departures correlated has been compared against the number of operations at London City Airport<sup>1</sup> during the same period. It has been assumed that the number of departures constitute fifty percent of the total number of operations.

| Month     | No. Operations | No. Correlated Departures | Correlation Rate |
|-----------|----------------|---------------------------|------------------|
| July      | 6727           | 3150                      | 94%              |
| August    | 5779           | 2342                      | 81%              |
| September | 6486           | 2767                      | 85%              |

**Table 2: Summary of correlation rate**

<sup>1</sup> Number of monthly operations supplied by Airport2020 Client Flight Information Database

#### **4.0 SUMMARY**

During the quarterly period from 1<sup>st</sup> July 2013 to 30<sup>th</sup> September 2013, there was a minor issue with NMT 4 on 15<sup>th</sup> July and there were issues with NMT 2 that caused it to be non-operational for periods in both August and September. For the longer of these periods, a temporary noise monitor was deployed to minimise the loss of data. In September 2013, London City Airport upgraded its noise and flight track keeping system which included the replacement of the four existing NMTs with four new NMTs. This resulted in 2 days without operational NMTs. Despite these issues, the target correlation rate was met in each month. A total of 8,259 departure events were successfully recorded and a correlation rate of 81% or above achieved.

**Nick Williams**  
for Bickerdike Allen Partners

**Peter Henson**  
Partner

## APPENDIX A

### NMT STATUS BY DATE

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 01/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/07/2013 | Yes             | Yes             | Yes             | No              | Yes  |
| 16/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/07/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/08/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 05/08/2013 | Yes             | No              | Yes             | Yes             | Yes  |

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 06/08/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 07/08/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 08/08/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 09/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/08/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 11/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/09/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 22/09/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 23/09/2013 | Yes             | No              | Yes             | Yes             | Yes  |
| 24/09/2013 | No              | No              | No              | No              | No   |
| 25/09/2013 | No              | No              | No              | No              | No   |
| 26/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/09/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |



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Appendix A: NMT status by date

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## 1.0 INTRODUCTION

Under paragraph A6.0 of the approved Temporary Noise Monitoring Strategy, London City Airport is required to provide quarterly reports of the Noise and Track Keeping system to the London Borough of Newham.

This report details the daily operational status of each monitor and the monthly correlation rate of noise events to aircraft departures for the quarterly period 1<sup>st</sup> April 2013 to 30<sup>th</sup> June 2013.

## 2.0 NMT STATUS

A summary of the status of each Noise Monitoring Terminal (NMT) is given in Table 1 below. A detailed summary is given in Appendix A showing whether both noise events and Flight Information and Display System (FIDS) have been obtained on a daily basis. During this quarterly period, all of the NMTs were fully operational, and data received for each day.

Analysis of the data and calibration checks indicate that the data from all of the NMTs is reliable and consistent with noise levels measured during previous months.

| NMT | Calibration | Data                       |
|-----|-------------|----------------------------|
| 1   | OK          | Data received for all days |
| 2   | OK          | Data received for all days |
| 3   | OK          | Data received for all days |
| 4   | OK          | Data received for all days |

**Table 1: Summary of NMT status**

### 3.0 CORRELATION RATE

A summary of the correlation rate for each month is given in Table 2 below. In order to calculate the rate of correlation, the number of departures correlated has been compared against the number of operations at London City Airport<sup>1</sup> during the same period. It has been assumed that the number of departures constitute fifty percent of the total number of operations.

| Month | No. Operations | No. Correlated Departures | Correlation Rate |
|-------|----------------|---------------------------|------------------|
| April | 6262           | 2953                      | 94%              |
| May   | 6725           | 3054                      | 91%              |
| June  | 6534           | 2995                      | 92%              |

**Table 2: Summary of correlation rate**

### 4.0 SUMMARY

During the quarterly period from 1<sup>st</sup> April 2013 to 30<sup>th</sup> June 2013, FIDS was received for all days and the NMTs were fully operational. A total of 9,002 departure events were successfully recorded and a correlation rate of 91% or above achieved.

**Valerie Van den Hende**  
for Bickerdike Allen Partners

**Peter Henson**  
Partner

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<sup>1</sup> Number of monthly operations supplied by Airport2020 Client Flight Information Database

## APPENDIX A

### NMT STATUS BY DATE

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 01/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/04/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 07/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/05/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 12/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/06/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |

# Bickerdike Allen Partners

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 11/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 24/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/02/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 01/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 02/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 03/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 04/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 05/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 06/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 07/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 08/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 09/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 10/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 11/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 12/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 13/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 14/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 15/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 16/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 17/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 18/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 19/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 20/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 21/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 22/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 23/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |



# Bickerdike Allen Partners

| DATE       | NOISE EVENTS    |                 |                 |                 | FIDS |
|------------|-----------------|-----------------|-----------------|-----------------|------|
|            | NMT 1<br>Events | NMT 2<br>Events | NMT 3<br>Events | NMT 4<br>Events |      |
| 24/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 25/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 26/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 27/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 28/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 29/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 30/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |
| 31/03/2013 | Yes             | Yes             | Yes             | Yes             | Yes  |