



ACOUSTICAL ANALYSIS ASSOCIATES, INCORPORATED

**AAAI Report 1515
AAAI Project 88018**

QUARTERLY NOISE MONITORING AT HOLLYWOOD BURBANK AIRPORT FOURTH QUARTER 2017

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AAAI Project 88018

QUARTERLY NOISE MONITORING
AT HOLLYWOOD BURBANK AIRPORT
FOURTH QUARTER 2017

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**QUARTERLY NOISE MONITORING AT HOLLYWOOD BURBANK AIRPORT
FOURTH QUARTER 2017**

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 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 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 fourth quarter of 2017. Noise impact boundaries for 65 dB and 70 dB are shown based on these measurements and measurements obtained during the first, second and third quarter 2017 reported in

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

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

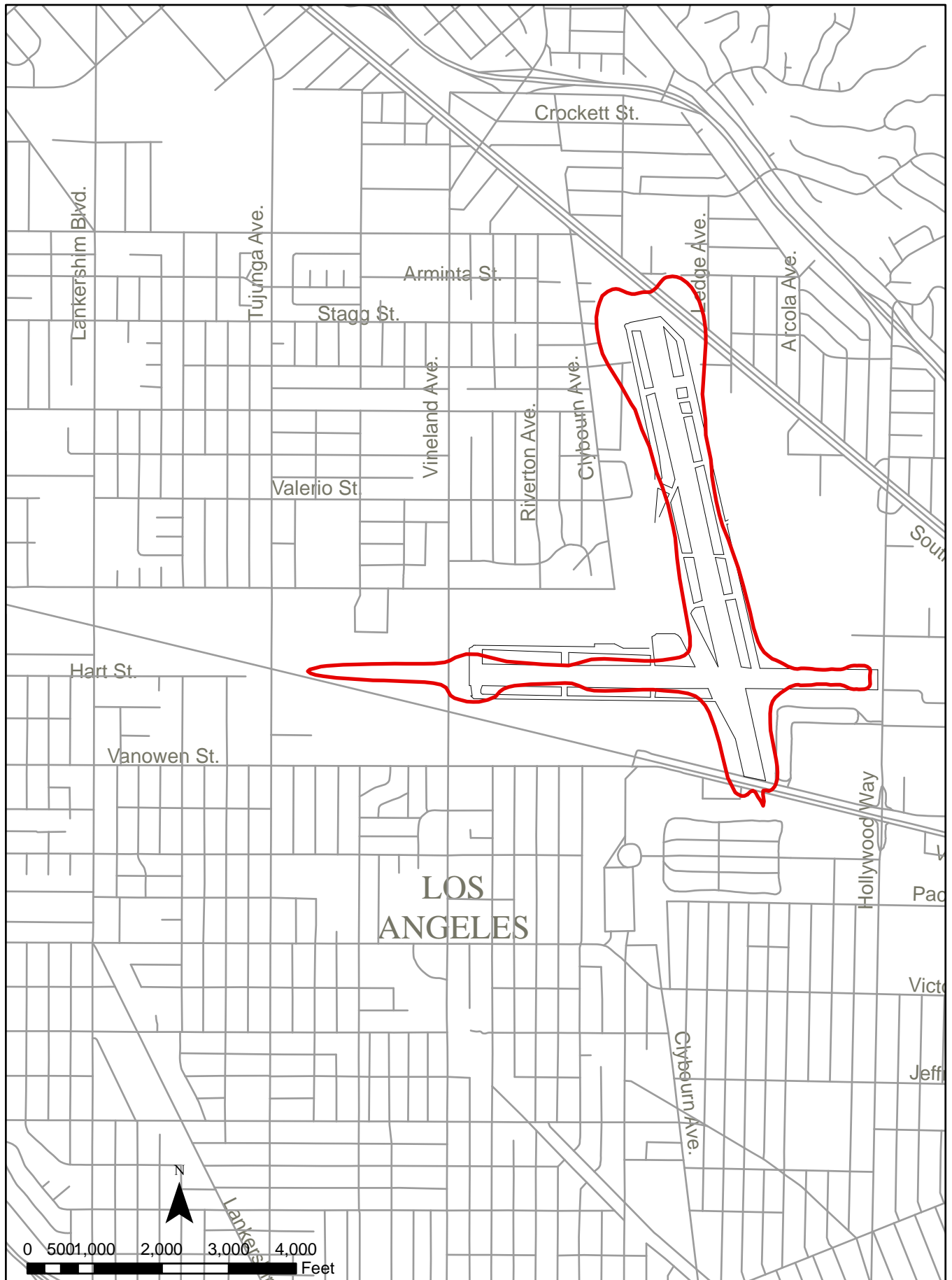
Aircraft noise levels were monitored at 15 locations prior to February, 1997. Two sites were added in February 1997, and equipment at one site west of the airport was moved to a new location. In July 2003, the monitor station at site 9 was moved 105 feet further west to accommodate new construction at 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

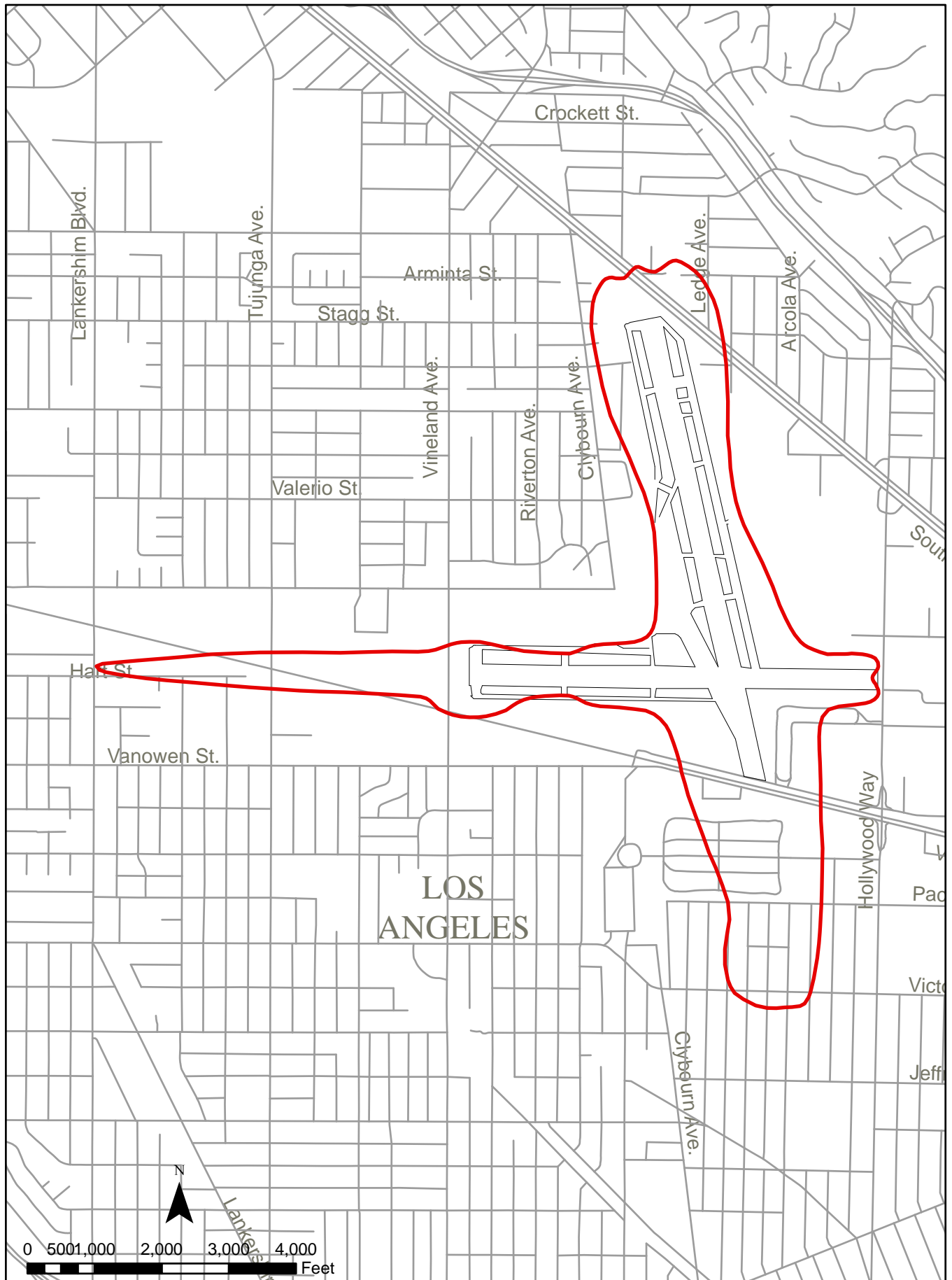
Each of the microphone locations uses an identical set of equipment connected to a central control unit. The noise level at each site is stored locally and transmitted by broad band connection to the central site once per 24-hour period. The automated noise and flight track monitoring software processes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

C. Noise Data

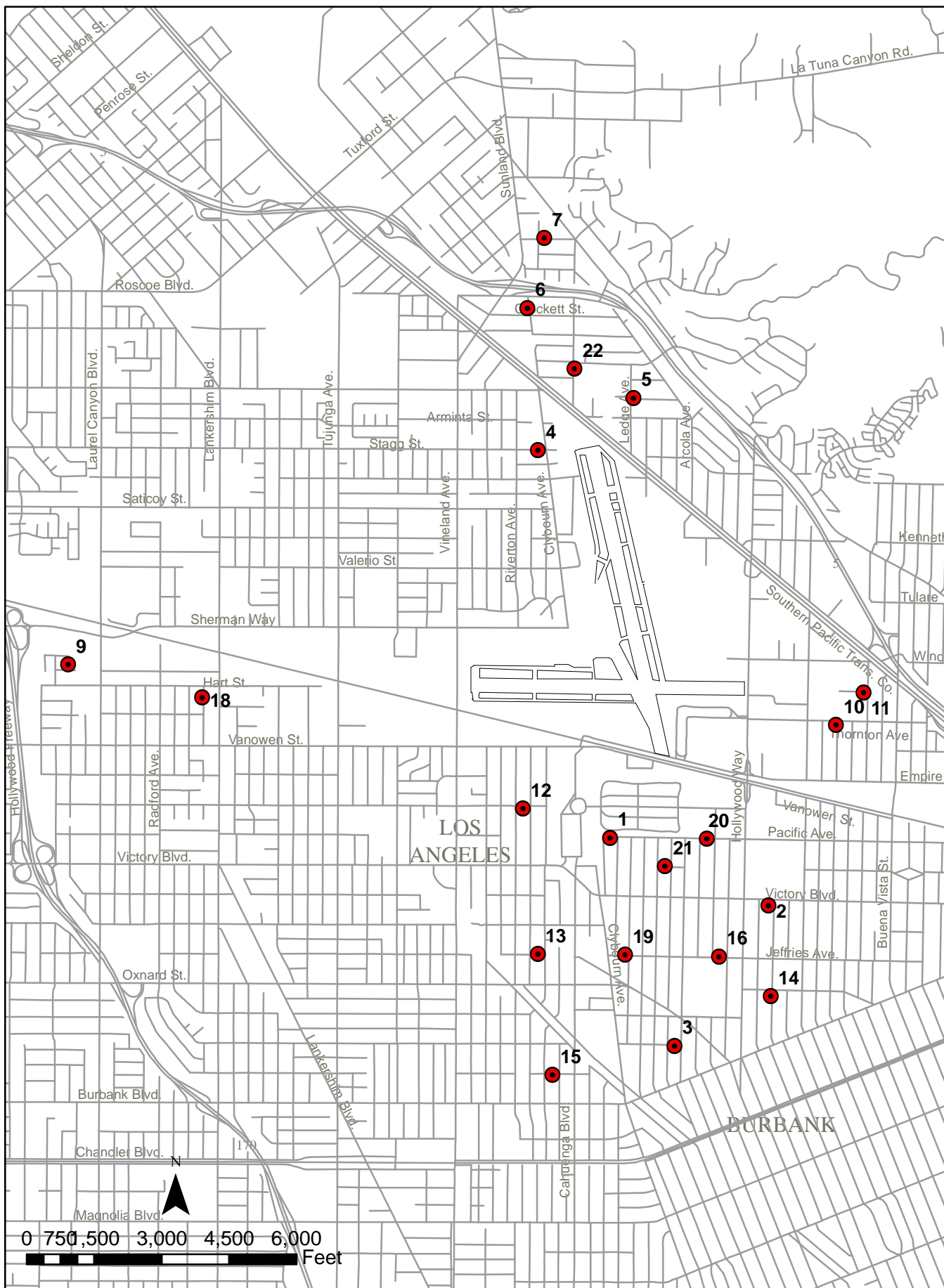
During this quarter, there were occasional power interruptions and monitor equipment failures, causing some loss of data. Tables 1, 2, and 3 show the aircraft CNEL measured at each monitoring site for each day of the quarter. The dashed lines indicate days for which a monitor was operating for less than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



BURBANK AIRPORT - 70 CNEL CONTOUR for 4th QUARTER 2017



BURBANK AIRPORT - 65 CNEL CONTOUR for 4th QUARTER 2017



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 OCTOBER 2017

RMS NUMBER																					
Date	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19	20	21	22	
10/01/17	61.1	59.0	60.4	52.1	55.4	48.4	52.6	61.6	48.3	45.2	52.0	57.5	56.7	59.9	61.2	61.9	62.9	64.8	66.5	----	
10/02/17	62.1	59.8	60.8	51.9	56.1	47.5	55.1	61.5	53.0	54.8	53.6	58.5	57.5	60.7	61.8	61.1	63.5	65.4	67.0	----	
10/03/17	61.9	59.5	60.6	54.3	55.9	49.8	51.8	62.6	50.5	48.2	54.9	58.5	57.3	60.0	61.2	62.0	62.8	64.9	66.3	----	
10/04/17	61.6	60.1	61.7	54.5	54.8	46.8	50.9	62.6	55.7	49.6	54.8	57.2	58.2	60.4	62.5	62.4	63.1	66.0	67.1	----	
10/05/17	61.8	59.9	61.3	55.0	58.7	52.5	53.9	62.1	51.0	52.1	54.3	57.0	57.7	59.6	62.1	62.0	62.6	66.0	67.3	----	
10/06/17	60.6	59.0	59.8	58.5	58.6	51.7	54.6	60.9	52.7	51.2	54.5	55.9	56.6	58.5	61.3	60.9	61.6	64.9	66.0	----	
10/07/17	57.8	56.9	57.7	54.8	55.3	55.5	50.3	57.5	50.9	50.1	51.0	53.2	54.2	56.0	58.8	57.2	58.8	62.6	63.8	----	
10/08/17	60.4	59.0	60.3	58.7	57.3	49.4	57.0	61.7	52.7	48.6	52.1	56.9	56.5	59.8	61.4	61.4	62.6	64.7	66.3	----	
10/09/17	61.8	60.5	61.3	52.5	56.8	45.5	52.1	60.3	49.5	52.5	53.9	57.4	58.0	59.7	62.5	60.6	63.1	65.9	67.1	----	
10/10/17	60.0	58.5	59.9	52.2	54.9	50.8	54.9	60.4	54.1	53.1	52.0	56.4	56.3	58.3	60.7	60.4	61.5	64.3	65.4	----	
10/11/17	62.0	59.6	60.8	55.2	56.3	50.9	54.1	62.3	52.4	51.1	54.1	58.4	57.6	60.2	61.8	62.4	63.3	65.1	66.7	----	
10/12/17	62.1	60.2	61.6	58.7	54.1	52.5	55.0	62.7	51.1	50.4	54.5	58.5	58.0	61.1	62.4	61.9	64.2	66.1	67.7	----	
10/13/17	61.8	59.9	61.3	56.4	56.8	57.3	58.5	63.6	55.0	50.2	54.3	57.4	57.7	60.1	62.1	63.1	63.1	65.4	67.2	----	
10/14/17	58.8	57.5	58.7	55.3	56.2	55.8	56.7	58.0	58.9	49.3	51.9	54.7	55.0	57.0	59.6	57.7	59.8	63.5	64.7	----	
10/15/17	58.5	57.2	58.6	55.6	57.5	49.1	54.3	59.0	46.8	44.0	49.9	53.0	54.6	56.6	59.7	58.8	59.8	63.4	64.7	----	
10/16/17	59.5	59.0	60.4	51.3	53.4	55.1	56.1	58.6	51.9	54.6	52.6	53.8	56.6	57.1	61.8	58.7	60.4	64.9	65.8	----	
10/17/17	60.3	58.6	59.8	56.2	54.9	51.5	55.3	60.9	53.1	50.3	53.6	55.0	56.5	58.1	61.0	61.7	61.2	64.3	65.5	----	
10/18/17	61.4	59.0	60.2	57.9	56.3	52.9	55.9	62.8	50.1	49.1	53.4	57.7	56.5	59.9	61.1	62.6	63.0	64.9	66.6	----	
10/19/17	63.0	60.4	61.6	55.8	56.7	51.4	56.4	62.7	54.2	52.7	55.6	59.5	58.1	61.2	62.7	62.3	63.9	66.3	67.8	----	
10/20/17	62.4	60.7	62.4	57.7	59.3	59.3	57.2	63.2	52.5	53.1	54.4	58.5	58.8	60.4	63.8	62.6	63.7	66.5	67.8	----	
10/21/17	58.9	57.6	58.9	54.5	57.5	49.0	51.8	58.1	49.0	48.5	51.5	55.2	54.9	58.0	59.6	57.9	60.8	63.1	64.7	----	
10/22/17	59.9	58.3	59.8	57.0	57.8	49.0	51.8	60.7	54.6	49.7	52.3	56.4	56.1	57.7	60.7	60.1	60.9	64.4	65.6	----	
10/23/17	59.1	57.9	59.5	58.3	56.8	52.0	55.8	60.0	50.5	50.0	52.5	53.6	55.6	57.0	60.4	59.9	60.7	63.9	65.1	----	
10/24/17	59.8	57.7	58.5	57.1	56.7	56.6	55.8	61.7	52.8	51.1	53.6	56.1	55.8	56.5	60.7	61.6	60.0	63.5	64.6	----	
10/25/17	59.3	57.6	58.9	57.4	57.5	55.3	57.1	61.3	52.1	54.0	54.3	56.3	55.3	57.8	60.0	61.5	60.6	63.7	64.9	----	
10/26/17	62.6	60.1	61.5	56.7	56.1	51.0	54.4	62.5	54.0	51.1	56.0	61.5	57.8	59.1	62.4	62.3	62.6	65.9	67.0	----	
10/27/17	61.8	59.4	60.2	54.0	55.7	51.3	58.9	61.7	53.7	48.4	55.1	57.2	57.0	59.1	61.3	61.1	62.5	65.3	66.3	----	
10/28/17	59.5	57.9	59.2	56.0	57.3	54.0	57.9	59.6	52.9	49.6	51.5	54.2	55.7	57.0	60.1	58.8	60.6	63.6	64.8	----	
10/29/17	60.8	59.1	60.5	56.1	56.3	45.1	52.3	62.7	52.0	53.6	53.2	57.1	56.7	60.1	61.4	62.2	62.6	65.2	66.5	----	
10/30/17	62.3	60.3	61.0	54.9	55.9	46.8	49.2	62.4	50.4	48.6	54.0	59.0	57.8	60.9	61.8	61.5	63.9	65.7	67.2	----	
10/31/17	61.3	58.6	59.3	57.3	56.1	51.2	51.0	63.0	55.0	52.6	53.3	59.3	55.8	60.2	59.9	62.7	62.5	64.1	65.6	55.0	
AVERAGE	61.0	59.1	60.3	56.1	56.6	52.9	55.1	61.5	53.0	51.2	53.6	57.2	56.8	59.2	61.4	61.3	62.2	64.9	66.2	55.0	
NO. DAYS	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1	

TABLE 2. CNEL VALUES FOR NOVEMBER 2017

RMS NUMBER

Date	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19	20	21	22
11/01/17	62.1	60.1	61.1	54.1	58.6	45.3	48.5	63.5	54.7	51.1	54.0	58.8	57.4	60.3	61.8	63.9	63.2	65.2	67.1	54.0
11/02/17	62.5	60.6	61.7	53.0	57.7	45.2	51.5	62.1	55.0	47.3	54.5	59.2	58.5	60.3	62.6	61.5	63.3	66.2	66.9	51.5
11/03/17	56.9	49.6	47.3	47.8	51.5	47.6	54.4	51.7	50.4	49.8	47.4	52.4	50.8	51.7	55.9	51.7	49.4	56.7	61.1	53.0
11/04/17	56.8	55.1	57.6	47.1	50.6	42.4	48.7	52.3	47.1	52.4	48.6	54.3	54.8	54.4	59.2	51.3	55.0	59.4	63.4	46.9
11/05/17	61.3	59.2	60.4	54.4	55.0	50.1	54.9	62.6	50.3	52.6	54.7	56.9	56.9	59.8	61.4	62.8	62.8	64.9	66.0	61.0
11/06/17	61.8	59.3	59.8	53.4	56.1	52.4	56.4	61.1	53.6	54.6	53.2	57.5	56.7	59.2	60.8	60.9	62.4	64.6	65.8	62.2
11/07/17	61.5	59.4	60.8	54.9	54.1	49.4	55.1	61.8	52.3	55.3	53.3	57.0	57.7	59.1	61.8	61.1	62.0	65.1	66.2	57.6
11/08/17	61.6	59.8	61.2	55.1	56.2	52.4	57.9	63.5	55.0	52.4	54.1	57.9	57.7	59.9	61.9	62.7	62.9	65.5	66.8	61.0
11/09/17	62.5	61.4	62.7	56.1	55.0	53.6	53.6	63.3	52.5	50.9	56.0	57.4	59.2	60.3	63.8	62.8	63.6	67.0	68.0	57.6
11/10/17	61.9	60.5	61.9	53.8	54.7	52.0	51.9	61.7	55.0	49.8	54.1	57.8	58.7	60.6	63.7	61.2	63.4	67.0	67.5	57.4
11/11/17	60.4	59.5	59.2	54.5	56.7	52.7	55.7	59.4	54.0	54.1	51.7	57.6	56.3	58.8	60.1	59.0	61.2	65.3	65.4	60.2
11/12/17	60.9	59.5	60.7	54.7	55.3	52.8	58.0	61.2	56.8	47.1	53.6	56.1	57.1	59.4	61.5	60.4	62.5	65.2	66.7	62.6
11/13/17	62.3	60.0	61.2	56.2	56.3	51.3	56.4	62.5	54.5	53.3	56.9	58.0	57.6	59.7	62.1	62.0	62.9	66.1	67.2	59.8
11/14/17	62.1	60.3	61.1	57.0	58.6	52.1	52.7	62.2	54.2	53.1	54.9	58.2	57.5	60.4	61.7	61.6	63.2	65.3	66.6	58.3
11/15/17	62.8	60.6	61.7	61.9	64.5	58.3	60.2	61.4	53.9	53.9	56.0	57.1	59.7	59.9	64.0	61.3	63.3	66.7	67.7	64.5
11/16/17	60.4	57.6	58.9	55.6	58.3	53.6	58.3	59.7	51.3	51.0	52.4	56.7	54.9	57.9	60.3	58.9	61.1	63.6	65.0	62.8
11/17/17	62.8	61.1	62.3	57.0	55.6	52.2	55.2	63.2	52.2	51.4	54.8	58.3	59.1	61.1	63.6	62.5	64.1	67.0	68.3	59.2
11/18/17	58.8	57.9	59.0	51.7	55.4	54.9	56.0	58.4	50.8	53.1	51.5	54.5	55.3	57.3	59.7	58.1	60.5	63.4	64.8	61.3
11/19/17	59.3	57.7	58.5	49.5	53.6	48.5	52.9	60.4	51.6	52.3	49.8	53.8	55.2	56.3	59.8	60.1	59.9	63.5	64.4	58.0
11/20/17	61.0	59.5	61.2	57.3	56.8	47.3	50.8	60.7	52.5	54.1	53.4	55.3	57.6	58.6	62.0	59.9	62.0	65.0	66.3	55.5
11/21/17	61.7	60.6	62.2	55.4	57.4	56.5	59.6	60.7	57.6	54.0	55.8	56.4	58.4	59.1	63.1	60.3	62.3	66.6	67.7	64.2
11/22/17	61.3	59.7	60.9	56.5	58.3	56.2	58.6	60.0	55.7	53.4	53.8	55.1	57.6	58.7	62.6	60.1	61.9	65.5	66.9	62.4
11/23/17	57.4	56.0	58.0	51.4	55.4	50.3	53.0	56.9	50.4	48.4	50.6	51.1	53.9	55.3	58.8	57.3	58.4	62.2	63.6	57.9
11/24/17	60.1	59.3	60.1	60.1	61.7	51.1	54.7	62.1	51.5	50.6	52.9	54.1	57.5	57.5	61.9	61.2	61.0	65.4	66.1	60.0
11/25/17	59.4	58.1	59.0	56.5	54.4	45.3	46.7	60.3	47.9	48.7	52.2	54.6	55.5	57.4	60.1	60.0	60.8	64.1	65.5	53.2
11/26/17	61.8	59.9	60.1	56.3	52.2	49.3	53.9	62.9	50.6	49.3	53.2	55.6	57.1	59.1	61.3	62.1	62.3	65.4	66.7	58.2
11/27/17	62.7	60.6	61.9	56.1	55.7	55.4	53.3	61.5	52.5	51.1	55.1	57.9	59.0	60.3	63.4	61.5	63.3	66.0	67.6	58.4
11/28/17	61.2	59.3	60.0	55.9	54.8	52.6	54.8	62.1	53.8	52.1	53.5	57.3	57.1	58.6	61.0	61.4	61.9	64.6	66.0	59.1
11/29/17	61.2	59.0	60.4	53.3	56.0	49.2	50.7	61.4	51.9	51.6	53.8	57.0	56.8	58.8	61.1	61.8	62.1	64.7	66	55.9
11/30/17	61.9	60.0	61.5	56.3	57.8	53.5	56.2	61.8	55.8	52.3	56.0	57.5	57.9	60.0	62.1	61.4	63.0	65.7	66.8	60.7
AVERAGE	61.2	59.4	60.6	55.8	57.2	52.5	55.4	61.3	53.5	52.2	53.9	56.7	57.3	59.0	61.7	61.0	62.1	65.1	66.4	59.8
NO. DAYS	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

TABLE 3. CNEL VALUES FOR DECEMBER 2017

RMS NUMBER																					
Date	1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19	20	21	22	
12/01/17	61.6	59.9	60.5	54.5	55.0	50.3	53.8	61.8	53.5	52.5	54.5	57.1	57.4	58.8	61.2	61.3	62.1	64.9	66.2	57.9	
12/02/17	59.4	57.8	58.7	54.5	56.2	49.8	52.7	59.1	49.8	48.8	53.1	55.6	55.2	58.3	59.6	58.5	61.0	63.2	64.7	58.6	
12/03/17	60.9	58.9	60.2	59.3	56.5	51.9	50.3	60.9	50.9	49.2	53.1	56.4	56.6	58.8	60.9	60.4	61.8	64.6	66.0	57.7	
12/04/17	58.1	56.0	57.0	61.9	61.8	63.2	60.1	54.5	53.6	53.7	51.7	51.8	54.9	53.1	61.8	53.7	56.9	61.7	62.7	64.9	
12/05/17	55.1	47.3	49.0	61.3	61.0	62.5	58.4	59.5	53.8	51.9	49.2	49.2	49.4	36.3	55.4	59.0	43.4	56.6	55.4	64.6	
12/06/17	52.0	47.7	43.2	59.2	60.6	62.8	59.0	59.3	51.6	48.2	49.2	44.2	42.3	38.7	50.6	59.6	46.3	52.2	54.0	64.8	
12/07/17	58.2	52.9	53.3	60.0	59.5	62.3	59.0	59.8	49.9	50.3	50.8	51.5	51.0	51.3	55.2	59.3	55.1	59.8	59.7	64.6	
12/08/17	59.7	58.2	58.8	59.9	61.1	50.1	49.2	61.5	51.4	52.1	53.2	55.3	55.3	57.8	60.4	60.8	61.2	63.8	65.1	54.1	
12/09/17	54.1	53.4	53.4	55.2	53.9	53.4	49.2	55.8	54.7	45.1	46.1	50.8	50.1	52.1	54.0	55.9	55.5	58.4	60.2	56.7	
12/10/17	57.6	56.0	57.5	55.6	55.8	46.1	45.7	58.0	48.9	44.4	51.1	53.1	53.4	55.5	58.3	58.0	58.8	62.3	63.7	52.6	
12/11/17	58.5	56.8	57.5	56.4	55.1	48.1	47.7	57.8	48.1	50.4	50.4	52.8	54.0	55.5	58.8	57.6	59.1	63.0	64.1	53.6	
12/12/17	58.5	56.8	57.5	60.8	59.9	53.4	48.3	60.5	54.4	54.1	51.9	54.3	53.9	56.0	58.7	61.1	59.3	62.9	64.0	54.3	
12/13/17	58.4	56.5	57.6	58.4	57.3	50.4	50.2	60.1	49.8	47.7	51.6	52.8	54.0	55.8	58.8	59.6	59.6	62.7	64.0	55.4	
12/14/17	60.0	57.6	59.4	59.3	55.4	50.4	51.2	59.9	54.1	54.5	52.8	53.4	55.1	57.2	60.0	59.5	60.8	64.0	65.3	55.9	
12/15/17	59.3	58.2	59.8	56.2	58.2	53.6	61.4	60.1	51.1	53.4	53.0	54.2	56.0	56.9	61.2	59.7	60.3	64.1	65.2	62.4	
12/16/17	58.8	57.1	58.2	51.8	53.5	54.0	51.1	59.8	43.7	42.8	50.2	54.5	54.5	57.3	59.0	59.0	60.5	62.8	64.4	56.9	
12/17/17	58.3	56.2	56.9	57.4	58.7	59.1	55.6	59.3	49.1	53.4	50.8	53.0	53.7	55.4	58.3	58.7	58.4	61.8	63.7	61.3	
12/18/17	60.4	58.8	60.0	57.7	57.6	45.3	50.1	59.6	54.4	45.9	52.8	56.0	56.8	58.8	60.9	59.2	63.3	64.8	66.3	56.0	
12/19/17	61.7	60.1	60.6	58.7	57.9	51.7	53.9	62.5	50.2	48.9	54.6	57.8	57.5	59.8	61.5	61.8	62.9	65.6	66.9	57.8	
12/20/17	61.0	59.0	60.5	62.5	63.5	63.4	60.1	62.1	51.3	50.7	53.4	56.7	57.9	58.2	64.4	61.1	61.3	65.0	66.2	65.4	
12/21/17	61.8	59.1	59.9	59.3	59.6	58.2	56.3	60.9	52.1	48.3	54.2	57.1	56.8	58.6	61.1	60.5	62.2	64.8	66.1	61.4	
12/22/17	60.5	59.2	60.4	53.5	55.9	50.0	53.7	60.8	51.1	48.7	52.5	55.5	56.7	58.4	61.7	60.2	61.5	64.8	66.1	59.4	
12/23/17	57.6	55.9	57.1	53.9	56.0	50.9	50.6	59.0	51.3	45.6	51.1	52.1	52.9	55.2	57.8	58.7	58.3	62.2	63.5	60.1	
12/24/17	58.0	55.4	56.2	53.9	53.4	44.7	50.3	58.7	46.6	44.6	50.8	52.8	52.5	54.8	57.1	57.8	58.3	61.0	62.6	55.9	
12/25/17	59.0	58.0	59.5	54.1	55.9	47.4	46.7	60.3	48.5	43.6	51.2	53.9	55.5	57.3	60.1	59.6	60.2	63.7	65.2	52.7	
12/26/17	62.3	61.1	62.2	65.0	68.8	52.5	54.0	61.5	53.6	52.1	56.6	57.9	58.3	61.2	62.9	61.2	64.0	67.8	68.4	57.9	
12/27/17	61.3	60.0	61.2	61.3	62.0	54.7	55.8	61.9	56.0	55.9	55.2	57.3	57.9	60.3	62.1	62.5	62.9	65.7	67.2	60.1	
12/28/17	60.8	59.2	59.9	58.9	60.2	55.1	56.4	61.2	53.8	49.6	53.2	55.1	57.7	58.2	61.4	61.1	61.5	64.8	66.3	60.7	
12/29/17	60.2	58.5	59.4	58.4	59.7	52.9	53.9	61.5	52.8	55.7	55.9	56.0	55.8	58.2	60.4	61.2	61.2	63.9	65.5	58.6	
12/30/17	59.0	57.3	58.6	56.7	56.4	49.1	50.9	60.5	46.6	48.1	51.3	54.3	54.9	57.6	59.4	61.8	60.3	62.8	64.4	54.8	
12/31/17	59.4	57.7	58.5	54.9	55.8	48.3	48.9	59.2	52.6	48.3	52.4	54.4	54.8	56.9	59.2	59.0	60.3	63.2	64.2	53.6	
AVERAGE	59.5	57.7	58.8	58.9	59.8	56.7	55.1	60.2	52.0	51.0	52.7	54.8	55.4	57.2	60.1	59.9	60.5	63.6	64.9	60.1	
NO. DAYS	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
QTR. AVG.	60.6	58.8	59.9	57.1	58.0	54.5	55.2	61.0	52.8	51.4	53.3	56.3	56.5	58.5	61.1	60.6	61.6	64.5	65.8	59.9	
NO. DAYS	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	62	

TABLE 4. AVERAGE CNEL VALUES

Site No.	1st Quarter 2017	2nd Quarter 2017	3rd Quarter 2017	4th Quarter 2017	4 Quarter Average
1	63.3	62.2	61.6	60.6	62.0
2	59.0	59.6	59.6	58.8	59.2
3	60.0	60.6	60.8	59.9	60.3
4	57.4	57.2	56.0	57.1	57.0
5	57.8	57.4	55.8	58.0	57.3
6	55.1	55.8	53.0	54.5	54.7
7	55.4	57.3	56.1	55.2	56.1
9	61.4	61.7	62.1	61.0	61.5
10	53.2	53.2	54.1	52.8	53.4
11	52.8	52.5	51.6	51.4	52.1
12	54.4	53.7	53.4	53.3	53.7
13	58.2	58.4	57.5	56.3	57.7
14	56.7	57.4	57.3	56.5	57.0
15	59.4	60.0	59.8	58.5	59.5
16	61.6	62.1	61.9	61.1	61.7
18	61.1	61.4	61.8	60.6	61.3
19	62.3	62.9	62.8	61.6	62.4
20	64.7	65.2	65.4	64.5	65.0
21	66.4	66.6	67.0	65.8	66.5
22	60.9	62.2	58.7	59.9	60.6

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FOURTH QUARTER 2017

AIRCRAFT	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17 2 DAYS									
	AS EMB175		AS B7377		AS CRJ7		AS CRJ		AS B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	28	28	4	4	0	0	0	0	17	17
EVENING	14	14	0	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	42	42	4	4	0	0	0	0	17	17

	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17									
	US A319		US A320		US B7372		US B7373		US CRJ	
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17									
	US CRJ7		US CRJ9		AA MD80		WN B7373		WN B7375	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	12	14	0	0	0	0	13	12
EVENING	0	0	0	5	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	19	19	0	0	0	0	13	13

	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17									
	WN B7377		WN B7378		UA A320		UA A319		UA B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	292	271	14	7	3	3	5	4	12	0
EVENING	66	87	0	7	5	5	0	1	1	13
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	358	358	14	14	8	8	5	5	13	13

	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17									
	UA B757		UA RJ		UA CRJ7		FE A300		FE A310	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	13	13	0	0	0	0	2	7
EVENING	0	0	0	0	0	0	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	13	13	0	0	0	0	11	11

	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17									
	UPS A300		UPS B757		DL B752		DL CRJ		DL CRJ7	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 10/1/17 to 10/2/17						TOTALS	
	DL CRJ9		B6 A320		FW2 A319		DEP	ARR
	DEP	ARR	DEP	ARR	DEP	ARR		
DAY	4	5	0	0	0	0	437	410
EVENING	1	0	7	7	0	0	114	140
NIGHT	0	0	0	0	0	0	7	8
TOTAL	5	5	7	7	0	0	558	558

**Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI
FLIGHTS FOR THE FOURTH QUARTER 2017**

AIRCRAFT	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17 2 DAYS									
	AS EMB175	AS B7377	AS CRJ7	AS CRJ	AS B7378					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	28	28	4	4	0	0	0	0	17	17
EVENING	14	14	0	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	42	42	4	4	0	0	0	0	17	17

	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17									
	US A319	US A320	US B7372	US B7373	US CRJ					
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17									
	US CRJ7	US CRJ9	AA MD80	WN B7373	WN B7375					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	12	14	0	0	0	0	13	12
EVENING	0	0	0	5	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	19	19	0	0	0	0	13	13

	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17									
	WN B7377	WN B7378	UA A320	UA A319	UA B7378					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	292	271	14	7	3	3	5	4	12	0
EVENING	66	87	0	7	5	5	0	1	1	13
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	358	358	14	14	8	8	5	5	13	13

	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17									
	UA B757	UA RJ	UA CRJ7	FE A300	FE A310					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	13	13	0	0	0	0	2	7
EVENING	0	0	0	0	0	0	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	13	13	0	0	0	0	11	11

	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17									
	UPS A300	UPS B757	DL B752	DL CRJ	DL CRJ7					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 10/3/17 to 10/4/17									
	DL CRJ9	B6 A320	FW2 A319						TOTALS	
	DEP	ARR	DEP	ARR	DEP	ARR			DEP	ARR
DAY	4	5	0	0	0	0			437	410
EVENING	1	0	7	7	0	0			114	140
NIGHT	0	0	0	0	0	0			7	8
TOTAL	5	5	7	7	0	0			558	558

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FOURTH QUARTER 2017

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17 3 DAYS										
AIRCRAFT	AS EMB175		AS B7377		AS CRJ7		AS CRJ		AS B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	28	28	4	4	0	0	0	0	17	17
EVENING	14	14	0	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	42	42	4	4	0	0	0	0	17	17

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17										
	US A319		US A320		US B7372		US B7373		US CRJ	
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17										
	US CRJ7		US CRJ9		AA MD80		WN B7373		WN B7375	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	14	14	0	0	0	0	13	12
EVENING	0	0	0	7	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	21	21	0	0	0	0	13	13

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17										
	WN B7377		WN B7378		UA A320		UA A319		UA B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	292	271	14	7	3	3	5	4	12	0
EVENING	66	87	0	7	5	5	0	1	1	13
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	358	358	14	14	8	8	5	5	13	13

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17										
	UA B757		UA RJ		UA CRJ7		FE A300		FE A310	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	13	13	0	0	0	0	2	7
EVENING	0	0	0	0	0	0	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	13	13	0	0	0	0	11	11

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17										
	UPS A300		UPS B757		DL B752		DL CRJ		DL CRJ7	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

SCHEDULE IN EFFECT FROM 10/5/17 to 11/3/17										
	DL CRJ9		B6 A320		FW2 A319		TOTALS			
	DEP	ARR	DEP	ARR	DEP	ARR	DEP		ARR	
DAY	4	5	0	0	0	0	439		410	
EVENING	1	0	7	7	0	0	114		142	
NIGHT	0	0	0	0	0	0	7		8	
TOTAL	5	5	7	7	0	0	560		560	

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE THIRD QUARTER 2017

AIRCRAFT	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17 12 DAYS									
	AS EMB175		AS B7377		AS CRJ7		AS CRJ		AS B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	33	33	3	3	14	14	0	0	18	18
EVENING	7	7	0	0	7	7	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	40	40	3	3	21	21	0	0	18	18

	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17									
	US A319		US A320		US B7372		US B7373		US CRJ	
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17									
	US CRJ7		US CRJ9		AA MD80		WN B7373		WN B7375	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	14	14	0	0	0	0	19	12
EVENING	0	0	0	7	0	0	0	0	7	14
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	21	21	0	0	0	0	26	26

	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17									
	WN B7377		WN B7378		UA A320		UA A319		UA B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	308	282	0	0	0	0	0	0	14	7
EVENING	51	77	0	0	0	0	0	0	0	7
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	359	359	0	0	0	0	0	0	14	14

	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17									
	UA B757		UA RJ		UA CRJ7		FE A300		FE A310	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	7	7	1	1	0	0	2	7
EVENING	0	0	7	7	0	0	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	14	14	1	1	0	0	11	11

	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17									
	UPS A300		UPS B757		DL B752		DL CRJ		DL CRJ7	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 8/5/17 to 8/16/17									
	DL CRJ9		B6 A320		FW2 A319		TOTALS			
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	4	5	0	0	0	0	455	428		
EVENING	1	0	7	7	0	0	107	133		
NIGHT	0	0	0	0	0	0	7	8		
TOTAL	5	5	7	7	0	0	569	569		

**Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI
FLIGHTS FOR THE FOURTH QUARTER 2017**

AIRCRAFT	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17 1 DAYS									
	AS EMB175	AS B7377	AS CRJ7	AS CRJ	AS B7378					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	28	28	4	4	0	0	0	0	17	17
EVENING	14	14	0	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	42	42	4	4	0	0	0	0	17	17

	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17									
	US A319	US A320	US B7372	US B7373	US CRJ					
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17									
	US CRJ7	US CRJ9	AA MD80	WN B7373	WN B7375					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	14	14	0	0	0	0	13	12
EVENING	0	0	0	7	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	21	21	0	0	0	0	13	13

	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17									
	WN B7377	WN B7378	UA A320	UA A319	UA B7378					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	292	271	14	7	3	3	5	4	12	0
EVENING	66	87	0	7	5	5	0	1	1	13
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	358	358	14	14	8	8	5	5	13	13

	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17									
	UA B757	UA RJ	UA CRJ7	FE A300	FE A310					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	13	13	0	0	0	0	2	7
EVENING	0	0	0	0	0	0	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	13	13	0	0	0	0	11	11

	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17									
	UPS A300	UPS B757	DL B752	DL CRJ	DL CRJ7					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 11/4/17 to 11/4/17						TOTALS	
	DL CRJ9	B6 A320	FW2 A319				DEP	ARR
	DEP	ARR	DEP	ARR	DEP	ARR		
DAY	4	5	0	0	0	0	439	410
EVENING	1	0	7	7	0	0	114	142
NIGHT	0	0	0	0	0	0	7	8
TOTAL	5	5	7	7	0	0	560	560

**Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI
FLIGHTS FOR THE FOURTH QUARTER 2017**

AIRCRAFT	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17 14 DAYS									
	AS EMB175	AS B7377	AS CRJ7	AS CRJ	AS B7378					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	28	28	4	4	0	0	0	0	17	17
EVENING	14	14	0	0	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	42	42	4	4	0	0	0	0	17	17

	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17									
	US A319	US A320	US B7372	US B7373	US CRJ					
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17									
	US CRJ7	US CRJ9	AA MD80	WN B7373	WN B7375					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	12	14	0	0	0	0	13	12
EVENING	0	0	0	5	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	19	19	0	0	0	0	13	13

	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17									
	WN B7377	WN B7378	UA A320	UA A319	UA B7378					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	301	280	0	0	7	0	13	7	0	0
EVENING	64	85	0	0	0	7	0	6	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	365	365	0	0	7	7	13	13	0	0

	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17									
	UA B757	UA RJ	UA CRJ7	FE A300	FE A310					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	14	14	0	0	0	0	2	7
EVENING	0	0	0	0	6	6	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	14	14	6	6	0	0	11	11

	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17									
	UPS A300	UPS B757	DL B752	DL CRJ	DL CRJ7					
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 11/5/17 to 11/18/17						TOTALS	
	DL CRJ9	B6 A320	FW2 A319				DEP	ARR
	DEP	ARR	DEP	ARR	DEP	ARR		
DAY	4	5	0	0	0	0	433	413
EVENING	1	0	7	7	0	0	112	131
NIGHT	0	0	0	0	0	0	7	8
TOTAL	5	5	7	7	0	0	552	552

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE FOURTH QUARTER 2017

AIRCRAFT	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17 14 DAYS									
	AS EMB175		AS B7377		AS CRJ7		AS CRJ		AS B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	14	14	4	2	0	0	0	0	31	26
EVENING	13	13	0	2	0	0	0	0	0	5
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	27	27	4	4	0	0	0	0	31	31

	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17									
	US A319		US A320		US B7372		US B7373		US CRJ	
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17									
	US CRJ7		US CRJ9		AA MD80		WN B7373		WN B7375	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	12	14	0	0	0	0	13	12
EVENING	0	0	0	5	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	19	19	0	0	0	0	13	13

	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17									
	WN B7377		WN B7378		UA A320		UA A319		UA B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	301	280	0	0	7	0	13	7	0	0
EVENING	64	85	0	0	0	7	0	6	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	365	365	0	0	7	7	13	13	0	0

	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17									
	UA B757		UA RJ		UA CRJ7		FE A300		FE A310	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	14	14	0	0	0	0	2	7
EVENING	0	0	0	0	6	6	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	14	14	6	6	0	0	11	11

	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17									
	UPS A300		UPS B757		DL B752		DL CRJ		DL CRJ7	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 11/19/17 to 12/2/17						TOTALS	
	DL CRJ9		B6 A320		FW2 A319		DEP	ARR
	DEP	ARR	DEP	ARR	DEP	ARR		
DAY	4	5	0	0	0	0	433	406
EVENING	1	0	7	7	0	0	111	137
NIGHT	0	0	0	0	0	0	7	8
TOTAL	5	5	7	7	0	0	551	551

**Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI
FLIGHTS FOR THE FOURTH QUARTER 2017**

AIRCRAFT	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17 29 DAYS									
	AS EMB175		AS B7377		AS CRJ7		AS CRJ		AS B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	14	14	4	0	0	0	0	0	31	31
EVENING	6	6	0	4	0	0	0	0	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	20	20	4	4	0	0	0	0	31	31

	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17									
	US A319		US A320		US B7372		US B7373		US CRJ	
	DEP	ARR	DEP	ARR	DEP	ARR	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	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0

	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17									
	US CRJ7		US CRJ9		AA MD80		WN B7373		WN B7375	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	12	14	0	0	0	0	13	12
EVENING	0	0	0	5	0	0	0	0	0	1
NIGHT	0	0	7	0	0	0	0	0	0	0
TOTAL	0	0	19	19	0	0	0	0	13	13

	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17									
	WN B7377		WN B7378		UA A320		UA A319		UA B7378	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	301	280	0	0	7	0	13	7	0	0
EVENING	64	85	0	0	0	7	0	6	0	0
NIGHT	0	0	0	0	0	0	0	0	0	0
TOTAL	365	365	0	0	7	7	13	13	0	0

	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17									
	UA B757		UA RJ		UA CRJ7		FE A300		FE A310	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	0	0	14	14	0	0	0	0	2	7
EVENING	0	0	0	0	6	6	0	0	9	0
NIGHT	0	0	0	0	0	0	0	0	0	4
TOTAL	0	0	14	14	6	6	0	0	11	11

	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17									
	UPS A300		UPS B757		DL B752		DL CRJ		DL CRJ7	
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	3	4	0	0	0	0	0	0	15	21
EVENING	5	0	0	0	0	0	0	0	6	0
NIGHT	0	4	0	0	0	0	0	0	0	0
TOTAL	8	8	0	0	0	0	0	0	21	21

	SCHEDULE IN EFFECT FROM 12/3/17 to 12/31/17									
	DL CRJ9		B6 A320		FW2 A319		TOTALS			
	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR	DEP	ARR
DAY	4	5	0	0	0	0	433	409		
EVENING	1	0	7	7	0	0	104	127		
NIGHT	0	0	0	0	0	0	7	8		
TOTAL	5	5	7	7	0	0	544	544		

TABLE 5. (CONTINUED)

FOURTH QUARTER 2017

PERIOD TOTALS FOR
AIR CARRIERS AND AIR TAXIS

AIR CARRIERS

	<u>DEP</u>	<u>ARR</u>
DAY	5170	4833
EVE	1134	1458
NIGHT	92	105
TOTAL	6396	6396

AIR TAXIS

	<u>DEP</u>	<u>ARR</u>
DAY	730	730
EVE	313	313
NIGHT	0	0
TOTAL	1043	1043

AIR CARRIERS AND AIR TAXIS

	<u>DEP</u>	<u>ARR</u>
DAY	5900	5563
EVE	1447	1771
NIGHT	92	105
TOTAL	7439	7439

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 578.7 and 235.6 acres, respectively. The areas of incompatible land uses enclosed by the contours were then computed. The incompatible land use areas were 7.90 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 221 parcels of land. Those 221 parcels total 33.67 acres. One of the 221 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 54 single family residential parcels, totaling approximately 7.63 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 59 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 159 and 5, respectively.

REFERENCES

1. 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.
3. "Quarterly Noise Monitoring at Bob Hope Airport, First Quarter 2017", AAAI Report 1512.
4. "Quarterly Noise Monitoring at Burbank Airport, Second Quarter 2017", AAAI Report 1513.
5. "Quarterly Noise Monitoring at Burbank Airport, Third Quarter 2017", AAAI Report 1514.

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.

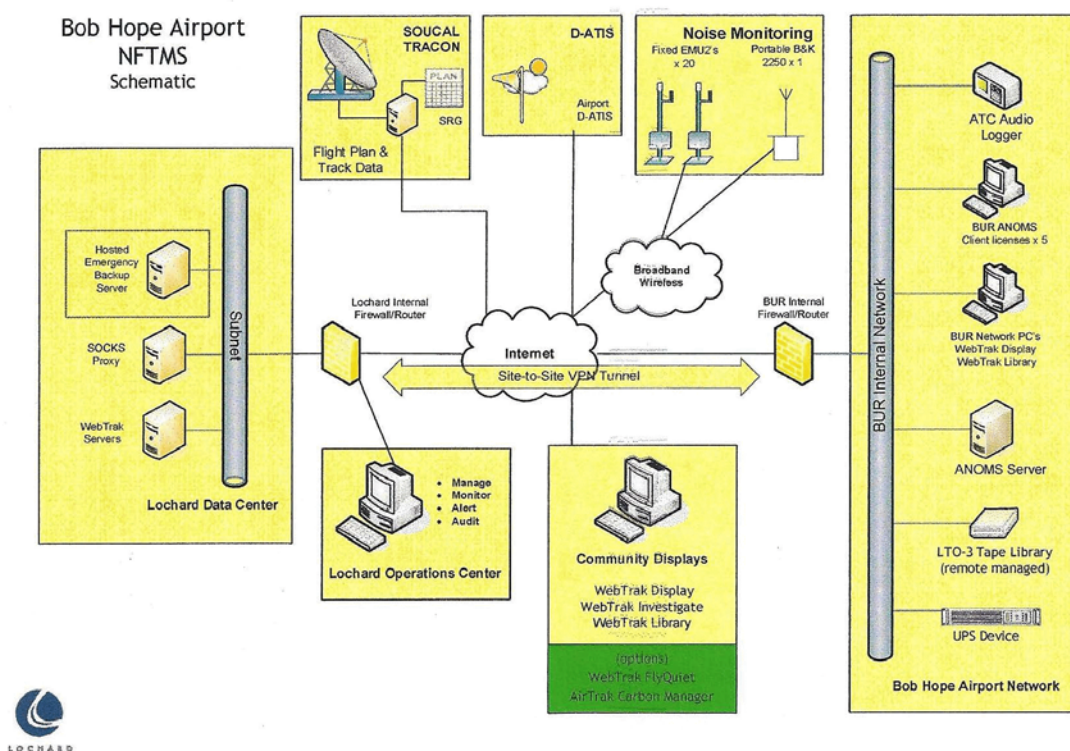


Figure A-1. Permanent Noise Monitor System Schematic

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	0.1
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



Devices Report

RMT Calibration Results

Bob Hope Airport

Start Date: 04-Jan-2013

End Date: 31-Jan-2013

Monitor 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