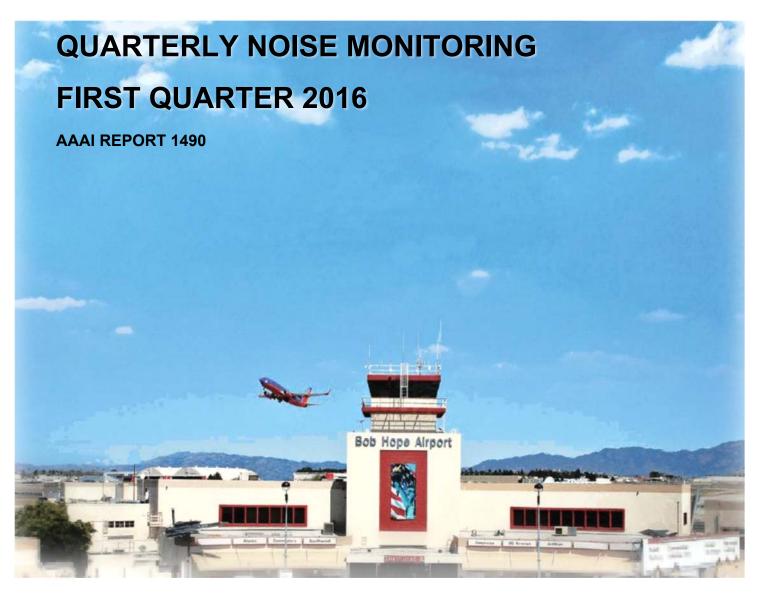
BOB HOPE AIRPORT





MAY 2016





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QUARTERLY NOISE MONITORING AT BOB HOPE AIRPORT FIRST QUARTER 2016

MAY 2016

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QUARTERLY NOISE MONITORING AT BOB HOPE AIRPORT FIRST QUARTER 2016

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 Bob Hope 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 boundary¹. The airport is required to provide, each quarter, an updated annual noise impact contour based on measurement data over the four preceding quarters.

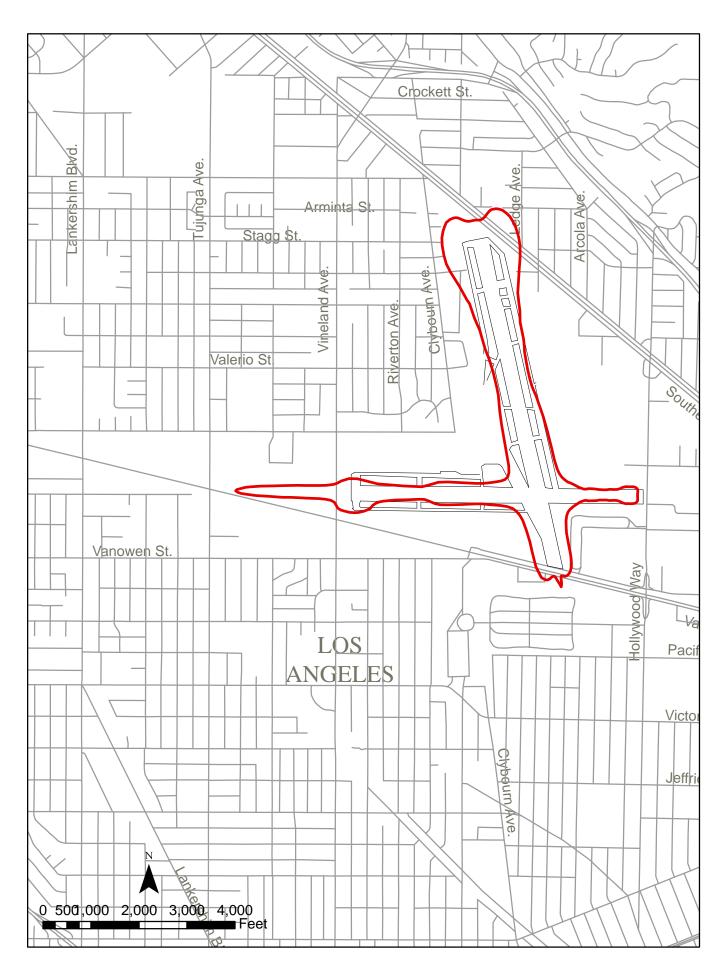
A permanent noise monitoring system became operational in April 1980 and, with brief interruption for system expansion, maintenance, and program changes, has been operational since that time. Of the original nine noise monitor sites, eight have remained unchanged since 1980. The monitor at site 8 was 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 Bob Hope 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.

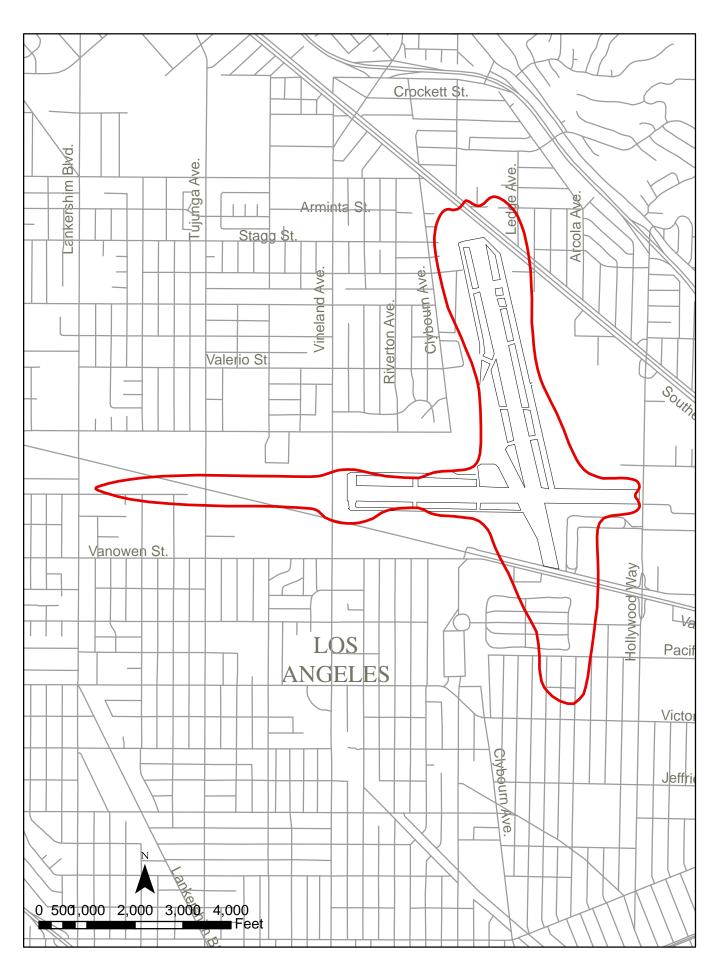
This report describes the data acquired by the monitoring system during the first quarter of 2016. Noise impact boundaries for 65 dB and 70 dB are shown based on these measurements and measurements obtained during the second, third and fourth quarter 2015 reported in

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



BOB HOPE AIRPORT 70 dB CNEL CONTOUR 1st Quarter 2016



BOB HOPE AIRPORT 65 dB CNEL CONTOUR 1st Quarter 2016

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.

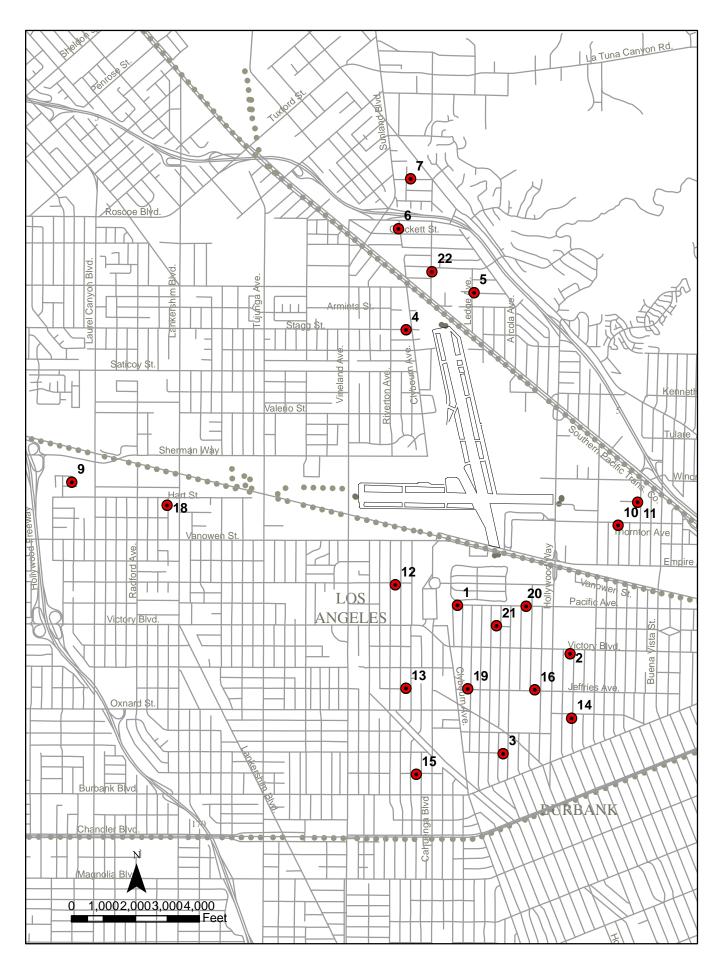


FIGURE 3 - BOB HOPE AIRPORT NOISE MONITOR LOCATIONS

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 JANUARY 2016

RMS NUMBER

Date	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19	20	21	22
01/01/16	E0 0		57	50 Z	5 2.2	50 A	5 2.7	56 1	40.1	47 O	51 2	52.2	E2 E	55 G	E0 2	57 5	E0 2	61 0	63.3	57 2
01/01/16 01/02/16																			64.4	
01/02/16																			66.2	
01/03/16																			65.9	
01/04/16																			67.1	
01/03/10																			65.3	
01/00/16							-	-	-	-	-					-	-		64.7	
01/07/10	-																		64.4	
01/00/16																			63.5	
01/10/16																			65.1	
01/11/16																			66.2	
01/12/16																			63.9	
01/13/16																			64.6	
01/14/16																			66.6	
01/15/16																			66.6	
01/16/16																			66.9	
01/17/16																			65.9	
01/18/16																			67.7	
01/19/16	63.2		61.0	55.3	54.9	54.9	50.2	62.9	53.7	53.2	55.7	59.8	57.4	60.5	61.9	62.4	63.9	65.5	67.3	58.6
01/20/16	61.8		60.0	55.0	56.1	56.2	55.5	62.6	55.3	55.9	54.9	57.3	57.2	58.8	61.4	62.3	62.3	64.7	66.1	61.7
01/21/16	61.9	61.3	59.6	55.2	56.8	55.0	54.3	63.2	56.2	56.2	57.7	57.4	56.8	58.2	61.1	62.8	61.4	65.0	66.0	59.7
01/22/16	60.6	59.3	60.0	55.9	58.0	54.6	55.8	61.9	53.8	54.0	54.4	56.6	57.2	58.7	61.6	61.8	61.8	64.9	66.3	60.4
01/23/16	57.9	56.8	57.3	49.7	52.4	52.4	51.8	58.1	51.9	51.8	50.3	55.1	53.9	56.2	58.2	57.8	58.9	61.5	62.6	58.4
01/24/16	62.5	59.4	60.8	54.1	54.8	51.2	54.7	59.7	53.4	53.6	53.3	58.0	56.8	59.0	61.6	59.2	61.7	65.3	66.1	58.9
01/25/16	59.2	57.6	59.0	58.0	60.2	57.6	55.8	58.3	52.1	53.1	52.5	55.2	55.6	57.1	60.0	58.6	59.9	63.1	64.2	61.5
01/26/16	62.3	59.5	59.1	59.3	60.4	52.9	53.4	60.3	55.2	55.3	55.3	58.3	56.3	59.0	61.1	60.8	62.3	64.8	65.9	57.6
01/27/16	58.6	56.6	57.3	59.3	60.8	54.6	52.0	59.4	52.6	52.1	53.3	55.1	53.7	56.1	59.6	58.9	59.6	62.7	64.0	57.2
01/28/16	60.2	58.3	58.2	53.8	57.0	53.9	53.2	59.9	52.7	51.2	55.1	55.9	55.3	56.8	60.4	59.5	60.5	63.4	64.9	57.2
01/29/16	60.7	58.4	59.2	58.3	56.3	54.5	54.3	60.7	53.9	51.7	54.1	56.8	55.7	58.6	60.1	60.1	61.8	63.4	65.2	58.6
01/30/16	58.4	56.3	57.3	53.7	50.8	49.5	49.3	59.2	57.6	52.2	51.0	55.6	53.7	57.3	58.2	58.0	59.9	61.7	63.5	57.8
01/31/16	60.1	57.8	59.1	59.0	59.3	57.9	55.3	54.9	52.2	51.8	52.5	55.3	56.2	56.7	63.2	55.5	59.0	63.5	64.7	60.3
AVERAGE	61.0	58.5	59.3	56.8	57.3	55.1	55.1	60.9	53.7	52.8	54.2	57.1	55.9	58.3	60.8	60.4	61.4	64.0	65.5	59.3
NO. DAYS	31	11	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

TABLE 2. CNEL VALUES FOR FEBRUARY 2016

RMS NUMBER

Date	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19	20	21	22
02/01/16	56.3	53.5	53.9	60.6	61.4	62.4	58.1	52.1	54.7	53.1	48.6	45.9	53.2	47.2	61.4	53.4	52.9	59.4	60.1	64.0
02/02/16	60.7	57.7	58.4	55.2	58.7	55.3	52.0	59.8	57.0	53.1	53.6	56.3	55.5	57.2	59.8	59.6	60.3	63.4	64.6	57.5
02/03/16	60.9	57.7	58.6	53.9	54.5	59.1	56.0	60.7	55.2	55.0	55.8	57.6	55.0	58.0	59.7	60.4	61.1	63.7	65.1	63.4
02/04/16	55.4	52.5	52.9	51.4	51.9	52.7	48.9	56.0	50.2	47.9	51.0	50.9	49.1	52.2	53.7	55.3	54.7	57.6	59.4	54.0
02/05/16	59.3	57.7	58.3	60.4	60.0	55.6	54.4	59.7	52.6	53.2	52.9	54.9	55.0	57.4	59.8	59.4	60.7	63.4	65.2	58.3
02/06/16	57.9	55.2	55.5	55.4	55.2	50.6	52.2	56.2	53.0	52.4	52.8	54.5	52.6	55.5	56.6	56.8	58.5	61.3	62.3	57.9
02/07/16	56.7	53.4	55.5	52.6	49.3	44.7	47.9	60.2	48.6	48.0	50.8	53.2	50.6	55.3	55.8	60.2	57.7	60.0	62.4	54.4
02/08/16	58.6	56.6	56.8	57.4	55.1	55.2	55.2	58.2	52.3	50.9	53.1	54.3	54.5	56.0	59.0	58.0	59.3	62.2	63.7	61.0
02/09/16	59.4	56.9	57.8	55.9	55.2	55.2	55.1	59.2	52.9	53.9	53.7	55.1	54.6	57.5	59.2	58.6	60.1	62.7	64.2	58.6
02/10/16	60.1	57.5	58.3	53.3	54.0	53.1	51.1	60.7	54.3	54.4	54.6	55.1	54.9	57.0	59.4	60.1	60.1	63.8	64.5	57.0
02/11/16	62.1	60.2	61.0	56.6	57.6	54.9	52.2	61.0	53.9	55.0	57.1	57.3	58.4	59.0	64.3	60.6	62.5	65.7	67.0	61.3
02/12/16	60.4	58.9	59.6	56.3	57.0	49.8	52.3	61.6	52.7	52.0	55.8	56.3	56.5	58.0	60.8	61.3	61.5	64.6	65.9	66.1
02/13/16	59.5	57.4	58.8	56.3	56.8	51.0	49.9	58.9	55.1	53.2	53.3	55.3	54.8	57.5	59.7	57.9	60.0	63.1	64.6	55.5
02/14/16	58.9	56.7	58.3	56.3	54.0	52.6	51.9	59.1	56.5	54.6	52.8	54.6	54.5	56.5	59.5	59.0	59.4	62.6	64.2	59.5
02/15/16	60.1	58.8	59.5	58.7	59.1	49.8	52.7	60.7	53.0	51.3	53.7	55.5	55.9	57.7	60.8	59.9	61.3	64.2	65.8	60.5
02/16/16	61.5	60.5	61.8	62.3	60.8	53.5	50.1	61.1	58.1	54.9	54.5	57.0	58.1	59.5	62.6	60.3	62.5	66.1	67.3	58.7
02/17/16	63.3	59.3	59.5	60.7	57.4	55.8	55.1	63.8	53.7	52.4	57.6	60.2	55.9	60.0	60.5	63.4	62.9	64.7	67.0	61.6
02/18/16	59.7	57.3	58.1	53.8	55.3	50.1	52.3	60.9	52.7	52.0	51.2	56.4	54.4	58.0	58.9	60.6	61.2	62.7	64.3	57.4
02/19/16	61.8	59.6	59.7	53.4	56.4	52.9	51.9	62.7	56.4	54.7	55.2	57.6	56.2	59.7	61.4	62.2	62.8	64.8	66.8	56.4
02/20/16	58.2	56.2	57.8	53.0	53.7	51.6	54.9	59.5	48.4	48.3	51.4	55.1	54.0	56.1	58.4	59.2	58.9	61.5	63.1	59.3
02/21/16	60.5	59.6	59.7	56.6	57.6	54.9	53.5	57.4	50.0	51.5	51.1	55.2	56.7	57.4	61.9	57.5	60.9	64.6	65.8	57.8
02/22/16	56.5	54.9	57.0	59.7	59.7	61.1	57.7	53.9	52.4	52.7	49.9	47.5	54.5	51.2	61.5	56.4	55.2	61.0	62.0	63.1
02/23/16	62.4	59.5	60.0	62.0	62.4	59.2	59.2	61.2	57.3	57.1	54.5	56.8	56.7	58.1	61.3	61.2	61.4	65.1	66.2	70.3
02/24/16	60.8	58.9	59.7	53.5	56.0	53.4	51.1	60.2	53.4	55.1	55.3	55.8	56.4	57.9	60.8	59.8	60.7	64.4	65.5	57.3
02/25/16	61.3	59.3	60.2	58.7	59.7	52.2	52.2	60.9	55.1	52.5	53.2	57.6	54.6	59.8	61.1	60.2	63.1	65.1	66.9	57.0
02/26/16	60.1	58.5	59.5	60.3	58.2	57.2	65.2	61.6	52.1	53.9	52.8	55.8	55.0	58.5	60.1	61.2	61.7	64.3	65.8	69.8
02/27/16	59.3	55.2	57.5	54.8	56.4	50.5	52.7	58.6	53.8	55.0	51.2	56.2	51.6	58.3	57.2	58.0	60.7	62.2	64.1	58.3
02/28/16	60.4	57.5	59.5	57.0	52.5	51.1	53.9	60.2	49.4	49.7	50.0	54.9	52.6	57.9	59.3	59.6	60.9	63.6	65.5	61.2
02/29/16	61.7	57.3	60.4	57.1	53.8	50.3	53.4	60.8	48.1	51.4	52.3	57.0	53.3	58.0	59.2	60.1	62.9	64.7	67.2	58.6
AVERAGE	60.2	57.8	58.8	57.7	57.5	55.4	55.5	60.1	53.9	53.2	53.6	55.8	55.1	57.5	60.2	59.7	60.7	63.6	65.1	62.2
NO. DAYS	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29

TABLE 3. CNEL VALUES FOR MARCH 2016

RMS NUMBER

1 2 3 4 5 6 7 9 10 11 12 13 14 15 16 18 19 20 21 Date 03/01/16 61.4 53.7 57.6 54.6 52.0 48.8 53.7 62.9 52.3 52.1 51.1 55.6 46.6 56.7 50.4 62.7 58.9 62.2 64.1 59.7 03/02/16 63.5 56.7 59.8 54.5 54.8 53.4 52.9 62.5 55.7 56.1 52.9 56.6 47.7 59.0 58.6 61.8 61.4 66.6 67.7 58.4 03/03/16 59.2 51.0 56.8 52.8 53.8 52.1 53.4 63.0 54.8 53.0 50.1 53.9 48.5 55.4 52.4 62.3 60.6 60.9 64.2 57.8 03/04/16 60.2 51.8 58.7 54.8 52.5 47.6 52.3 61.4 53.6 49.6 52.1 56.0 55.6 58.3 60.2 60.9 61.8 63.9 65.4 58.1 03/05/16 58.7 46.3 56.9 50.4 53.8 48.7 49.3 59.0 52.5 52.8 50.7 56.0 53.0 57.3 57.5 58.6 60.0 61.6 63.5 54.1 03/06/16 59.9 48.7 59.7 54.6 57.6 53.8 55.5 61.2 53.1 52.2 51.9 55.9 56.8 58.6 61.9 61.1 61.9 64.9 66.2 61.8 03/07/16 61.7 59.7 61.2 57.4 59.3 57.2 55.9 60.8 53.5 54.2 55.3 56.2 57.8 58.4 63.0 60.5 61.6 65.3 66.6 60.9 03/08/16 59.1 57.7 59.1 60.7 61.9 63.6 60.1 56.9 52.6 56.3 52.5 53.4 56.7 54.9 65.1 58.8 58.1 63.9 65.0 65.9 03/09/16 60.7 58.1 58.5 55.3 56.0 49.3 49.5 61.1 53.1 54.5 56.4 55.4 57.9 59.9 60.7 61.4 63.5 65.4 54.4 03/10/16 61.9 59.7 60.7 56.0 55.6 52.5 51.6 63.8 53.5 51.0 55.1 57.8 57.2 59.6 61.6 63.9 63.0 65.1 66.9 58.7 03/11/16 61.4 60.2 61.4 56.7 59.7 59.5 57.9 61.6 52.8 53.6 53.1 57.1 58.0 59.3 63.5 61.0 62.1 65.2 66.5 62.7 03/12/16 59.6 58.5 59.6 53.1 51.6 49.1 50.7 61.4 49.5 49.2 51.0 55.9 55.1 57.7 59.9 59.8 60.3 63.3 64.6 54.4 03/13/16 60.6 58.8 59.7 48.9 55.0 48.0 49.8 61.1 50.2 50.4 51.7 57.1 55.2 59.6 60.5 60.7 62.2 64.2 66.1 52.8 03/14/16 60.5 57.6 59.5 56.1 58.0 58.4 55.1 59.6 57.0 55.3 52.3 55.8 55.6 58.2 63.0 60.6 61.2 63.7 65.6 61.0 03/15/16 61.6 58.5 59.7 53.6 57.9 50.7 51.8 62.3 55.4 53.3 53.9 58.1 55.1 59.2 60.6 62.3 62.2 64.1 66.2 57.5 03/16/16 61.9 58.9 60.3 51.8 54.0 52.5 52.3 62.1 55.4 54.2 56.4 56.7 56.5 58.4 61.4 61.7 61.7 64.7 66.2 57.1 03/17/16 62.4 60.2 61.4 58.2 55.2 50.7 53.8 62.1 53.1 57.2 54.0 58.1 57.7 60.1 62.4 61.5 63.3 65.8 67.6 58.7 03/18/16 61.7 58.6 60.5 55.5 55.8 55.0 54.5 62.9 57.2 56.6 52.9 56.8 57.3 59.5 61.1 62.8 62.9 65.5 67.0 60.4 03/19/16 59.8 57.2 59.1 51.4 53.0 42.7 43.5 59.5 54.8 54.3 50.8 54.8 55.0 57.8 58.1 59.1 60.5 63.6 65.0 47.9 03/20/16 61.3 58.9 60.1 54.8 53.6 51.5 49.4 62.1 51.2 50.6 50.9 56.3 56.5 58.3 59.9 61.3 61.3 64.1 65.6 53.9 03/21/16 61.4 59.8 59.9 51.4 54.6 44.2 49.3 61.5 53.5 50.7 51.9 57.3 57.3 59.4 60.8 60.8 62.2 65.0 66.4 53.1 03/22/16 58.6 56.4 58.4 62.5 63.4 64.5 60.0 58.9 53.4 54.0 47.7 52.5 56.6 52.4 64.0 58.0 56.8 62.9 64.0 66.1 03/23/16 61.2 56.0 57.2 56.9 58.6 59.9 55.9 60.7 54.1 53.7 53.3 55.8 53.9 56.8 58.7 61.0 60.3 62.4 64.3 62.4 03/24/16 60.6 58.6 60.7 58.0 59.0 59.9 55.2 59.0 55.5 51.1 50.9 54.6 57.5 58.0 63.2 60.7 61.3 65.0 66.6 62.7 03/25/16 61.6 58.6 59.5 56.9 55.6 52.6 54.9 62.2 53.5 53.7 53.3 56.9 56.2 59.0 59.7 62.0 62.1 64.0 65.9 59.9 03/26/16 59.2 56.3 57.9 51.5 53.5 47.3 51.0 59.7 55.1 53.3 49.8 55.0 54.4 57.1 59.0 59.1 60.4 62.3 64.4 55.4 03/27/16 60.7 58.0 58.9 54.3 55.8 51.1 54.4 61.4 52.8 52.1 52.6 56.9 55.2 59.0 58.2 60.6 61.4 63.7 65.4 57.8 03/28/16 61.7 58.6 59.3 58.3 58.6 57.3 57.8 60.4 51.9 55.2 52.5 58.0 55.7 58.8 60.6 59.9 61.2 64.3 65.8 62.6 03/29/16 63.5 60.0 61.2 56.8 53.9 54.4 54.5 62.2 52.5 54.8 55.5 58.2 53.6 59.9 61.4 61.7 62.6 65.4 66.6 59.4 03/30/16 63.2 58.2 61.1 52.5 61.5 52.3 54.4 62.2 52.3 54.1 57.1 57.9 53.5 59.8 61.5 61.9 62.3 65.1 66.5 58.7 03/31/16 61.3 57.2 60.8 63.0 62.7 63.1 61.2 61.5 53.0 56.2 53.1 55.7 53.2 59.5 62.3 60.9 62.0 65.2 66.2 65.9 AVERAGE 61.2 57.9 59.7 56.6 57.7 56.8 55.1 61.4 53.9 53.8 53.1 56.4 55.6 58.4 61.1 61.1 61.4 64.3 65.9 60.5 NO. DAYS 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 31 QTR. AVG. 60.8 57.9 59.3 56.9 57.4 55.6 55.1 60.9 53.8 53.3 53.6 56.5 55.5 58.1 60.7 60.5 61.2 63.9 65.5 60.7 NO. DAYS 91 71 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91

TABLE 4. AVERAGE CNEL VALUES

Site	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	4 Quarter
No.	2015	2015	2015	2016	Average
1	60.3	61.2	60.5	60.8	60.7
2	58.3	58.7	58.4	57.9	58.3
3	59.1	59.7	59.4	59.3	59.4
4	55.0	55.8	58.1	56.9	56.6
5	55.7	55.8	59.2	57.4	57.3
6	53.2	51.5	55.6	55.6	54.3
7	54.4	54.6	55.3	55.1	54.9
9	60.1	61.9	60.6	60.9	60.9
10	52.5	52.8	54.0	53.8	53.3
11	51.7	53.6	53.5	53.3	53.1
12	53.1	52.9	53.7	53.6	53.4
13	58.0	57.7	56.7	56.5	57.3
14	55.8	56.2	56.1	55.5	55.9
15	58.4	58.8	58.0	58.1	58.3
16	60.3	60.9	61.4	60.7	60.8
18	60.5	61.2	60.1	60.5	60.6
19	61.4	62.0	61.2	61.2	61.5
20	63.9	64.4	64.1	63.9	64.1
21	64.4	66.1	65.5	65.5	65.4
22	60.6	60.0	60.5	60.7	60.4

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FIRST QUARTER 2016

			ULE IN E			1/1/16	to	1/31/16	31 DA	
AIRCRAFT	AS D8-	Q400 ARR	AS B73 DEP	377 ARR	AS CR	J7 ARR	AS CRJ DEP	ARR	AS B73 DEP	378 ARR
DAY	0	0	6	2	14	14	0	0	14	11
EVENING	0	0	0	4	7	7	0	0	0	3
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	6	6	21	21	0	0	14	14
		SCHEE	ULE IN E	EFFECT	FROM	1/1/16	to	1/31/16		
		9US A32			US B73		US CRJ			
DAY	DEP 0	ARR 0	DEP 0	ARR 0	DEP 0	ARR 0	DEP 0	ARR 0	DEP 0	ARR 0
EVENING	0	0	0	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
		SCHEE	ULE IN E	FFFCT	FROM	1/1/16	to	1/31/16		
	US CR.	_	US CR		AA MD		WN B73		WN B7	375
- 411	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY EVENING	0 0	0 0	18 5	25 5	0 0	0 0	0	0	14 0	8 6
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	30	30	0	0	0	0	14	14
		SCHEL	ULE IN E	EEEECT	EDOM	1/1/16	to	1/31/16		
	WN B7		WN B7			1/1/16 20UA B73		UA B73	75	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	242	215	6	12	0	0	0	0	0	0
EVENING NIGHT	38 0	65 0	6 0	0 0	0 0	0 0	0 0	0	0	0 0
TOTAL	280	280	12	12	0	0	0	0	0	0
	IIA R75	SCHED 7UA RJ	OULE IN E	EFFECT UA CR	_	1/1/16 FE A30	to ∩	1/31/16 FE A31	n	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	24	18	7	7	0	0	0	1
EVENING	0	0	0	6	1	1	0	0	5	0
NIGHT TOTAL	0 0	0 0	0 24	0 24	0 8	0 8	0 0	0	0 5	4 5
TOTAL	O	Ü	24	24	Ü	O	O	Ü	O	J
			ULE IN			1/1/16	to	1/31/16		
	UPS A3	300 ARR	UPS B7	757 ARR	DL B75 DEP	ARR	DL CRJ DEP	ARR	DL CR.	J7 ARR
DAY	3	4	0	0	0	0	19	12	0	0
EVENING	5	0	0	0	0	0	0	7	0	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	19	19	0	0
		SCHEE	ULE IN E	EFFECT	FROM	1/1/16	to	1/31/16		
	DL CR.		B6 A32		FW2 A				TOTAL	
DAY	DEP	ARR	DEP	ARR	DEP	ARR			DEP	ARR
DAY EVENING	0 0	0 0	0 7	0 7	0 0	0 0			367 74	329 111
NIGHT	0	0	0	0	0	0			7	8
TOTAL	0	0	7	7	0	0			448	448

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FIRST QUARTER 2016

				EFFECT		2/1/16	to	3/4/16	33 DAY	
AIRCRAFT	AS D8-	Q400 ARR	AS B73 DEP	377 ARR	AS CR DEP	J7 ARR	AS CRJ DEP	ARR	AS B73 DEP	78 ARR
DAY	0 DEP	0 0	6 6	2	14	14	0 0	0 0	14	11
EVENING	0	0	0	4	7	7	0	0	0	3
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	6	6	21	21	0	0	14	14
	110 404			EFFECT		2/1/16	to	3/4/16		
	DEP	9US A32 ARR	DEP	ARR	US B73	373 ARR	US CRJ DEP	ARR	DEP	ARR
DAY	0	0	0	0	0	0	0	0	0	0
EVENING	0	0	0	0	0	0	0	0	0	0
NIGHT	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö
TOTAL	0	0	0	0	0	0	0	0	0	0
	US CR.		US CR	EFFECT	AA MD	2/1/16	to WN B73	3/4/16	WN B7	275
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	18	25	0	0	0	0	14	8
EVENING	0	Ö	5	5	Ö	Ö	0	0	0	6
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	30	30	0	0	0	0	14	14
		COLIE	NIII = 1811	FFFFAT	EDOM.	0/4/40	4	0/4/40		
	WN B7		WN B7	EFFECT		2/1/16 20UA B73	to 873	3/4/16 UA B73	75	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	242	215	6	12	0	0	0	0	0	0
EVENING	38	65	6	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	280	280	12	12	0	0	0	0	0	0
		SCHEL		EFFECT	FROM	2/1/16	to	3/4/16		
	UA B75	7UA RJ	OLL IIV	UA CR		FE A30		FE A31	0	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	24	18	7	7	0	0	2	7
EVENING	0	0	0	6	1	1	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	24	24	8	8	0	0	11	11
		SCHEE	ULE IN I	EFFECT	FROM	2/1/16	to	3/4/16		
	UPS A3		UPS B		DL B75		DL CRJ		DL CR.	
		ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	18	11	0	0
EVENING	5	0	0	0	0	0	0	7	0	0
NIGHT TOTAL	0 8	4 8	0 0	0 0	0 0	0 0	0 18	0 18	0	0 0
TOTAL	0	0	U	U	U	U	10	10	U	U
		SCHEE	ULE IN	EFFECT	FROM	2/1/16	to	3/4/16		
	DL CR.		B6 A32	20	FW2 A				TOTAL	S
	DEP	ARR	DEP	ARR	DEP	ARR			DEP	ARR
DAY	0	0	0	0	0	0			368	334
EVENING	0	0	7	7	0	0			78 -	111
NIGHT	0	0	0	0	0	0			7	8
TOTAL	0	0	7	7	0	0			453	453

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FIRST QUARTER 2016

			ULE IN E			3/5/16	to	3/9/16	5 DAY	
AIRCRAFT	AS D8-0 DEP	Q400 ARR	AS B73 DEP	377 ARR	AS CR. DEP	J7 ARR	AS CRJ DEP	ARR	AS B73 DEP	78 ARR
DAY	0	0	6	2	14	14	0	0	14	11
EVENING	0	0	0	4	7	7	0	0	0	3
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	6	6	21	21	0	0	14	14
		SCHEE	ULE IN E	EFFECT	FROM	3/5/16	to	3/9/16		
		9US A32			US B73		US CRJ			
DAY	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
EVENING	0 0	0 0	0 0	0 0	0 0	0 0	0	0	0	0 0
NIGHT	0	Ö	Ö	0	0	0	0	0	0	Ö
TOTAL	0	0	0	0	0	0	0	0	0	0
		SCHEE	ULE IN E	FEECT	FROM	3/5/16	to	3/9/16		
	US CR.		US CR.		AA MD		WN B73		WN B73	375
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	18	25	0	0	0	0	14	8
EVENING NIGHT	0 0	0 0	5 7	5 0	0 0	0 0	0	0	0	6 0
TOTAL	0	0	30	30	0	0	0	0	14	14
						-				
	\A/NLD7		ULE IN E			3/5/16 20UA B73	to	3/9/16	75	
	WN B73	ARR	WN B7	378 ARR	DEP	200A B73 ARR	73 DEP	UA B73 ARR	75 DEP	ARR
DAY	242	215	6	12	0	0	0	0	0	0
EVENING	38	65	6	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	280	280	12	12	0	0	0	0	0	0
		SCHEE	ULE IN E	EFFECT	FROM	3/5/16	to	3/9/16		
	-	7UA RJ		UA CR		FE A30		FE A310		
DAY	DEP	ARR	DEP 24	ARR	DEP 7	ARR 7	DEP	ARR	DEP 2	ARR 7
EVENING	0 0	0 0	0	18 6	1	1	0	0	9	0
NIGHT	Ö	Ö	Ö	0	Ö	0	0	0	0	4
TOTAL	0	0	24	24	8	8	0	0	11	11
		SCHEE	ULE IN E	FEECT	FROM	3/5/16	to	3/9/16		
	UPS A3		UPS B7		DL B75		DL CRJ	0/0/10	DL CRJ	7
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	19	12	0	0
EVENING NIGHT	5 0	0 4	0 0	0 0	0 0	0 0	0	7 0	0	0 0
TOTAL	8	8	0	0	0	0	19	19	0	0
						-				-
	D. 0D		ULE IN E			3/5/16	to	3/9/16		_
	DL CRJ DEP	19 ARR	B6 A32 DEP	0 ARR	FW2 A3 DEP	319 ARR			TOTAL DEP	S ARR
DAY	0 DEP	0	0 DEP	0	0 0	0 0			369	335
EVENING	0	0	7	7	0	0			78	111
NIGHT	0	0	0	0	0	0			7	8
TOTAL	0	0	7	7	0	0			454	454

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FIRST QUARTER 2016

AIRCRAFT DAY EVENING NIGHT TOTAL	AS D8- DEP 0 0 0		DULE IN AS B7 DEP 6 0 0 6	EFFECT 377 ARR 2 4 0 6	FROM AS CR DEP 14 7 0 21	3/10/16 RJ7 ARR 14 7 0 21	to AS CRJ DEP 0 0 0 0		18 DA\ AS B73 DEP 14 0 0 14	
DAY EVENING NIGHT TOTAL	US A3 ⁻ DEP 0 0 0	SCHEI 19US A32 ARR 0 0 0 0	_	EFFECT 372 ARR 0 0 0	FROM US B7 DEP 0 0 0	3/10/16 373 ARR 0 0 0 0	to US CRJ DEP 0 0 0	3/27/16 ARR 0 0 0 0	DEP 0 0 0	ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	US CR DEP 0 0 0	_	DULE IN US CF DEP 18 5 7 30	EFFECT RJ9 ARR 25 5 0 30	FROM AA ME DEP 0 0 0 0	3/10/16 080 ARR 0 0 0	to WN B73 DEP 0 0 0	3/27/16 373 ARR 0 0 0	WN B75 DEP 14 0 0 14	375 ARR 8 6 0 14
DAY EVENING NIGHT TOTAL	WN B7 DEP 245 58 0 303		DULE IN WN B7 DEP 1 0 0	EFFECT 7378 ARR 1 0 0		3/10/16 20UA B73 ARR 0 0 0 0		3/27/16 UA B73 ARR 0 0 0	75 DEP 0 0 0	ARR 0 0 0
DAY EVENING NIGHT TOTAL	UA B75 DEP 0 0 0 0	SCHEI 57UA RJ ARR 0 0 0 0	DULE IN DEP 24 0 0 24 24	EFFECT UA CR ARR 18 6 0 24	_	3/10/16 FE A30 ARR 7 1 0		3/27/16 FE A310 ARR 0 0 0	0 DEP 2 9 0	ARR 7 0 4 11
DAY EVENING NIGHT TOTAL	UPS AS DEP 3 5 0		UPS B		FROM DL B7 DEP 0 0 0	3/10/16 52 ARR 0 0 0 0	DL CRJ		DL CR. DEP 0 0 0	J7 ARR 0 0 0 0
DAY EVENING NIGHT TOTAL	DL CR. DEP 0 0 0		DULE IN B6 A33 DEP 0 7 0 7	EFFECT 20 ARR 0 7 0 7	FROM FW2 A DEP 0 0 0 0	3/10/16 \(\alpha \) ARR 0 0 0 0	to	3/27/16	TOTAL DEP 367 92 7 466	.S ARR 333 125 8 466

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FIRST QUARTER 2016

		SCHED	ULE IN E	FFECT	FROM	3/28/16	to	3/31/16	4 DAYS	3
AIRCRAFT	AS D8-0		AS B73		AS CRJ		AS CRJ		AS B73	-
DAY	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY EVENING	0 0	0	3 0	3 0	14 6	14 6	0	0	21 0	14 7
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	3	3	20	20	0	0	21	21
	110 404		ULE IN E			3/28/16		3/31/16		
	DEP	9US A32 ARR	005 B73	ARR	US B73 DEP	ARR	US CRJ DEP	ARR	DEP	ARR
DAY	0	0	0	0	0	0	0	0	0	0
EVENING	Ö	0	0	Ö	Ö	0	0	0	Ö	Ö
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
		CCHED		FEECT		2/20/46	to	2/24/46		
	US CR.		ULE IN E		AA MD8	3/28/16 30	WN B73	3/31/16 373	WN B73	375
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	18	25	0	0	0	0	14	8
EVENING	0	0	5	5	0	0	0	0	0	6
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	30	30	0	0	0	0	14	14
		SCHED	ULE IN E	FFECT	FROM	3/28/16	to	3/31/16		
	WN B73		WN B73			0UA B73		UA B73	75	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	245	224	1	1	0	0	0	0	0	0
EVENING	58	79	0	0	0	0	0	0	0	0
NIGHT TOTAL	0 303	0 303	0 1	0 1	0	0	0	0	0	0 0
TOTAL	303	303	'	'	U	U	U	U	U	U
		SCHED	ULE IN E	FFECT	FROM	3/28/16		3/31/16		
		7UA RJ		UA CR		FE A300		FE A310		
DAY	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY EVENING	0 0	0	24 0	18 6	7 1	7 1	0	0	2 9	7 0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	Ö	Ö	24	24	8	8	0	0	11	11
						0/00//0		0/0///0		
	UPS A3		ULE IN E UPS B7		FROM DL B75	3/28/16	to DL CRJ	3/31/16	DL CRJ	7
					DEP					
DAY	3	4	0	0	0	0	19	12	0	0
EVENING	5	0	0	0	0	0	0	7	0	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	19	19	0	0
		SCHED	ULE IN E	EEECT	EBOM.	3/28/16	to	3/31/16		
	DL CRJ		B6 A32		FW2 A3		ιο	3/3 1/10	TOTAL	s
	DEP	ARR	DEP	ARR	DEP	ARR			DEP	ARR
DAY	0	0	0	0	0	0			371	337
EVENING	0	0	7	7	0	0			91	124
NIGHT	0	0	0	0	0	0			7	8
TOTAL	0	0	7	7	0	0			469	469

TABLE 5. (CONTINUED)

FIRST QUARTER 2016

PERIOD TOTALS FOR AIR CARRIERS AND AIR TAXIS

AIR CARRIER	S	
	<u>DEP</u>	<u>ARR</u>
DAY	4212	3926
EVE	967	1149
NIGHT	0	104
TOTAL	5179	5179
AIR TAXIS	DED	ADD
	DEP	ARR

	DEP	AKK
DAY	1060	982
EVE	168	337
NIGHT	91	0
TOTAL	1319	1319

AIR CARRIERS AND AIR TAXIS

	<u>DEP</u>	<u>ARR</u>
DAY	5272	4908
EVE	1135	1486
NIGHT	91	104
TOTAL	6498	6498

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 546.3 and 235.5 acres, respectively. The areas of incompatible land uses enclosed by the contours were then computed. The incompatible land use areas were 5.86 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 103 parcels of land. Those 103 parcels total 14.26 acres. One of the 103 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 56 parcels of land. For 48 of the 56 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 40 single family residential parcels, totaling approximately 5.73 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 42 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 113 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 Burbank Airport, Second Quarter 2015",
 AAAI Report 1469.
- "Quarterly Noise Monitoring at Burbank Airport, Third Quarter 2015",
 AAAI Report 1470.
- "Quarterly Noise Monitoring at Bob Hope Airport, Fourth Quarter 2015",
 AAAI Report 1471.

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.

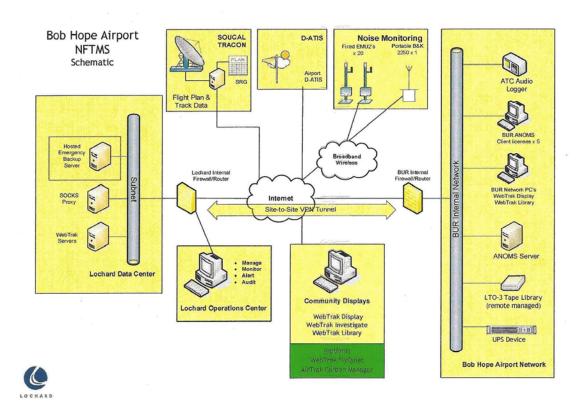


Figure A-1. Permanent Noise Monitor System Schematic

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	0.0
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

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

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