

AAAI Report 1531 AAAI Project 88018

QUARTERLY NOISE MONITORING AT HOLLYWOOD BURBANK AIRPORT SECOND QUARTER 2018

SEPTEMBER 2018

Prepared for:



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September 2018

Prepared for:

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QUARTERLY NOISE MONITORING AT HOLLYWOOD BURBANK AIRPORT SECOND QUARTER 2018

I. INTRODUCTION

In compliance with the California Noise Standards (Reference 1) and the current variance from certain provisions of the Standards (Reference 2), the operator of the Hollywood Burbank Airport is required to perform noise monitoring in the vicinity of the airport for the purpose of establishing a noise impact boundary. The Noise Standards currently specify a community noise equivalent level (CNEL) of 65 dB for the noise impact boundary. The airport is required to provide, each quarter, an updated annual noise impact contour based on measurement data over the four preceding quarters.

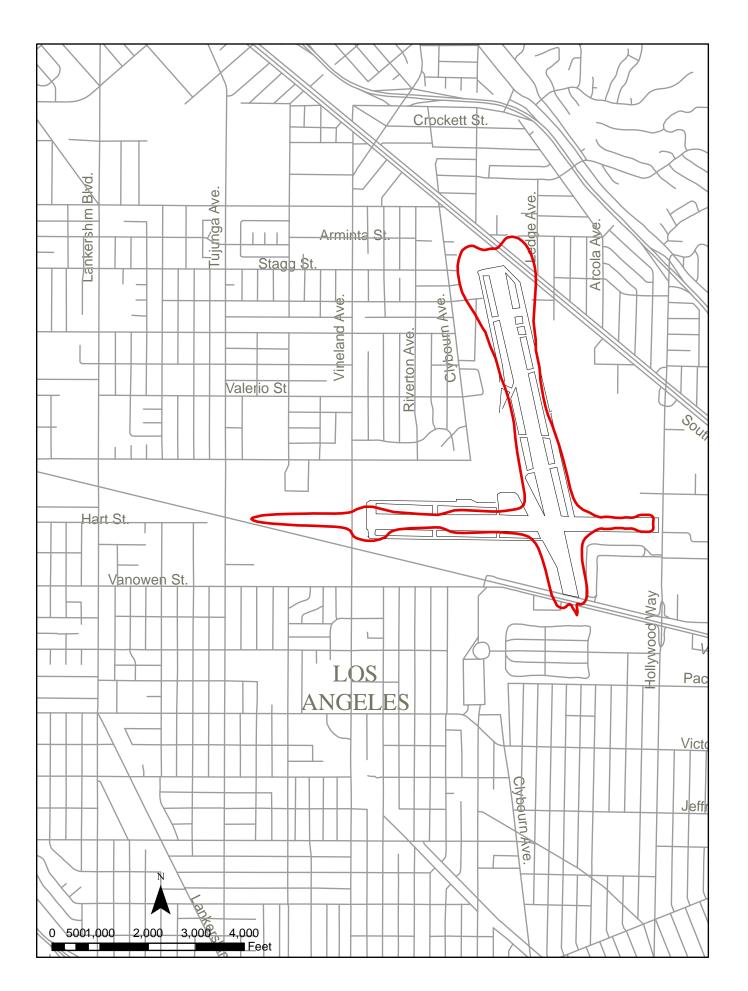
A permanent noise monitoring system became operational in April 1980 and, with brief interruption for system expansion, maintenance, and program changes, has been operational since that time. Of the original nine noise monitor sites, eight have remained unchanged since 1980. The monitor at site 8 was removed in 1997 and replaced by a monitor at site 18. Two sites were added east of the airport in late 1980. Four sites were added south of the airport in January 1986 in response to the requirement to determine the 65 dB contour. Three more locations were added in February 1997. Two of these, identified as 16 and 17, are south of the airport, and one, 18, is to the west. These locations were added to permit monitoring closer to the 65 dB contour. The noise monitoring computer at the airport was replaced in August 1995.

The Hollywood Burbank Airport Noise Monitoring System was modernized and augmented in late December 2012 by replacing the noise and flight track matching software, the noise monitoring hardware, and by adding sites 19, 20, 21, and 22 to allow closer monitoring to the current 65 dB CNEL contour. The old site 17 was removed as redundant with site 15, so the updated noise monitoring system contains 20 permanent microphone locations.

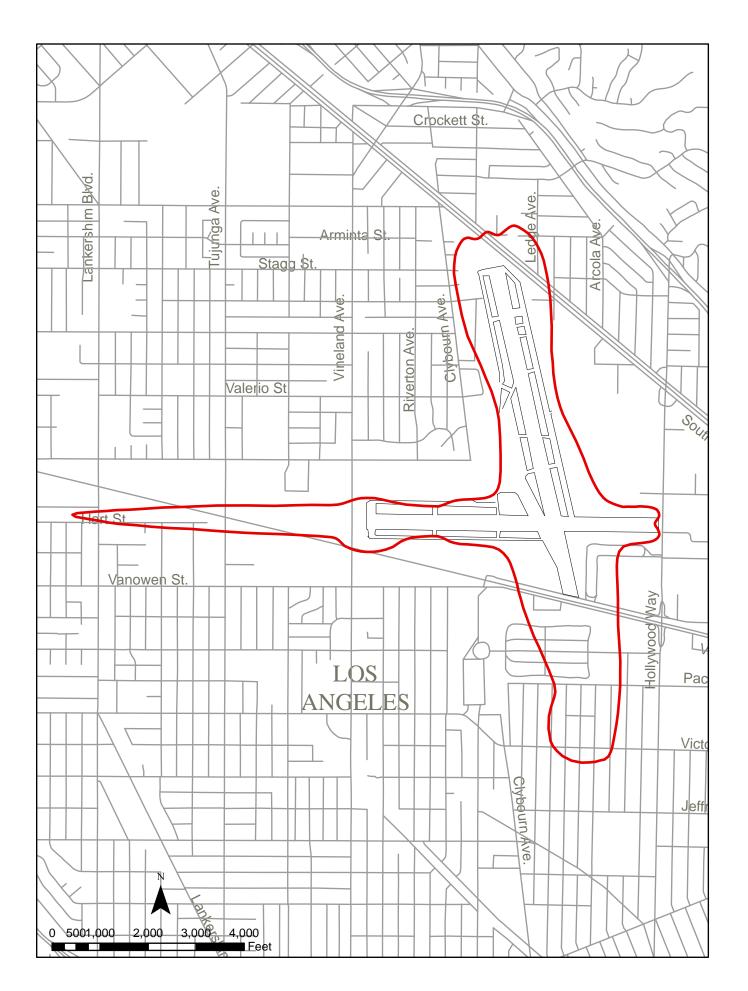
This report describes the data acquired by the monitoring system during the second quarter of 2018. Noise impact boundaries for 65 dB and 70 dB are shown based on these measurements and measurements obtained during the third and fourth quarter 2017 and first quarter 2018

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¹ Prior to January 1, 1986, a CNEL of 70 dB defined the noise impact boundary.



BURBANK AIRPORT - 70 CNEL CONTOUR for 2nd QUARTER 2018



reported in References 3, 4 and 5. Figure 1 shows the 70 dB contour and Figure 2 shows the 65 dB contour, based on the measured noise data.

II. NOISE MEASUREMENTS

A. Sites

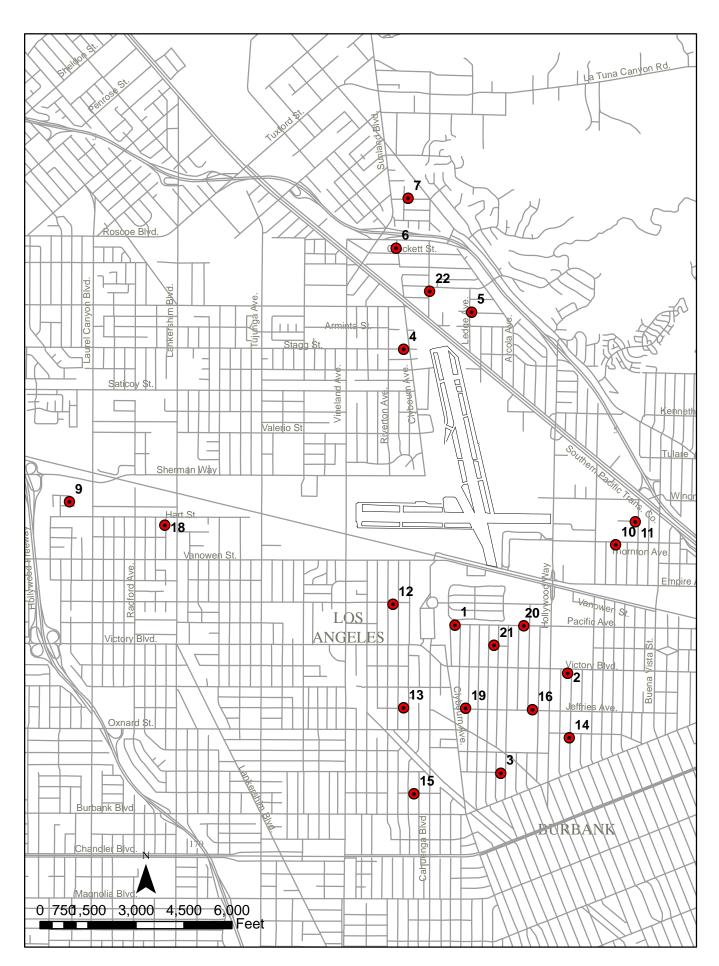
Aircraft noise levels were monitored at 15 locations prior to February, 1997. Two sites were added in February 1997, and equipment at one site west of the airport was moved to a new location. In July 2003, the monitor station at site 9 was moved 105 feet further west to accommodate new construction at the Fire Station. In December 2012, four new monitor sites were added and one existing site removed as redundant, leaving a total of twenty noise monitoring locations. The noise monitor sites are shown in Figure 3.

B. Noise Measurement Equipment

Each of the microphone locations uses an identical set of equipment connected to a central control unit. The noise level at each site is stored locally and transmitted by broad band connection to the central site once per 24-hour period. The automated noise and flight track monitoring software processes the data to produce (among other measures) the CNEL at each site. Appendix A provides a brief description of the system.

C. Noise Data

During this quarter, there were occasional power interruptions and monitor equipment failures, causing some loss of data. Tables 1, 2, and 3 show the aircraft CNEL measured at each monitoring site for each day of the quarter. The dashed lines indicate days for which a monitor was operating for less than 94% of the time. The data for these days was excluded from the averages.



BURBANK AIRPORT - NOISE MONITOR LOCATIONS

D. Operational Data

Departure and arrival schedules are provided by the airlines. In addition, operations of air carrier, general aviation and rotary-wing aircraft are determined from the airport's computerized flight tracking system.

III. MEASURED NOISE DATA

Daily CNEL values for the noise monitoring system are listed in Tables 1, 2, and 3. Table 4 lists the average values for each quarter together with the annual average.

IV. SCHEDULED AIRLINE AND AIR TAXI OPERATIONS

The scheduled air carrier and commuter operations for the quarter are shown in Table 5.

V. CNEL CONTOUR DEVELOPMENT

The contours shown in Figures 1 and 2 are based upon computer-generated "master" contours which are adjusted to reflect the monitoring data. Beginning with the second quarter 2009, noise contours are developed using the master contours produced by Version 7.0 of the Integrated Noise Model (INM), a sophisticated aircraft noise modeling program developed for the Federal Aviation Administration. Inputs to the program consist of aircraft types and performance data, flight paths, numbers of operations, and day/evening/night distribution of flights. The program calculates CNEL values at equally spaced grid points and produces CNEL contour lines at 1 dB intervals. The annual average CNEL values at each site were marked at the appropriate locations on the contour map and the locations of the 65 and 70 dB CNEL contours were determined in the vicinity of each measuring point. These points were then joined following the general shape of the computed contours.

The master contours used in developing the contours for this quarter are based on operations for the 12-month period from January 1, 2014 through December 31, 2014. These replaced the previous master set of CNEL Contours which were based on operations for the 12-month period from July 2008 through June 2009.

TABLE 1. CNEL VALUES FOR APRIL 2018

RMS NUMBER

5 6 7 9 10 11 12 13 14 15 16 18 19 20 21 Date 3 4 04/01/18 62.2 60.2 62.0 55.7 55.0 52.4 53.6 61.9 52.6 53.1 53.1 57.6 58.3 60.8 62.8 61.2 63.5 66.3 68.1 57.7 04/02/18 62.7 61.1 62.1 54.6 57.2 52.2 52.9 61.9 55.2 46.9 53.5 59.2 59.6 61.5 62.9 61.3 64.1 66.8 68.3 58.7 04/03/18 62.1 60.2 61.4 56.0 57.0 54.3 54.7 63.6 51.9 53.8 54.2 59.3 58.1 60.9 62.0 63.0 63.5 65.6 67.4 62.1 04/04/18 61.9 59.6 60.5 57.0 54.3 49.5 52.2 63.7 47.7 50.6 53.5 58.3 57.4 60.5 61.5 63.5 63.2 65.0 67.0 57.7 04/05/18 63.3 61.2 62.7 58.9 55.1 52.5 52.7 63.6 53.3 52.7 54.6 59.4 59.2 61.9 63.4 62.5 64.8 66.9 68.7 58.5 04/06/18 62.4 60.4 61.8 59.0 56.9 53.3 58.8 --- 47.5 46.8 53.8 59.1 58.4 61.0 62.7 63.0 63.6 66.2 68.1 64.2 04/07/18 60.4 58.5 59.6 56.2 53.5 55.7 54.6 60.8 51.1 48.5 51.8 56.1 55.9 59.5 59.8 60.1 62.4 64.1 66.4 61.3 04/08/18 62.1 60.7 62.3 56.1 55.0 48.9 53.5 61.6 53.3 49.5 55.0 57.3 58.6 60.6 63.2 60.7 63.6 66.3 68.1 57.6 04/09/18 61.1 59.3 60.4 57.1 57.2 52.0 52.7 61.4 54.9 55.5 53.5 55.3 57.2 57.9 61.8 60.9 61.4 65.2 66.7 55.9 04/10/18 61.5 59.0 59.8 55.4 55.8 52.2 51.3 61.9 52.0 54.2 54.2 57.8 56.5 59.2 60.7 61.4 62.4 64.8 66.8 59.5 04/11/18 62.6 60.0 61.5 58.2 57.0 53.1 56.0 63.1 53.7 51.9 55.7 59.1 57.9 61.4 61.9 63.0 64.2 65.6 67.5 60.1 04/12/18 62.0 59.1 60.3 63.6 65.0 64.9 61.0 58.2 56.8 56.4 57.6 55.5 58.4 56.1 66.0 57.2 59.9 65.9 66.0 66.7 04/13/18 62.2 59.1 61.4 58.2 60.0 60.3 57.1 60.2 51.7 53.1 53.8 55.6 58.3 58.1 65.1 59.8 61.5 66.9 68.2 63.3 04/14/18 59.2 54.5 58.0 52.2 56.1 57.1 53.8 58.4 50.8 56.7 53.2 53.1 54.9 55.7 59.5 57.2 57.4 62.7 64.5 60.8 04/15/18 62.3 60.0 61.2 57.8 55.3 48.8 52.8 61.3 50.1 48.7 54.5 58.3 57.7 60.3 62.1 61.3 63.5 65.7 67.8 57.3 04/16/18 62.2 61.3 62.2 59.5 62.0 61.7 59.4 61.7 53.5 55.1 53.8 56.7 59.6 59.3 64.8 61.8 62.5 66.7 68.0 64.8 04/17/18 61.8 59.2 60.4 60.1 61.5 61.3 60.1 62.4 52.6 53.8 54.1 58.2 56.9 59.3 61.5 62.1 62.5 64.6 66.4 64.9 04/18/18 61.6 59.8 60.6 56.8 56.4 54.1 57.5 62.5 52.7 52.0 53.5 58.1 57.6 59.7 61.3 62.5 62.6 64.9 66.4 63.8 04/19/18 63.1 61.5 62.8 56.4 57.2 49.2 52.6 63.4 51.2 49.6 54.0 59.1 59.3 61.7 63.4 63.1 64.6 66.7 68.4 58.3 04/20/18 62.6 58.2 61.3 58.2 56.4 59.0 58.1 63.0 50.9 50.6 53.5 58.7 58.2 61.0 62.3 63.1 63.7 65.7 67.5 64.5 04/21/18 57.9 54.9 57.0 45.2 51.3 50.0 53.2 59.6 49.4 49.6 48.1 54.3 53.9 56.3 58.7 59.5 58.0 61.6 63.6 58.1 04/22/18 60.6 58.4 59.7 55.3 54.4 52.6 58.0 61.7 53.5 50.2 53.6 56.8 55.9 59.4 60.3 61.5 62.6 64.3 66.4 62.5 04/23/18 61.6 59.5 60.2 55.8 55.1 53.8 53.6 61.9 49.7 50.5 53.3 57.4 57.3 60.4 61.8 61.3 63.4 65.4 67.1 61.2 04/24/18 62.7 59.8 61.5 59.7 55.8 53.9 57.9 62.3 50.8 49.6 54.8 58.2 58.0 60.0 62.1 62.4 63.2 66.0 67.4 63.8 04/25/18 61.9 59.4 60.8 57.9 56.1 48.8 56.1 63.5 50.6 53.2 53.8 58.2 58.9 60.5 61.5 63.0 63.2 65.3 67.2 59.3 04/26/18 63.7 60.5 61.8 58.2 56.6 55.3 57.5 63.9 53.4 51.3 60.1 60.6 58.7 61.9 62.3 63.8 65.1 66.1 68.3 62.4 04/27/18 63.1 61.0 62.3 58.1 57.3 51.0 53.8 63.5 58.0 55.2 55.2 59.9 58.7 61.9 63.1 63.1 64.6 66.8 68.9 58.5 04/28/18 60.4 58.0 59.7 54.7 56.1 51.1 54.9 59.8 51.4 48.6 51.0 56.4 56.2 58.8 60.3 59.0 61.2 63.9 65.5 59.6 04/29/18 62.9 60.5 61.5 58.3 55.6 53.2 52.7 62.7 49.7 47.9 53.5 58.8 58.1 60.9 62.4 62.5 64.1 66.3 68.1 56.4 04/30/18 62.1 59.2 60.8 57.4 55.8 50.4 60.1 62.8 51.0 54.6 54.0 59.0 58.0 60.6 61.5 62.2 63.5 65.4 67.2 59.2

TABLE 2. CNEL VALUES FOR MAY 2018

RMS NUMBER

4 5 6 7 9 10 11 12 13 14 15 16 18 19 20 21 05/01/18 62.6 59.7 61.1 60.9 55.3 52.3 53.3 63.7 53.7 54.2 54.5 59.9 58.2 60.9 62.2 63.3 63.6 65.6 67.4 58.0 05/02/18 63.1 60.5 62.3 54.4 57.2 50.0 50.7 63.3 60.0 50.6 54.6 59.8 59.4 61.5 63.7 62.6 63.9 66.6 68.1 55.3 05/03/18 62.4 61.1 62.8 55.9 55.3 54.8 58.1 63.3 53.2 54.8 54.7 58.3 59.1 60.9 63.4 62.6 63.7 66.6 68.3 62.3 05/04/18 62.1 60.6 62.1 52.3 55.7 55.9 56.5 62.0 51.9 54.0 53.3 56.6 58.9 59.2 64.7 61.6 62.7 66.5 67.9 62.1 05/05/18 57.9 57.2 57.4 52.8 57.0 56.7 54.3 57.7 54.1 51.9 50.2 52.2 54.4 55.4 60.1 59.0 57.9 62.3 63.6 60.8 05/06/18 62.2 59.8 60.6 56.8 53.0 50.0 52.2 61.9 49.3 45.2 54.2 57.1 57.3 59.6 61.6 61.7 62.9 65.7 67.3 57.5 05/07/18 61.9 59.5 60.2 56.8 55.3 52.2 53.1 61.3 48.9 50.4 52.8 57.5 56.9 59.7 61.2 60.8 62.8 65.1 66.7 59.5 05/08/18 62.3 59.9 61.7 63.8 56.9 57.4 62.5 63.1 51.4 47.2 54.7 58.3 58.0 60.5 62.5 62.6 63.5 66.0 67.6 61.8 05/09/18 62.5 59.4 61.2 58.7 54.0 51.0 55.1 63.9 53.3 52.0 54.7 58.7 58.2 60.6 61.8 63.2 63.5 65.6 67.3 59.8 05/10/18 63.1 60.5 62.3 59.6 55.9 51.9 57.4 63.5 47.9 47.4 53.6 58.7 58.6 61.4 63.1 62.9 64.1 66.9 68.4 62.7 05/11/18 63.4 60.8 61.9 59.3 57.4 51.3 51.7 64.7 58.1 56.8 54.3 59.6 64.3 61.8 62.8 63.9 64.8 66.9 68.5 56.7 05/12/18 60.6 58.1 58.8 57.9 55.2 46.9 47.8 59.8 49.9 49.3 53.0 57.7 62.6 59.0 59.9 59.2 61.9 63.7 65.5 53.7 05/13/18 61.3 59.8 61.3 54.3 55.6 50.4 52.8 62.1 52.9 48.9 53.3 57.0 57.8 60.1 62.2 61.8 63.0 66.1 67.4 53.8 05/14/18 63.4 60.6 62.3 57.7 57.5 53.6 53.4 62.7 52.8 53.7 54.9 59.7 58.9 61.9 63.0 62.5 64.7 67.1 68.7 59.9 05/15/18 62.2 59.2 60.9 54.5 56.5 49.9 52.7 63.2 52.2 50.1 53.9 59.5 57.4 60.3 61.4 62.9 63.3 65.3 66.9 59.3 05/16/18 62.0 59.7 61.4 52.5 56.7 49.4 54.5 64.3 53.2 53.2 53.4 57.7 58.0 60.8 62.0 63.5 63.4 66.0 66.8 60.2 05/17/18 63.5 61.6 63.3 58.0 57.7 53.6 58.6 64.2 51.9 51.6 54.3 59.3 59.8 61.3 64.0 63.5 64.4 67.6 68.7 64.7 05/18/18 63.7 61.2 62.4 57.4 59.5 54.5 54.2 64.0 51.4 55.1 57.9 60.3 59.0 62.6 63.3 63.7 65.3 67.4 69.0 60.6 05/19/18 60.3 58.0 59.5 52.8 57.3 50.5 52.3 60.2 53.0 50.1 52.4 59.3 55.7 59.7 60.4 60.2 62.3 64.4 65.9 58.0 05/20/18 63.2 61.3 62.7 55.4 57.0 48.8 58.3 62.8 51.4 47.9 54.6 59.6 59.1 62.9 63.5 62.1 65.7 67.4 69.0 47.7 05/21/18 63.1 60.5 62.5 57.3 57.2 49.1 51.0 62.5 54.5 55.2 54.7 59.6 59.0 62.0 63.3 62.1 64.9 66.9 68.5 53.9 05/22/18 64.3 60.6 62.2 56.9 57.7 54.0 53.5 63.2 60.0 56.8 59.5 61.2 59.2 61.8 63.2 63.4 64.7 66.9 68.2 60.7 05/23/18 62.9 59.8 62.2 54.8 57.9 51.2 54.3 63.7 54.5 54.0 54.2 59.9 59.2 61.7 62.5 63.2 64.5 66.2 67.8 59.2 05/24/18 63.8 61.1 62.8 56.2 58.9 51.8 51.4 64.2 51.0 51.4 54.8 60.1 59.8 62.0 63.7 63.5 64.9 67.2 68.6 57.5 05/25/18 61.7 59.8 61.4 52.1 57.2 51.2 53.3 63.6 52.4 54.3 53.6 58.0 60.4 60.3 62.0 62.9 63.3 65.8 67.1 59.2 05/26/18 59.1 56.8 58.3 53.0 55.0 52.5 56.9 59.8 47.2 45.9 50.7 55.5 55.2 57.6 59.1 59.3 60.6 62.8 64.4 61.7 05/27/18 60.1 57.3 58.8 52.5 53.6 48.5 54.1 60.5 52.7 49.1 52.1 56.6 55.5 58.9 59.7 59.6 61.7 63.7 65.4 58.0 05/28/18 61.5 58.9 60.4 57.7 55.1 47.8 53.8 62.2 51.3 52.1 53.1 57.6 56.9 59.8 61.2 62.0 62.7 65.0 66.7 58.4 05/29/18 62.9 59.7 61.7 55.9 56.3 50.3 53.2 63.9 52.6 52.1 54.9 59.6 58.0 61.6 62.3 63.4 64.2 66.3 67.9 59.1 05/30/18 62.7 59.2 61.5 54.2 57.1 49.4 50.9 63.5 51.1 49.9 53.8 59.3 57.5 61.0 62.0 62.7 63.7 05/31/18 62.9 60.0 61.8 56.3 56.4 52.4 55.0 63.7 51.1 50.2 54.8 59.2 58.7 61.2 62.8 62.9 64.0 66.6 67.9 61.7

TABLE 3. CNEL VALUES FOR JUNE 2018

RMS NUMBER

Date	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19	20	21	22
06/01/18																				
06/02/18																				
06/03/18																				
06/04/18																				
06/05/18	62.4	60.0	62.3	54.0	57.5	51.0	54.2	63.2	63.0	54.1	54.2	58.7	58.7	60.9	62.9	62.7	64.0	66.3	67.8	59.6
06/06/18	63.7	60.7	61.9	56.3	57.5	51.5	54.0	63.2	61.9	48.1	54.9	60.0	59.0	61.8	63.3	62.7	64.9	66.9	68.4	58.9
06/07/18	62.7	60.4	62.5	58.5	56.8	53.9	57.7	63.2	63.2	50.4	55.3	58.8	58.7	61.3	63.1	64.6	64.3	66.5	68.2	63.5
06/08/18	62.3	59.6	61.1	58.1	54.8	54.5	54.4	63.0	63.4	50.0	53.7	58.0	57.3	60.5	61.9	62.8	63.5	65.7	67.5	57.7
06/09/18	60.1	57.9	59.6	57.0	53.8	50.7	55.7	59.6	63.7	46.8	52.5	56.2	55.2	58.8	59.7	59.7	61.5	63.9	65.5	61.2
06/10/18	60.8	58.8	60.4	56.1	55.1	54.6	54.0	61.9	63.7	49.1	52.4	57.4	56.6	60.0	61.1	61.3	63.1	65.1	66.7	60.3
06/11/18	62.4	60.8	62.1	58.2	58.1	49.2	54.0	62.2	60.2	51.1	54.0	57.5	59.8	59.7	63.8	61.9	63.1	67.0	68.1	58.6
06/12/18	62.1	59.5	60.9	57.3	55.9	53.2	58.0	62.7	52.9	49.3	56.4	58.8	57.7	60.2	61.8	62.6	63.4	65.8	67.4	60.8
06/13/18	62.4	60.4	61.4	57.7	55.7	53.8	57.6	62.7	45.2	50.5	53.9	57.8	58.9	59.9	62.6	62.4	63.3	66.5	67.7	62.7
06/14/18	62.3	60.2	61.6	57.8	55.7	54.1	58.2	63.4	51.5	51.2	54.1	58.5	58.2	60.7	62.8	62.9	63.8	66.5	67.9	63.4
06/15/18	63.6	62.7	63.3	58.3	58.5	54.7	59.2	62.9	52.3	51.2	54.9	60.0	61.4	62.0	71.9	62.1	64.6	67.8	69.2	64.6
06/16/18	62.4	62.0	60.0	55.9	59.4	48.7	51.5	60.9	55.3	49.6	53.4	59.1	61.4	59.8	61.5	60.3	62.1	65.5	67.0	57.8
06/17/18	62.9	60.5	62.3	53.9	59.7	38.7	49.5	62.9	49.1	43.4	54.5	59.3	58.8	61.7	63.4	62.3	64.4	66.9	68.4	53.9
06/18/18	62.2	59.9	61.5	53.5	55.9	52.1	55.3	61.8	50.0	48.3	54.0	58.2	57.9	60.9	62.3	63.1	63.9	66.0	67.6	59.4
06/19/18	62.0	60.0	61.7	58.9	56.8	53.1	54.6	63.7	50.6	53.0	53.4	58.9	58.0	61.1	62.4	63.2	64.0	66.0	67.8	59.4
06/20/18	62.3	59.6	62.2	59.3	55.8	54.5	58.3	63.9	48.1	53.6	54.6	58.5	58.2	60.9	63.0	63.1	64.0	66.3	68.0	63.7
06/21/18	63.4	61.3	63.3	59.0	53.9	52.6	54.3	64.2	61.5	48.7	54.7	58.6	60.0	61.2	64.6	63.8	64.5	67.5	69.1	59.6
06/22/18	62.2	60.0	60.9	57.4	54.4	46.6	50.8	63.7	53.7	47.2	53.1	58.1	57.8	60.7	62.3	63.6	63.7	66.5	67.9	55.3
06/23/18	59.9	57.8	59.2	52.5	55.5	51.2	52.3	59.8	53.2	46.2	50.8	56.8	55.7	59.0	60.1	58.8	61.8	64.8	65.7	57.9
06/24/18	61.6	59.2	61.6	56.1	60.9	54.9	57.4	63.0	54.6	46.8	52.4	57.9	57.6	60.6	62.2	62.4	63.5	66.2	67.7	60.0
06/25/18	63.2	60.5	61.9	57.4	56.5	49.6	54.4	61.9	48.2	47.8	55.0	59.5	58.4	61.1	63.2	61.5	64.5	67.1	68.5	60.3
06/26/18	62.4	59.9	61.7	58.1	56.6	52.7	53.5	63.2	52.1	54.7	54.0	58.9	57.9	60.6	62.4	62.8	63.7	66.3	67.8	60.6
06/27/18	63.4	61.0	62.1	58.3	56.1	53.1	54.4	63.4	54.3	53.6	54.9	58.5	59.1	61.1	63.2	63.1	64.2	67.6	69.1	61.3
06/28/18	62.9	59.4	60.8	56.3	56.7	49.4	55.2	63.7	49.2	48.9	54.6	59.0	57.3	61.1	62.0	63.0	64.0	66.4	67.7	59.9
06/29/18	63.2	60.8	61.9	58.5	59.1	51.0	54.7	63.7	58.8		55.2	59.0	58.9	61.7	63.0	63.2	64.6	67.0	68.5	60.3
06/30/18	60.8	58.8	59.6	53.6	56.5	58.8	54.9	60.2	53.6		50.3	56.4	57.1	59.8	60.9	59.8	62.3	64.8	66.0	62.2
AVERAGE	62.3	60.1	61.4	57.1	56.9	53.1	56.3	62.6	59.1	50.5	54.0	58.3	58.3	60.6	63.4	62.3	63.6	66.2	67.7	61.4
NO. DAYS	30	30	30	30	30	30	30	30	30	28	30	30	30	30	30	30	30	30	30	30
QTR. AVG.	62.2	59.8	61.3	57.2	57.0	54.2	56.0	62.5	56.1	51.9	54.2	58.3	58.4	60.5	62.7	62.1	63.4	65.9	67.5	60.9

NO. DAYS 91 91 91 91 91 91 91 90 91 89 91 91 91 91 91 91 91 91 91 91

TABLE 4. AVERAGE CNEL VALUES

Site	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	4 Quarter
No.	2017	2017	2018	2018	Average
1	61.6	60.6	61.4	62.2	61.5
2	59.6	58.8	59.2	59.8	59.4
3	60.8	59.9	60.4	61.3	60.6
4	56.0	57.1	57.3	57.2	56.9
5	55.8	58.0	57.9	57.0	57.3
6	53.0	54.5	55.6	54.2	54.4
7	56.1	55.2	55.2	56.0	55.6
9	62.1	61.0	61.7	62.5	61.8
10	54.1	52.8	52.4	56.1	54.1
11	51.6	51.4	52.7	51.9	51.9
12	53.4	53.3	54.2	54.2	53.8
13	57.5	56.3	57.4	58.3	57.4
14	57.3	56.5	57.4	58.4	57.5
15	59.8	58.5	59.5	60.5	59.6
16	61.9	61.1	61.7	62.7	61.9
18	61.8	60.6	61.5	62.1	61.6
19	62.8	61.6	62.3	63.4	62.6
20	65.4	64.5	65.0	65.9	65.2
21	67.0	65.8	66.5	67.5	66.7
22	58.7	59.9	60.6	60.9	60.1

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT DAY EVENING NIGHT TOTAL	AS EMI DEP 14 6 0 20		AS B7	EFFECT 377 ARR 0 0 0 0	AS CF		to AS CR DEP 0 0 0	-	2 DAY AS B73 DEP 40 0 0 40	
DAY EVENING NIGHT TOTAL	AS B73 DEP 19 0 0	SCHEI 379 ARR 12 7 0 19	AS A3	EFFECT 20 ARR 0 0 0 0	US B7		to US B7 DEP 0 0 0	373	US CR DEP 0 0 0	ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	US CR. DEP 0 0 0	SCHEI J7 ARR 0 0 0 0	US CF		AA ME	4/1/18 080 ARR 0 0 0		4/2/18 7373 ARR 0 0 0	WN B7 DEP 0 0 0	7379 ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	WN B7 DEP 270 81 0 351	SCHEI 377 ARR 267 84 0 351		EFFECT 7378 ARR 1 7 0 8	UA A3	4/1/18 220 ARR 0 1 0	to UA A3 DEP 6 0 0		UA B73 DEP 0 6 0 6	378 ARR 0 6 0 6
DAY EVENING NIGHT TOTAL	UA B75 DEP 0 0 0		UA RJ	EFFECT ARR 33 7 0 40	UA CF	4/1/18 RJ7 ARR 1 0 0	to FE A30 DEP 0 0 0	4/2/18 00 ARR 0 0 0 0	FE A3 ² DEP 2 9 0 11	10 ARR 7 0 4 11
DAY EVENING NIGHT TOTAL		SCHED 300 ARR 4 0 4	UPS B		DL E1	4/1/18 75 ARR 7 7 7 0 14	DL CR		DL CR DEP 13 0 0	
DAY EVENING NIGHT TOTAL	DL CR. DEP 6 0 0		DULE IN B6 A32 DEP 0 7 0 7	EFFECT 20 ARR 0 7 0 7	FROM FW2 A DEP 0 0 0	4/1/18 A319 ARR 0 0 0 0	to	4/2/18	TOTAL DEP 450 115 7 572	S ARR 384 180 8 572

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT DAY EVENING NIGHT TOTAL	AS EMB17	ARR DEP 4 0 0 0	_	FROM AS CR. DEP 0 0 0 0	4/3/18 J7 ARR 0 0 0 0	to AS CRJ DEP 0 0 0	4/7/18 ARR 0 0 0 0	5 DAYS AS B73 DEP 40 0 0 40	
DAY EVENING NIGHT TOTAL	AS B7379	RR DEP 2 0 0 0	_	FROM US B73 DEP 0 0 0	4/3/18 872 ARR 0 0 0	to US B73 DEP 0 0 0	4/7/18 73 ARR 0 0 0	US CR. DEP 0 0 0	J ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	US CRJ7	0 6	_	FROM AA MD DEP 0 0 0 0	4/3/18 80 ARR 0 0 0	to WN B73 DEP 0 0 0	4/7/18 373 ARR 0 0 0	WN B73 DEP 0 0 0	379 ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	WN B7377 DEP AI 270 26 81 8 ² 0 0	RR DEP 67 8 4 0	_	FROM UA A32 DEP 0 1 0	4/3/18 20 ARR 0 1 0	to UA A31 DEP 6 0 0	4/7/18 9 ARR 0 6 0	UA B73 DEP 0 6 0	678 ARR 0 6 0 6
DAY EVENING NIGHT TOTAL	UA B757	0 0		FROM UA CRO DEP 1 0 1	4/3/18 J7 ARR 1 0 0	to FE A300 DEP 0 0 0	4/7/18 0 ARR 0 0 0 0	FE A31 DEP 2 9 0	0 ARR 7 0 4 11
DAY EVENING NIGHT TOTAL	UPS A300	RR DEP 0 0 0	_	FROM DL E17 DEP 14 0 0	4/3/18 75 ARR 7 7 0 14	to DL CRJ DEP 0 0 0	4/7/18 ARR 0 0 0 0	DL CRJ DEP 0 0 0	ARR 0 0 0 0 0
DAY EVENING NIGHT TOTAL	DL CRJ9	7 0		FROM FW2 A3 DEP 0 0 0	4/3/18 319 ARR 0 0 0	to	4/7/18	TOTAL DEP 444 115 6 565	S ARR 384 173 8 565

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT DAY EVENING NIGHT TOTAL	AS EM DEP 14 6 0 20		DULE IN AS B7 DEP 0 0 0	EFFECT 377 ARR 0 0 0 0	FROM AS CF DEP 0 0 0 0	4/8/18 RJ7 ARR 0 0 0	to AS CR DEP 0 0 0	5/1/18 J ARR 0 0 0 0	24 DA AS B73 DEP 40 0 0 40	
DAY EVENING NIGHT TOTAL	AS B73 DEP 19 0 0		DULE IN AS A3. DEP 0 0 0 0	EFFECT 20 ARR 0 0 0 0	FROM US B7 DEP 0 0 0	4/8/18 372 ARR 0 0 0	to US B73 DEP 0 0 0	5/1/18 373 ARR 0 0 0	US CR DEP 0 0 0	J ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	US CR DEP 0 0 0		DULE IN US CF DEP 21 0 6 27	EFFECT RJ9 ARR 20 7 0 27	FROM AA ME DEP 0 0 0 0	4/8/18 080 ARR 0 0 0	to WN B7 DEP 0 0 0	5/1/18 373 ARR 0 0 0	WN B7 DEP 7 0 0 7	379 ARR 7 0 0 7
DAY EVENING NIGHT TOTAL	WN B7 DEP 282 63 0 345		DULE IN WN B7 DEP 14 5 0 19	EFFECT 7378 ARR 7 12 0 19	FROM UA A3 DEP 7 0 0 7	4/8/18 220 ARR 0 7 0 7	to UA A3 DEP 7 0 0	5/1/18 19 ARR 0 7 0 7	UA B73 DEP 5 0 0	378 ARR 0 5 0 5
DAY EVENING NIGHT TOTAL	UA B75 DEP 0 0 0 0		DULE IN UA RJ DEP 32 0 0 32	EFFECT ARR 32 0 0 32	FROM UA CF DEP 1 0 0	4/8/18 RJ7 ARR 0 1 0	to FE A30 DEP 0 0 0	5/1/18 00 ARR 0 0 0 0	FE A31 DEP 2 9 0	10 ARR 7 0 4 11
DAY EVENING NIGHT TOTAL	UPS AS DEP 3 5 0	300	UPS B		DL E1	4/8/18 75 ARR 7 7 7 0 14	to DL CR DEP 0 0 0		DL CR DEP 0 0 0	
DAY EVENING NIGHT TOTAL	DL CR. DEP 6 0 0		DULE IN B6 A32 DEP 0 7 0 7	EFFECT 20 ARR 0 7 0 7	FROM FW2 A DEP 0 0 0	4/8/18 A319 ARR 0 0 0 0	to	5/1/18	TOTAL DEP 474 95 6 575	ARR 383 184 8 575

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT DAY EVENING NIGHT TOTAL	AS EM DEP 14 6 0 20		OULE IN AS B7 DEP 0 0 0	EFFECT 377 ARR 0 0 0 0	FROM AS CF DEP 0 0 0	5/2/18 RJ7 ARR 0 0 0 0	to AS CRJ DEP 0 0 0		30 DAY AS B73 DEP 40 0 0 40	
DAY EVENING NIGHT TOTAL	AS B73 DEP 19 0 0	_	DULE IN AS A3 DEP 0 0 0 0	EFFECT 20 ARR 0 0 0 0	FROM US B7 DEP 0 0 0	5/2/18 372 ARR 0 0 0	to US B73 DEP 0 0 0	5/31/18 73 ARR 0 0 0	US CR. DEP 0 0 0	J ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	US CR DEP 0 0 0		DULE IN US CR DEP 21 0 6 27	EFFECT RJ9 ARR 20 7 0 27	FROM AA ME DEP 0 0 0 0	5/2/18 080 ARR 0 0 0	to WN B73 DEP 0 0 0	5/31/18 373 ARR 0 0 0	WN B73 DEP 7 0 0 7	379 ARR 7 0 0 7
DAY EVENING NIGHT TOTAL	WN B7 DEP 282 63 0 345	_	DULE IN WN B7 DEP 14 5 0 19	EFFECT 7378 ARR 7 12 0 19	FROM UA A3 DEP 6 0 0	5/2/18 20 ARR 0 6 0 6	to UA A31 DEP 8 0 0	5/31/18 9 ARR 0 8 0 8	UA B73 DEP 0 6 0	578 ARR 0 6 0 6
DAY EVENING NIGHT TOTAL	UA B75 DEP 0 0 0 0		DULE IN UA RJ DEP 39 0 0 0 39	EFFECT ARR 39 0 0 39	FROM UA CF DEP 1 0 1	5/2/18 RJ7 ARR 1 0 0	to FE A30 DEP 0 0 0	5/31/18 0 ARR 0 0 0 0	FE A31 DEP 2 9 0	0 ARR 7 0 4 11
DAY EVENING NIGHT TOTAL	UPS A DEP 3 5 0	300	DULE IN UPS B DEP 0 0 0 0		FROM DL E1 DEP 14 0 0	5/2/18 75 ARR 7 7 7 0	to DL CRJ DEP 0 0 0	5/31/18 ARR 0 0 0 0	DL CR. DEP 0 0 0	J7 ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	DL CR DEP 6 0 0		DULE IN B6 A32 DEP 0 7 0 7	EFFECT 20 ARR 0 7 0 7	FROM FW2 A DEP 0 0 0	5/2/18 x319 ARR 0 0 0	to	5/31/18	TOTAL DEP 476 101 6 583	S ARR 391 184 8 583

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT	AS EME DEP		ULE IN E AS B73 DEP		FROM AS CRJ DEP	6/1/18 7 ARR	to AS CRJ DEP	6/2/18 ARR	2 DAYS AS B73 DEP	
DAY EVENING NIGHT TOTAL	14 6 0 20	14 6 0 20	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	40 0 0 40	12 28 0 40
	AS B73		ULE IN E		FROM US B73	6/1/18 72	to US B73	6/2/18 73	US CRJ	
DAY	DEP 19	ARR 12	DEP 0	ARR 0	DEP 0	ARR 0	DEP 0	ARR 0	DEP 0	ARR 0
EVENING NIGHT	0 0	7 0	0	0 0	0 0	0 0	0 0	0	0 0	0 0
TOTAL	19	19	0	0	0	0	0	0	0	0
	US CRJ		ULE IN E US CRJ		FROM AA MD8	6/1/18 30	to WN B73	6/2/18 73	WN B73	379
DAY	DEP 0	ARR 0	DEP 21	ARR 20	DEP 0	ARR 0	DEP 0	ARR 0	DEP 7	ARR 7
EVENING	0	0	0	7	0	0	0	0	0	0
NIGHT	0	0	6	0	0	0	0	0	0	0
TOTAL	0	0	27	27	0	0	0	0	7	7
	WN B73		ULE IN E WN B73		FROM UA A32	6/1/18	to UA A319	6/2/18	UA B73	70
	DEP	ARR	DEP	ARR	DEP	u ARR	DEP	ARR	DEP	70 ARR
DAY	282	255	14	7	6	0	8	0	0	0
EVENING NIGHT	63 0	90 0	5 0	12 0	0 0	6 0	0	8	6 0	6 0
TOTAL	345	345	19	19	6	6	8	8	6	6
		SCHED	ULE IN E	FFFCT I	-ROM	6/1/18	to	6/2/18		
	UA B75		UA RJ		UA CRJ		FE A300		FE A310)
DAY	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY EVENING	0 0	0	39 0	39 0	1 0	1 0	0	0	2 9	7 0
NIGHT	0	0	0	0	Ö	0	0	0	0	4
TOTAL	0	0	39	39	1	1	0	0	11	11
		SCHED	ULE IN E	FFECT I	FROM	6/1/18	to	6/2/18		
	UPS A3		UPS B7	-	DL E17		DL CRJ	A DD	DL CRJ	
DAY	DEP 3	ARR 4	DEP 0	ARR 0	DEP 14	ARR 7	DEP 0	ARR 0	DEP 0	ARR 0
EVENING	5	0	0	0	0	7	0	0	0	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	14	14	0	0	0	0
			ULE IN E			6/1/18	to	6/2/18		_
	DL CRJ	9 ARR	B6 A320 DEP) ARR	FW2 A3 DEP	19 ARR			TOTALS DEP	S ARR
DAY	6 6	6	0	0	0	0			476	391
EVENING	0	0	7	7	0	0			101	184
NIGHT TOTAL	0 6	0 6	0 7	0 7	0	0			6 583	8 583
IOIAL	U	J	1	1	U	J			JUJ	503

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT	AS EME	8175 ARR	ULE IN E AS B73 DEP	77 ARR	AS CR. DEP	ARR	to AS CRJ DEP	ARR	4 DAYS AS B73 DEP	78 ARR
DAY EVENING NIGHT TOTAL	26 6 0 32	26 6 0 32	0 2 0 2	0 2 0 2	0 0 0 0	0 0 0	0 0 0 0	0 0 0	6 0 0 6	1 5 0 6
	AS B73		ULE IN E AS A32		FROM US B73	6/3/18 372	to US B73	6/6/18 73	US CRJ	I
DAY EVENING NIGHT	DEP 19 0 0	ARR 12 7 0	DEP 0 0 0	ARR 0 0 0	DEP 0 0 0	ARR 0 0 0	DEP 0 0 0	ARR 0 0 0	DEP 0 0 0	ARR 0 0 0
TOTAL	19	19	0	0	0	0	0	0	0	0
	US CRJ	7	ULE IN E	J9	AA MD		to WN B73		WN B73	-
DAY	DEP 0	ARR 0	DEP 21	ARR 20	DEP 0	ARR 0	DEP 0	ARR 0	DEP 7	ARR 7
EVENING NIGHT	0	0 0	0 6	7 0	0 0	0 0	0 0	0	0	0 0
TOTAL	0	0	27	27	0	0	0	0	7	7
		SCHED	ULE IN E	FFECT	FROM	6/3/18	to	6/6/18		
	WN B73 DEP	377 ARR	WN B73 DEP	378 ARR	UA A32 DEP	:0 ARR	UA A31	9 ARR	UA B73 DEP	78 ARR
DAY	282	255	14	7	6	0	8	0	0	0
EVENING NIGHT	63	90	5 0	12 0	0	6	0	8	6 0	6
TOTAL	0 345	0 345	19	19	0 6	0 6	0 8	8	6	0 6
		SCHED	ULE IN E	FFECT	FROM	6/3/18	to	6/6/18		
	UA B75	7 ARR	UA RJ DEP	ARR	UA CR.	J7 ARR	FE A300 DEP) ARR	FE A310 DEP	0 ARR
DAY	0 0	0	39	39	1	1	0 0	0	2	7
EVENING	0	0	0	0	0	0	0	0	9	0
NIGHT TOTAL	0 0	0 0	0 39	0 39	0 1	0 1	0 0	0 0	0 11	4 11
		SCHED	ULE IN E	FFFCT	FROM	6/3/18	to	6/6/18		
	UPS A3	00	UPS B7	57	DL E17	5	DL CRJ		DL CRJ	-
DAY	DEP 3	ARR 4	DEP 0	ARR 0	DEP 20	ARR 13	DEP 0	ARR 0	DEP 0	ARR 0
EVENING	5	0	0	0	0	7	0	0	0	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	20	20	0	0	0	0
	DI ODI		ULE IN E			6/3/18	to	6/6/18	TOTAL	•
	DL CRJ	9 ARR	B6 A320 DEP	ں ARR	FW2 A3 DEP	319 ARR			TOTAL:	S ARR
DAY	0	0	0	0	0	0			454	392
EVENING	0	0	7	7	0	0			103	163
NIGHT TOTAL	0 0	0	0 7	0 7	0 0	0 0			6 563	8 563

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

AIRCRAFT	AS EME	3175 ARR	OULE IN E AS B73 DEP	377 ARR	AS CR. DEP	ARR	to AS CRJ DEP	ARR	1 DAYS AS B73 DEP	378 ARR
DAY EVENING NIGHT TOTAL	26 6 0 32	26 6 0 32	0 2 0 2	0 2 0 2	0 0 0 0	0 0 0 0	0 0 0	0 0 0	6 0 0 6	1 5 0 6
DAY EVENING	AS B73 DEP 19 0		OULE IN E AS A32 DEP 0 0		FROM US B73 DEP 0 0	6/7/18 372 ARR 0 0	to US B73 DEP 0 0	6/7/18 73 ARR 0	US CR. DEP 0 0	J ARR 0 0
NIGHT TOTAL	0 19	0 19	0	0	0	0	0	0	0	0
DAY EVENING NIGHT TOTAL	US CRJ DEP 0 0 0		ULE IN E US CR. DEP 21 0 6 27		FROM AA MD DEP 0 0 0 0	6/7/18 80 ARR 0 0 0	to WN B73 DEP 0 0 0	6/7/18 373 ARR 0 0 0	WN B73 DEP 7 0 0	379 ARR 7 0 0 7
DAY EVENING NIGHT TOTAL	WN B73 DEP 294 67 0 361		WN B75 DEP 9 0 0 9		FROM UA A32 DEP 6 0 0 6	6/7/18 20 ARR 0 6 0 6	to UA A31 DEP 8 0 0	6/7/18 9 ARR 0 8 0 8	UA B73 DEP 0 6 0 6	378 ARR 0 6 0 6
DAY EVENING NIGHT TOTAL	UA B75 DEP 0 0 0 0	_	ULE IN E UA RJ DEP 39 0 0 0	ARR 39 0 0 0 39	FROM UA CR DEP 1 0 0	6/7/18 J7 ARR 1 0 0	to FE A300 DEP 0 0 0	6/7/18 0 ARR 0 0 0 0	FE A31 DEP 2 9 0	0 ARR 7 0 4 11
DAY EVENING NIGHT TOTAL	UPS A3 DEP 3 5 0		ULE IN E UPS B7 DEP 0 0 0		FROM DL E17 DEP 20 0 0 20	6/7/18 75 ARR 13 7 0 20	to DL CRJ DEP 0 0 0	6/7/18 ARR 0 0 0 0	DL CR. DEP 0 0 0	J7 ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	DL CRJ DEP 0 0 0		DULE IN B B6 A32 DEP 0 7 0 7		FROM FW2 A DEP 0 0 0 0	6/7/18 319 ARR 0 0 0	to	6/7/18	TOTAL DEP 461 102 6 569	S ARR 402 159 8 569

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE SECOND QUARTER 2018

		001155	=	FFFOT	FDOM	0/0/40		0/00/40	00 DA	\ <u>'</u> 0
AIRCRAFT	AS EME		OLE IN E AS B73	EFFECT	FROM AS CR	6/8/18 17	to AS CRJ		23 DA AS B73	
711101011	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	26	26	0	0	0	0	0	0	6	1
EVENING	6	6	2	2	0	0	0	0	0	5
NIGHT TOTAL	0 32	0 32	0 2	0 2	0 0	0 0	0 0	0	0 6	0 6
TOTAL	02	0Z	_	_	O	O	O	Ü	Ü	Ü
		_	_	EFFECT	_	6/8/18	to	6/30/18		_
	AS B73	79 ARR	AS A32 DEP	:0 ARR	US B73 DEP	372 ARR	US B73	73 ARR	US CR.	J ARR
DAY	19	12	0 0	0 0	0 0	0	0 0	0	0 DEP	0 0
EVENING	0	7	0	0	0	Ö	Ö	Ō	0	Ö
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	19	19	0	0	0	0	0	0	0	0
		SCHED	ULE IN E	EFFECT	FROM	6/8/18	to	6/30/18		
	US CRJ		US CR.		AA MD		WN B73		WN B73	-
DAY	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY EVENING	0 0	0	21 0	20 7	0 0	0 0	0 0	0	21 0	14 7
NIGHT	0	0	6	0	Ö	Ö	Ö	0	0	0
TOTAL	0	0	27	27	0	0	0	0	21	21
		SCHED	III E IN E	EFFECT	FROM	6/8/18	to	6/30/18		
	WN B73		WN B7		UA A32		UA A31		UA B73	78
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	294	270	9	2	0	0	0	0	6	0
EVENING NIGHT	67 0	91 0	0 0	7 0	0 0	0 0	0 0	0	6 0	12 0
TOTAL	361	361	9	9	0	0	0	0	12	12
		COLIED	=	FEEGT	EDOM.	0/0/40	4-	0/00/40		
	UA B75	_	UA RJ	EFFECT	FROM UA CR	6/8/18 .17	to FE A300	6/30/18 1	FE A31	0
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	18	19	0	0	0	0	2	7
EVENING	0	0	1	0	0	0	0	0	9	0
NIGHT TOTAL	0	0	0 19	0 19	0	0	0	0	0 11	4 11
TOTAL	Ü	Ü	10	10	Ü	Ü	Ü	Ü		
	1100 40			EFFECT		6/8/18	to	6/30/18	DI ODI	-
	UPS A3 DEP	ARR	UPS B7 DEP	ARR	DL E17 DEP	ARR	DL CRJ DEP	ARR	DL CRJ DEP	ARR
DAY	3	4	0	0	20	13	0	0	0	0
EVENING	5	0	0	0	0	7	0	0	0	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	20	20	0	0	0	0
		SCHED	ULE IN E	EFFECT	FROM	6/8/18	to	6/30/18		
	DL CRJ		B6 A32		FW2 A				TOTAL	
DAY	DEP	ARR	DEP	ARR	DEP	ARR			DEP	ARR
DAY EVENING	0 0	0	0 7	0 7	0 0	0 0			445 103	388 158
NIGHT	0	0	0	0	0	0			6	8
TOTAL	0	0	7	7	0	0			554	554

TABLE 5. (CONTINUED)

SECOND QUARTER 2018

PERIOD TOTALS FOR AIR CARRIERS AND AIR TAXIS

AIR CARRIERS

NIGHT

TOTAL

	<u>DEP</u>	<u>ARR</u>	
DAY	5487	4493	
EVE	1001	1969	
NIGHT	78	104	
TOTAL	6566	6566	_
AIR TAXIS			
	<u>DEP</u>	<u>ARR</u>	
DAY	730	730	
EVE	313	313	

0

1043

1043

AIR CARRIERS AND AIR TAXIS

	<u>DEP</u>	<u>ARR</u>
DAY	6217	5223
EVE	1314	2282
NIGHT	78	104
TOTAL	7609	7609

VI. INCOMPATIBLE LAND USE

The contours shown in Figures 1 and 2 were digitized and overlaid on a digital land use map of the area around the Airport. The total areas enclosed by the 65 and 70 dB CNEL contours were 584.4 and 235.5 acres, respectively. The areas of incompatible land uses enclosed by the contours were then computed. The incompatible land use areas were 8.61 acres within the 65 dB contour of which 0.37 acres were also within the 70 dB contour.

It should be noted that the above incompatible land areas do not include the soundproofed schools in the vicinity of the Airport (the Luther Burbank Middle School, St. Patrick and Glenwood Schools). The above incompatible land use areas also do not include those residences to which the Airport has acquired avigation easements. Within the 65 dB contour, the Airport has acquired avigation easements, through its ongoing residential sound insulation program, to 240 parcels of land. Those 240 parcels total 36.59 acres. One of the 240 parcels is also located within the 70 dB contour. Within the 65 dB contour, the Airport has also acquired avigation easements, under the Court of Appeal decision in Baker v. Burbank-Glendale-Pasadena Airport Authority, 220 Cal. App. 3d 1602 (1990), to 60 parcels of land. For 48 of the 60 parcels, the Authority has acquired avigation easements both through Baker and through its ongoing sound insulation program. Those 48 parcels are included in the total number of sound insulation program avigation easements set forth above. The 7 remaining Baker easement parcels total 0.89 acres.

It should be noted that the Airport Authority has made repeated attempts over the past several years to acoustically treat and obtain avigation easements at 57 single family residential parcels, totaling approximately 8.08 acres of the incompatible land use area within the 65 dB contour. Owners of these parcels have either refused to respond to notices regarding the sound insulation program, have withdrawn from the program, or own properties with major building code deficiencies that prevent them from participating.

The estimated numbers of incompatible residences are 73 within the 65 dB contour, of which 2 are also within the 70 dB contour. The estimated numbers of people residing within the 65 and 70 dB CNEL contours are 197 and 5, respectively.

REFERENCES

- California Department of Transportation, Division of Aeronautics, "Noise Standards", California Code of Regulations, Title 21, Chapter 2.5, Subchapter 6.
- 2. L-30488, Department of Transportation, State of California, 27 June 1984.
- "Quarterly Noise Monitoring at Hollywood Burbank Airport, Third Quarter 2017",
 AAAI Report 1514.
- "Quarterly Noise Monitoring at Hollywood Burbank Airport, Fourth Quarter 2017",
 AAAI Report 1515.
- "Quarterly Noise Monitoring at Hollywood Burbank Airport, First Quarter 2018",
 AAAI Report 1530.

APPENDIX A NOISE MONITOR INSTRUMENTATION

APPENDIX A NOISE MONITOR INSTRUMENTATION

The permanent noise monitor system, manufactured by Bruel & Kjaer, consists of 20 noise monitoring terminals (NMT) connected to a central site by DSL or wireless connections. The system block diagram showing the major elements is shown in Figure A-1. The electrical signal generated by the microphone/preamplifier assembly at each site is processed and saved locally in the B & K sound level meter. The signal is passed through an A-weighting filter and is then detected and converted to a digital level signal in decibels with a resolution of 0.1 dB.

The stored sound level data at each site is dumped once every 24-hour period via wireless or DSL connection to the central site. The data received by the central site are processed by the ANOMS computer software. According to preset parameters, the noise is separated into two categories--aircraft noise and community noise. Each event attributed to an aircraft is saved in a noise event file. Computations are made of hourly noise level, community noise equivalent level, runway use, and other parameters. A wide variety of data presentations is available by exercising a number of routines provided by B & K, as well as special-purpose routines that can be generated by the user.

The locations of the remote sites (shown in Figure 3) are listed by latitude and longitude in Table A-1.

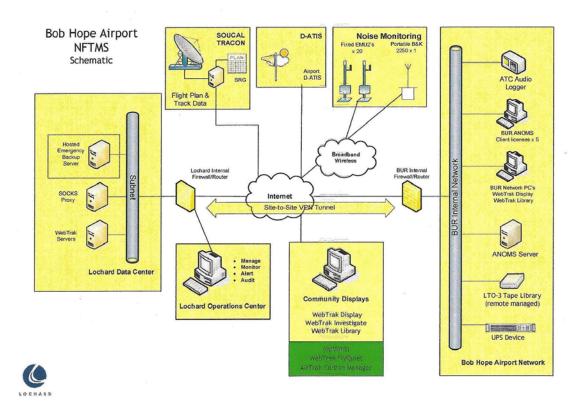


Figure A-1. Permanent Noise Monitor System Schematic

TABLE A-1
NOISE MONITOR SITE LOCATIONS

NMT	Latitude	Longitude
1	34.188424	-118.358983
2	34.184296	-118.347330
3	34.175731	-118.354197
4	34.212022	-118.364391
5	34.215261	-118.357381
6	34.220705	-118.365214
7	34.224979	-118.363989
9	34.198871	-118.398889
10	34.195336	-118.342392
11	34.197321	-118.340376
12	34.190175	-118.365404
13	34.181303	-118.345270
14	34.178786	-118.347134
15	34.173922	-118.363157
16	34.181185	-118.350949
18	34.196899	-118.389014
19	34.181277	-118.357866
20	34.188378	-118.351878
21	34.186700	-118.354939
22	34.217035	-118.361725

APPENDIX B
CALIBRATION

APPENDIX B CALIBRATION

The system was calibrated during setup using a Bruel and Kjaer acoustic calibrator. Acoustic calibrations are performed annually. Electrical calibrations are performed automatically four times per 24-hour day. Figure B-1 shows the calibration summary for January 2013 and Figure B-2 shows the detailed electrical calibration report for Noise Monitor Site 1.



Devices Report

RMT Calibration Results

Bob Hope Airport

Start Date: 04-Jan-2013 End Date: 31-Jan-2013

Monitor Location: 1 - 1, (Fixed)

Seven Day Period Commencing: Friday January 04, 2013

Calibrated with Sound Calibrator: Never

Number of Calibrations: 27

Average adjustment for this RMT over this period: 0.10 dB

Date Time	Expected Result	Value Measured	Calibration Error
04-Jan-2013 0:00	87.1	87.2	1.0
04-Jan-2013 6:00	87.1	87.2	0.1
04-Jan-2013 12:00	87.1	87.2	0.1
04-Jan-2013 18:00	87.1	87.2	0.1
05-Jan-2013 0:00	87.1	87.2	0.1
05-Jan-2013 6:00	87.1	87.2	0.1
05-Jan-2013 12:00	87.1	87.2	0.1
05-Jan-2013 18:00	87.1	87.2	0.1
06-Jan-2013 0:00	87.1	87.2	0.1
06-Jan-2013 6:00	87.1	87.2	0.1
06-Jan-2013 12:00	87.1	87.2	0.1
06-Jan-2013 18:00	87.1	87.2	0.1
07-Jan-2013 0:00	87.1	87.2	0.1
07-Jan-2013 6:00	87.1	87.2	0.1
07-Jan-2013 12:00	87.1	87.2	0.1
07-Jan-2013 18:00	87.1	87.2	0.1
08-Jan-2013 0:00	87.1	87.2	0.1
08-Jan-2013 6:00	87.1	87.2	0.1
08-Jan-2013 12:00	87.1	87.3	0.2
08-Jan-2013 18:00	87.1	87.2	0.1
09-Jan-2013 0:00	87.1	87.2	0.1
09-Jan-2013 6:00	87.1	87.2	0.1
09-Jan-2013 12:00	87.1	87.2	0.1
09-Jan-2013 18:00	87.1	87.2	0.1
10-Jan-2013 0:00	87.1	87.2	0.1
10-Jan-2013 6:00	87.1	87.2	0.1
10-Jan-2013 12:00	87.1	87.2	0.1

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Devices Report

RMT Calibration Results

Bob Hope Airport

Start Date: 04-Jan-2013

End Date: 31-Jan-2013

М	onitor Location	04-Jan-2013	11-Jan-2013	18-Jan-2013	25-Jan-2013
1	1	0.1	0.1	0.1	0.1
2	2	0.4	0.4	0.3	0.3
3	3	0.5	0.0	0.0	0.0
4	4	0.3	0.3	0.3	0.3
5	#5	0,2	0,2	0.2	0.2
6	6	0.0	0.0	0.0	0.0
7	7	0.3	0.3	0.3	0.3
9	9	0.2	0.2	0.2	0.2
10	10	0.2	0.2	0.2	0.2
11	11	0.6	0.0	0.0	0.0
12	12	0.3	0.3	0.3	0.3
13	13	0.0	0.0	0.0	0.0
14	14	0.0	0.0	0.0	0.0
15	15	0.0	0.0	0.0	0.0
16	16	0.4	0.4	0.4	0.4
18	18	0.0	0.0	0.1	0.1
19	19	0.0	0.0	0.0	0.0
20	20	0.1	0.0	0.1	0.1
21	21	0.0	0.0	0.0	0.0
22	22	0.0	0.0	0.0	0.0

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