

BOB HOPE AIRPORT



QUARTERLY NOISE MONITORING THIRD QUARTER 2013

AAAI REPORT 1425



December 2013

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AAAI Report 1425
AAAI Project 88018

QUARTERLY NOISE MONITORING
AT BOB HOPE AIRPORT
THIRD QUARTER 2013

DECEMBER 2013

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**QUARTERLY NOISE MONITORING AT BOB HOPE AIRPORT
THIRD QUARTER 2013**

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 third quarter of 2013. Noise impact boundaries for 65 dB and 70 dB are shown based on these measurements and measurements obtained during the fourth quarter 2012, and first and second quarter 2013

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

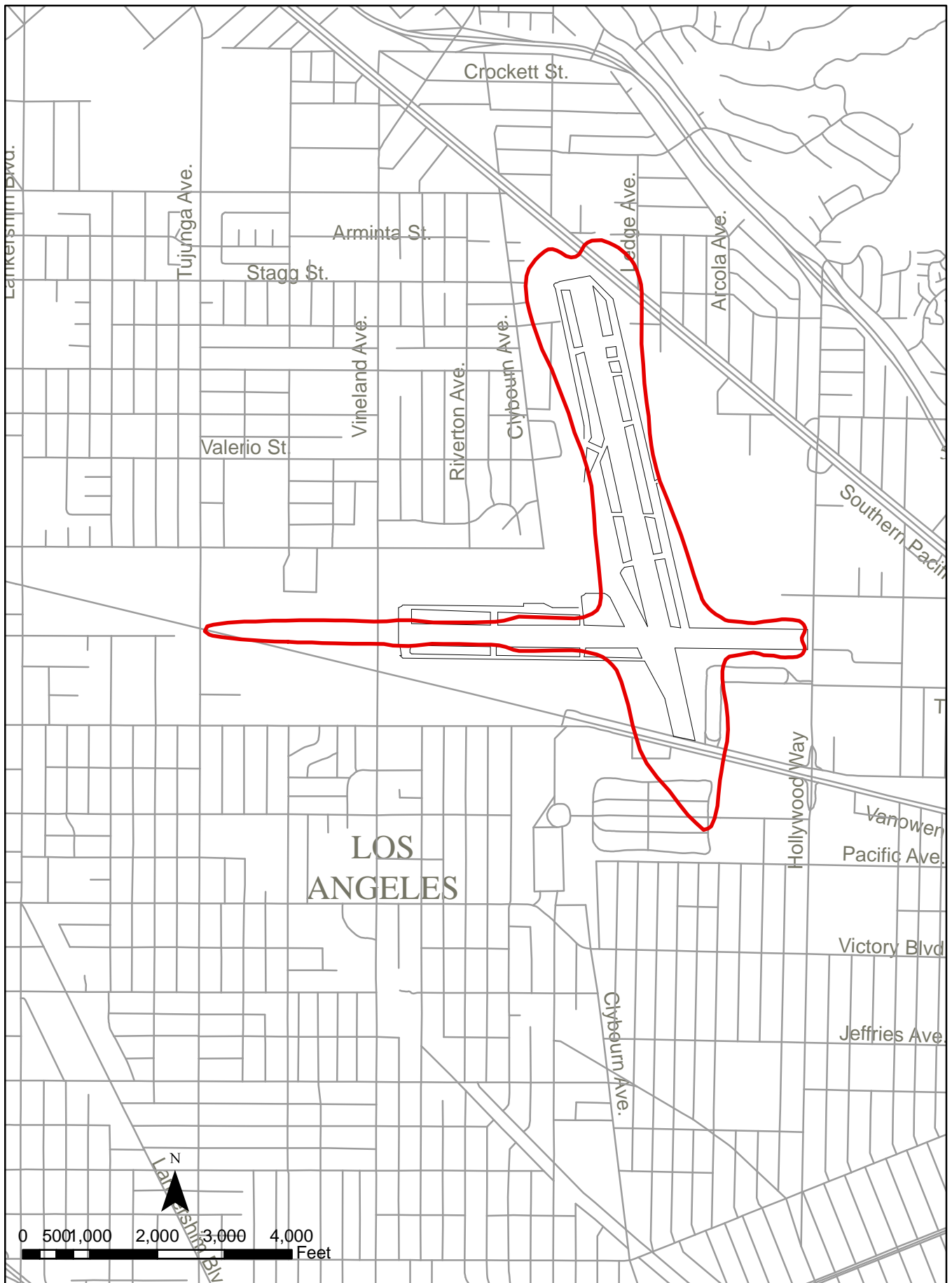


FIGURE 1 - BOB HOPE AIRPORT 70 dB CNEL CONTOUR 3rd Quarter 2013

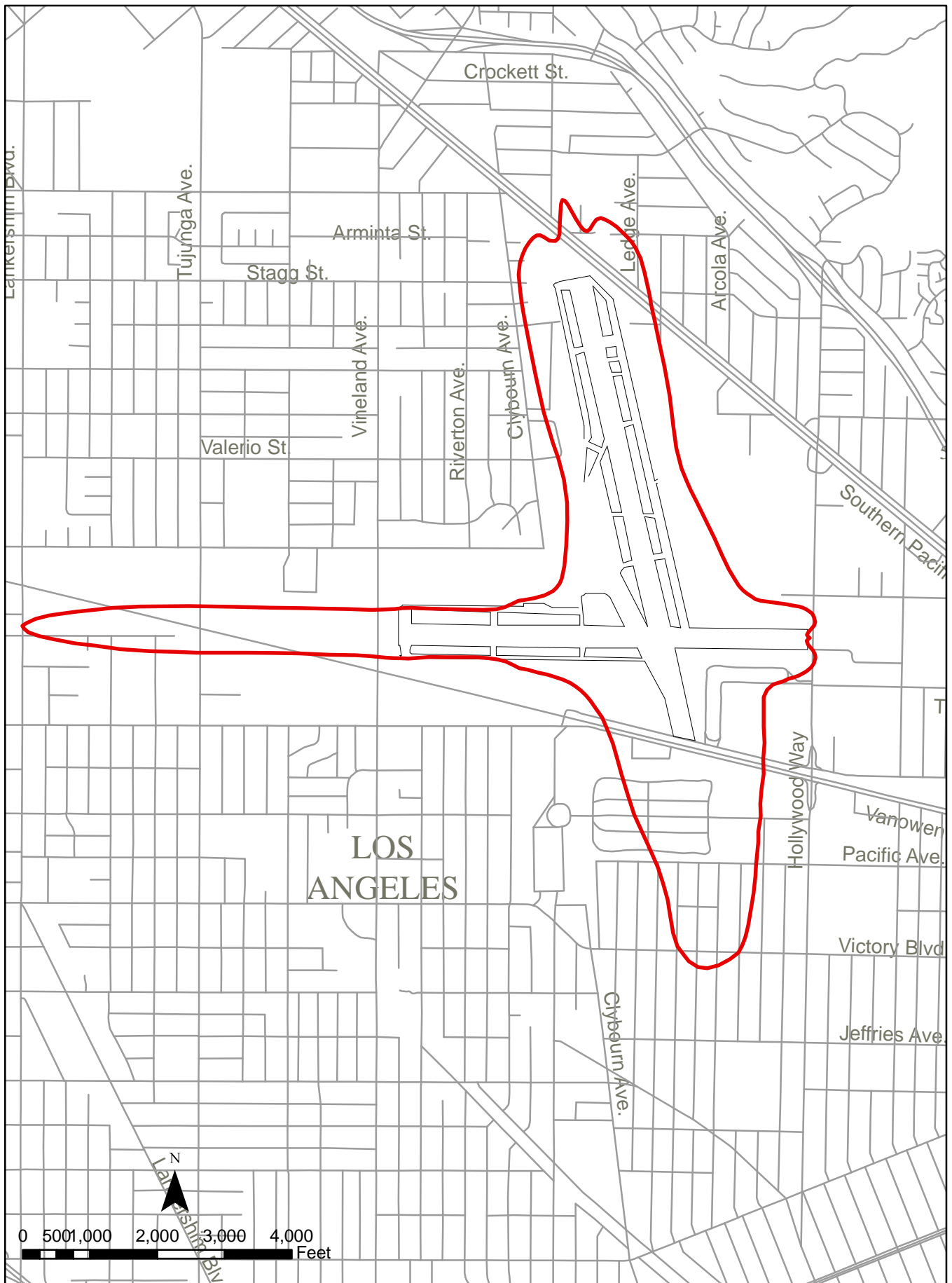


FIGURE 2 - BOB HOPE AIRPORT 65 dB CNEL CONTOUR 3rd Quarter 2013

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.

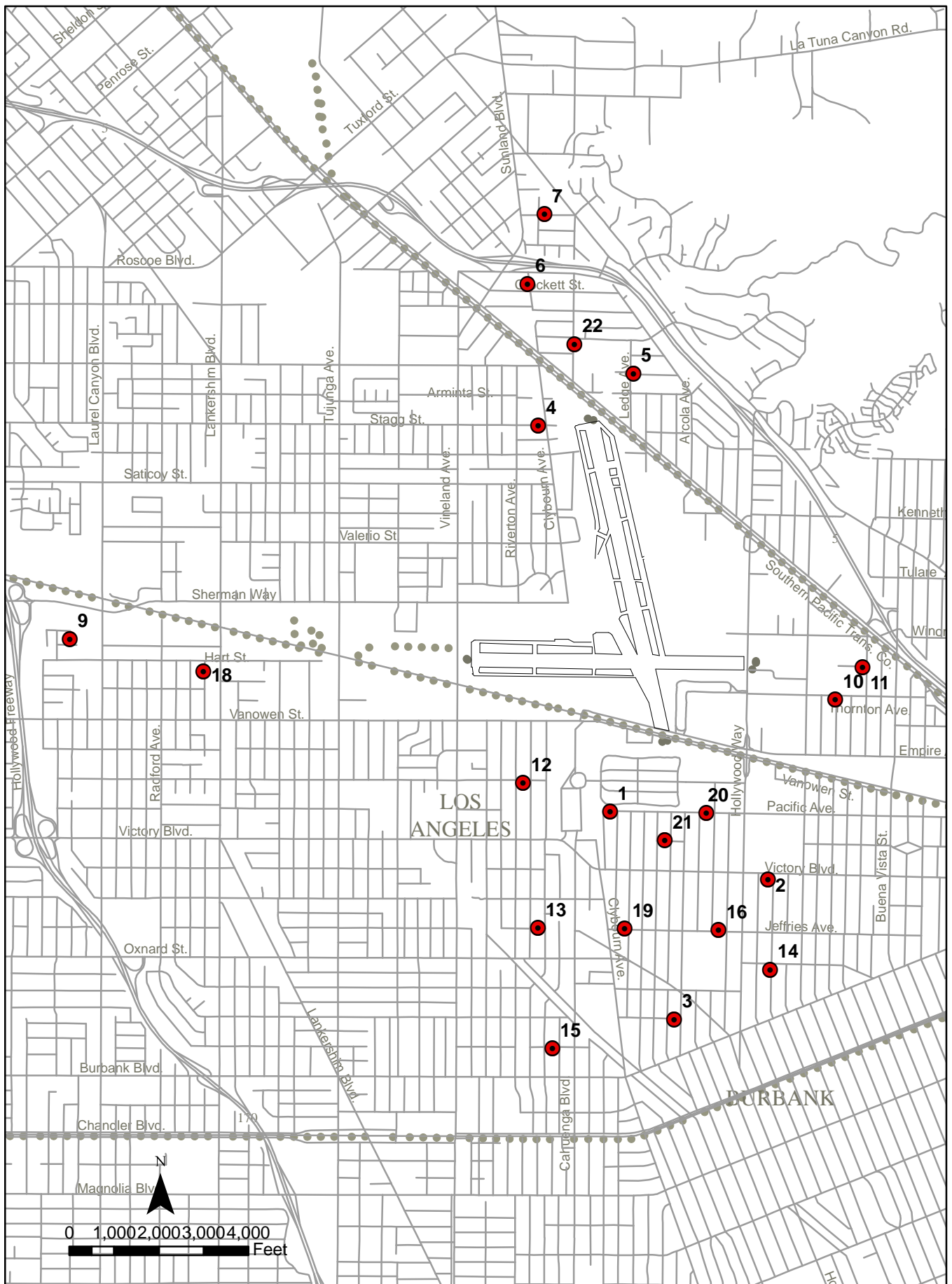


FIGURE 3 - BOB HOPE AIRPORT NOISE MONITOR LOCATIONS

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. Note that there are no annual average values available yet at the four new sites 19, 20, 21, and 22.

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 July 2008 through June 2009. This replaced the previous master set of CNEL Contours which were based on operations for the 12-month period from January 2007 through December 2007.

TABLE 1. CNEL VALUES FOR JULY 2013

| RMS NUMBER | | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 20 | 21 | 22 | |
| 07/01/00 | 61.7 | 58.0 | 58.9 | 55.3 | 53.3 | 49.0 | 52.0 | 60.8 | 52.4 | 51.1 | 52.6 | 57.8 | 54.9 | 58.0 | 60.0 | 60.2 | 61.4 | 63.9 | 65.5 | 58.9 | |
| 07/02/00 | 61.7 | 59.7 | 61.1 | 58.3 | 54.0 | 56.2 | 56.0 | 62.5 | 55.8 | 54.2 | 53.6 | 58.0 | 57.2 | 59.1 | 62.2 | 62.0 | 62.1 | 65.2 | 66.7 | 62.0 | |
| 07/03/00 | 61.8 | 59.2 | 59.9 | 59.1 | 54.7 | 57.6 | 57.2 | 63.4 | 56.0 | 54.2 | 53.4 | 58.0 | 56.6 | 59.2 | 61.2 | 63.7 | 62.0 | 65.0 | 66.4 | 63.1 | |
| 07/04/00 | 56.9 | 53.8 | 54.4 | 60.4 | 52.8 | 56.7 | 69.7 | 58.6 | 49.5 | 51.4 | 48.5 | 53.9 | 51.1 | 54.4 | 56.1 | 58.1 | 56.5 | 59.4 | 60.8 | 57.1 | |
| 07/05/00 | 61.7 | 59.1 | 60.6 | 54.1 | 53.7 | 46.1 | 51.9 | 61.9 | 52.4 | 51.3 | 53.7 | 57.6 | 56.6 | 58.5 | 61.6 | 60.5 | 61.4 | 65.1 | 66.3 | 57.8 | |
| 07/06/00 | 60.2 | 56.7 | 57.2 | 55.1 | 51.9 | 49.0 | 51.0 | 61.2 | 50.0 | 52.8 | 51.7 | 57.2 | 52.7 | 58.2 | 57.9 | 59.6 | 60.9 | 62.5 | 64.5 | 57.1 | |
| 07/07/00 | 59.7 | 56.9 | 57.6 | 54.5 | 48.7 | 44.7 | 52.0 | 62.0 | 50.7 | 47.4 | 51.3 | 56.1 | 54.5 | 57.5 | 59.5 | 62.1 | 60.6 | 62.9 | 64.6 | 58.6 | |
| 07/08/00 | 61.4 | 59.7 | 61.4 | 55.9 | 52.9 | 50.3 | 52.7 | 61.5 | 52.8 | 53.1 | 54.7 | 57.6 | 57.4 | 60.0 | 62.2 | 61.0 | 62.8 | 65.8 | 67.2 | 59.1 | |
| 07/09/00 | 62.1 | 59.8 | 60.3 | 60.1 | 53.3 | 54.9 | 56.6 | 62.5 | 55.8 | 50.6 | 58.7 | 57.9 | 56.3 | 59.1 | 61.0 | 62.1 | 62.0 | 64.4 | 66.0 | 61.7 | |
| 07/10/00 | 62.6 | 59.4 | 60.0 | 57.5 | 56.0 | 54.5 | 56.2 | 63.9 | 61.5 | 53.9 | 55.2 | 58.7 | 56.9 | 60.0 | 61.3 | 62.9 | 62.5 | 65.1 | 66.7 | 61.0 | |
| 07/11/00 | 61.9 | 59.2 | 60.8 | 56.6 | 53.3 | 55.6 | 54.3 | 63.1 | 53.0 | 52.5 | 53.1 | 59.1 | 56.6 | 60.2 | 61.5 | 62.4 | 62.7 | 65.2 | 66.8 | 48.0 | |
| 07/12/00 | 61.4 | 59.9 | 61.1 | 57.3 | 56.0 | 51.9 | 54.5 | 62.4 | 53.2 | 53.6 | 53.7 | 57.6 | 57.1 | 59.5 | 62.5 | 62.0 | 62.0 | 65.6 | 66.5 | 60.8 | |
| 07/13/00 | 60.1 | 56.8 | 58.4 | 57.4 | 54.7 | 50.8 | 52.1 | 60.2 | 51.5 | 49.2 | 51.6 | 57.4 | 54.3 | 58.1 | 58.9 | 59.4 | 60.0 | 61.6 | 63.1 | 56.8 | |
| 07/14/00 | 62.5 | 59.1 | 60.3 | 59.3 | 53.4 | 51.0 | 53.9 | 61.7 | 52.3 | 49.2 | 53.9 | 58.9 | 56.4 | 59.7 | 61.5 | 60.9 | 62.3 | 64.9 | 66.6 | 60.2 | |
| 07/15/00 | 62.4 | 59.4 | 59.8 | 60.8 | 55.5 | 50.1 | 54.9 | 62.4 | 52.2 | 53.5 | 55.2 | 58.8 | 56.1 | 60.5 | 61.1 | 61.9 | 63.4 | 65.0 | 67.0 | 60.8 | |
| 07/16/00 | 61.9 | 57.9 | 58.3 | 56.5 | 55.9 | 55.7 | 56.9 | 62.9 | 53.2 | 51.9 | 53.5 | 59.4 | 54.9 | 59.1 | 59.3 | 62.6 | 61.5 | 63.6 | 65.3 | 61.8 | |
| 07/17/00 | 61.5 | 58.9 | 59.2 | 57.2 | 55.0 | 54.7 | 56.4 | 62.9 | 53.6 | 55.2 | 54.3 | 58.3 | 55.9 | 59.0 | 60.8 | 62.0 | 62.0 | 64.6 | 66.0 | 61.3 | |
| 07/18/00 | 62.6 | 59.3 | 60.4 | 59.5 | 54.9 | 60.7 | 57.2 | 63.1 | 54.5 | 54.5 | 54.3 | 59.2 | 56.5 | 60.0 | 61.1 | 62.1 | 63.1 | 65.1 | 66.7 | 62.8 | |
| 07/19/00 | 63.0 | 60.6 | 62.0 | 59.5 | 57.1 | 53.1 | 54.0 | 64.1 | 58.8 | 59.4 | 55.1 | 59.3 | 58.1 | 60.9 | 63.1 | 63.8 | 63.5 | 66.1 | 67.9 | 59.5 | |
| 07/20/00 | 61.5 | 58.5 | 59.8 | 57.2 | 54.3 | 50.7 | 55.8 | 61.8 | 53.3 | 49.9 | 56.7 | 58.4 | 56.4 | 59.3 | 61.7 | 60.7 | 62.1 | 64.9 | 65.5 | 61.4 | |
| 07/21/00 | 61.8 | 59.3 | 60.7 | 58.2 | 53.2 | 50.4 | 52.4 | 61.6 | 53.5 | 50.2 | 52.8 | 58.9 | 56.5 | 60.3 | 61.7 | 62.4 | 63.1 | 65.1 | 66.9 | 58.2 | |
| 07/22/00 | 62.4 | 58.4 | 59.2 | 57.7 | 57.7 | 53.6 | 58.2 | 61.0 | 54.6 | 53.0 | 53.8 | 59.4 | 55.1 | 60.1 | 60.7 | 60.6 | 62.7 | 64.6 | 66.2 | 63.5 | |
| 07/23/00 | 62.8 | 60.0 | 61.0 | 59.0 | 56.7 | 54.1 | 55.6 | 62.9 | 53.9 | 54.8 | 54.8 | 59.5 | 57.6 | 60.6 | 62.2 | 62.3 | 63.3 | 65.6 | 67.2 | 60.8 | |
| 07/24/00 | 63.4 | 60.5 | 61.7 | 59.3 | 54.6 | 55.4 | 54.5 | 64.5 | 53.9 | 53.8 | 54.6 | 59.7 | 58.3 | 60.5 | 62.5 | 63.5 | 63.4 | 66.0 | 67.5 | 61.2 | |
| 07/25/00 | 63.6 | 61.1 | 61.4 | 60.9 | 56.6 | 54.5 | 57.4 | 63.7 | 54.2 | 51.7 | 55.1 | 60.1 | 58.3 | 60.6 | 63.1 | 63.2 | 63.5 | 66.4 | 68.0 | 62.5 | |
| 07/26/00 | 62.8 | 60.4 | 61.6 | 59.9 | 58.3 | 53.7 | 54.9 | 64.0 | 55.6 | 55.0 | 54.7 | 59.1 | 57.6 | 61.3 | 62.8 | 63.2 | 64.2 | 66.2 | 67.9 | 59.8 | |
| 07/27/00 | 61.6 | 57.9 | 59.0 | 57.6 | 56.8 | 60.7 | 55.1 | 60.8 | 53.7 | 54.6 | 53.3 | 58.8 | 55.0 | 59.4 | 60.7 | 59.9 | 62.2 | 64.4 | 65.9 | 61.0 | |
| 07/28/00 | 61.8 | 58.5 | 60.0 | 56.8 | 54.3 | 50.9 | 50.4 | 62.8 | 49.3 | 45.7 | 53.3 | 58.8 | 56.1 | 59.3 | 60.9 | 61.9 | 62.2 | 64.8 | 66.2 | 57.0 | |
| 07/29/00 | 63.7 | 61.7 | 61.7 | 57.3 | 56.8 | 51.2 | 54.1 | 62.4 | 53.3 | 52.9 | 55.5 | 60.1 | 58.0 | 61.4 | 62.8 | 62.4 | 64.5 | 66.9 | 68.3 | 60.0 | |
| 07/30/00 | 62.7 | 59.3 | 60.3 | 59.0 | 56.3 | 53.7 | 56.4 | 62.9 | 54.1 | 53.8 | 54.5 | 60.4 | 56.5 | 61.2 | 60.9 | 62.7 | 63.5 | 64.8 | 66.7 | 61.8 | |
| 07/31/00 | 63.2 | 58.6 | 59.2 | 56.3 | 57.0 | 53.9 | 55.8 | 63.8 | 53.1 | 53.4 | 54.5 | 59.9 | 56.1 | 59.8 | 60.4 | 63.2 | 62.1 | 64.5 | 66.0 | 60.5 | |
| AVERAGE | 62.0 | 59.2 | 60.2 | 58.2 | 55.2 | 54.5 | 57.9 | 62.5 | 54.4 | 53.3 | 54.3 | 58.7 | 56.4 | 59.7 | 61.3 | 62.0 | 62.4 | 64.9 | 66.4 | 60.5 | |
| NO. DAYS | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | |

TABLE 2. CNEL VALUES FOR AUGUST 2013

| RMS NUMBER | | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Date/Time: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 20 | 21 | 22 | |
| 08/01/00 | 62.7 | 59.2 | 60.0 | 56.7 | 56.4 | 56.3 | 58.8 | 63.7 | 54.8 | 55.9 | 53.5 | 59.7 | 56.2 | 60.2 | 61.3 | 62.9 | 63.0 | 65.3 | 66.8 | 64.1 | |
| 08/02/00 | 62.3 | 59.4 | 61.0 | 57.6 | 56.2 | 56.0 | 57.0 | 63.0 | 53.2 | 53.9 | 53.8 | 58.5 | 56.7 | 59.5 | 62.0 | 62.4 | 62.6 | 65.1 | 67.0 | 61.9 | |
| 08/03/00 | 60.7 | 57.4 | 59.3 | 63.9 | 53.5 | 49.6 | 51.4 | 60.2 | 51.8 | 51.4 | 52.0 | 56.8 | 55.0 | 57.9 | 60.0 | 59.3 | 60.4 | 63.1 | 65.1 | 57.9 | |
| 08/04/00 | 61.7 | 58.9 | 59.4 | 57.6 | 51.9 | 52.0 | 50.7 | 62.0 | 54.4 | 50.8 | 52.6 | 57.3 | 55.7 | 59.3 | 60.4 | 61.2 | 61.7 | 64.2 | 65.9 | 56.6 | |
| 08/05/00 | 61.2 | 57.9 | 58.1 | 56.3 | 53.2 | 51.3 | 53.3 | 61.0 | 52.3 | 52.0 | 52.8 | 57.8 | 54.4 | 58.1 | 59.2 | 43.5 | 60.7 | 63.3 | 64.8 | 58.8 | |
| 08/06/00 | 62.7 | 60.0 | 60.4 | 57.4 | 55.0 | 55.5 | 55.7 | 63.7 | 53.5 | 51.5 | 54.8 | 58.7 | 56.7 | 60.2 | 61.7 | 63.0 | 62.9 | 65.4 | 67.0 | 59.7 | |
| 08/07/00 | 62.3 | 59.3 | 59.7 | 57.1 | 58.9 | 55.6 | 57.2 | 62.9 | 52.7 | 52.2 | 54.2 | 60.2 | 56.4 | 61.3 | 61.2 | 62.4 | 63.2 | 65.3 | 66.8 | 62.4 | |
| 08/08/00 | 63.3 | 59.4 | 60.6 | 58.0 | 54.4 | 55.3 | 57.5 | 63.7 | 54.1 | 52.6 | 55.7 | 60.4 | 56.9 | 60.5 | 61.3 | 63.1 | 63.1 | 65.1 | 66.7 | 62.8 | |
| 08/09/00 | 61.9 | 59.7 | 60.4 | 57.6 | 53.9 | 53.8 | 53.3 | 64.5 | 54.1 | 53.9 | 53.8 | 58.8 | 56.8 | 59.9 | 61.6 | 63.0 | 62.9 | 65.0 | 66.6 | 60.3 | |
| 08/10/00 | 59.9 | 57.6 | 58.8 | 54.4 | 53.8 | 50.3 | 50.4 | 54.7 | 50.6 | 48.2 | 51.2 | 56.1 | 56.2 | 57.0 | 60.2 | 59.6 | 60.0 | 62.9 | 64.5 | 57.8 | |
| 08/11/00 | 61.8 | 58.5 | 59.8 | 58.4 | 55.6 | 51.0 | 52.6 | 61.5 | 52.5 | 50.0 | 53.3 | 58.9 | 56.2 | 60.7 | 60.7 | 60.9 | 63.2 | 64.7 | 66.7 | 57.1 | |
| 08/12/00 | 62.3 | 59.4 | 63.1 | 58.2 | 54.7 | 51.1 | 55.5 | 62.7 | 54.4 | 54.1 | 54.4 | 59.1 | 57.1 | 59.4 | 61.6 | 61.7 | 62.3 | 65.1 | 66.3 | 61.5 | |
| 08/13/00 | 61.4 | 59.6 | 59.7 | 57.9 | 54.0 | 56.9 | 54.7 | 62.8 | 57.8 | 56.7 | 52.5 | 58.0 | 56.3 | 59.1 | 60.8 | 62.6 | 62.0 | 64.8 | 66.1 | 57.4 | |
| 08/14/00 | 62.0 | 58.8 | 60.3 | 60.0 | 54.8 | 54.4 | 54.8 | 62.4 | 53.7 | 52.4 | 53.2 | 58.0 | 56.1 | 59.7 | 61.2 | 61.9 | 62.6 | 64.8 | 66.4 | 60.2 | |
| 08/15/00 | 61.3 | 59.4 | 60.0 | 59.1 | 56.9 | 54.6 | 55.9 | 63.0 | 53.8 | 53.5 | 52.8 | 58.3 | 56.0 | 59.6 | 60.8 | 62.1 | 62.7 | 64.7 | 66.6 | 61.9 | |
| 08/16/00 | 60.8 | 58.6 | 60.4 | 60.7 | 57.0 | 54.6 | 55.9 | 62.6 | 52.6 | 51.7 | 53.0 | 57.3 | 56.4 | 59.1 | 61.4 | 61.7 | 62.1 | 64.9 | 66.6 | 61.5 | |
| 08/17/00 | 59.1 | 56.6 | 58.0 | 53.4 | 50.4 | 44.4 | 48.4 | 58.1 | 52.6 | 56.2 | 50.4 | 55.7 | 54.1 | 58.3 | 58.9 | 57.8 | 60.0 | 62.4 | 64.0 | 54.9 | |
| 08/18/00 | 61.8 | 58.5 | 59.9 | 56.7 | 50.2 | 48.1 | 51.6 | 62.6 | 51.5 | 49.3 | 52.8 | 58.4 | 55.9 | 59.6 | 60.6 | 62.2 | 62.0 | 64.3 | 65.9 | 57.2 | |
| 08/19/00 | 62.0 | 59.1 | 60.2 | 56.3 | 51.2 | 48.7 | 55.4 | 62.2 | 53.5 | 53.9 | 53.0 | 59.1 | 56.5 | 59.2 | 61.0 | 61.5 | 62.1 | 64.6 | 66.2 | 62.5 | |
| 08/20/00 | 61.1 | 58.3 | 58.9 | 57.9 | 54.5 | 55.5 | 54.5 | 62.7 | 53.6 | 52.2 | 53.2 | 57.6 | 55.7 | 59.2 | 60.4 | 62.2 | 61.9 | 64.1 | 65.8 | 60.2 | |
| 08/21/00 | 61.7 | 59.0 | 59.9 | 57.6 | 54.1 | 54.2 | 55.2 | 63.1 | 53.9 | 52.7 | 53.0 | 57.6 | 56.1 | 58.3 | 60.9 | 62.2 | 61.3 | 64.5 | 65.8 | 61.0 | |
| 08/22/00 | 60.9 | 58.9 | 60.0 | 56.4 | 54.7 | 55.4 | 56.8 | 62.3 | 54.7 | 55.5 | 52.7 | 56.8 | 56.1 | 58.2 | 61.8 | 62.0 | 62.0 | 64.9 | 66.2 | 62.3 | |
| 08/23/00 | 60.9 | 59.8 | 59.7 | 56.3 | 55.0 | 56.2 | 57.5 | 63.4 | 55.0 | 56.1 | 52.5 | 47.4 | 56.5 | 58.8 | 61.3 | 62.4 | 62.1 | 64.9 | 66.4 | 62.5 | |
| 08/24/00 | 60.3 | 57.7 | 58.9 | 57.9 | 57.5 | 48.7 | 52.4 | 59.3 | 54.1 | 51.0 | 53.6 | --- | 54.3 | 60.1 | 59.9 | 58.7 | 62.4 | 63.9 | 66.0 | 64.9 | |
| 08/25/00 | 59.8 | 56.8 | 57.8 | 54.5 | 53.7 | 53.6 | 58.3 | 61.1 | 49.8 | 48.3 | 57.0 | --- | 53.9 | 58.3 | 59.0 | 60.6 | 61.2 | 62.9 | 64.8 | 59.5 | |
| 08/26/00 | 61.1 | 59.0 | 59.4 | 52.4 | 54.2 | 50.8 | 62.1 | 61.4 | 54.1 | 56.6 | 52.5 | --- | 56.7 | 58.8 | 61.0 | 60.9 | 62.0 | 64.6 | 66.0 | 52.3 | |
| 08/27/00 | 60.5 | 58.8 | 59.8 | 57.4 | 54.5 | 54.3 | 56.6 | 62.0 | 55.0 | 57.3 | 52.7 | --- | 56.7 | 58.1 | 61.0 | 61.2 | 61.4 | 64.3 | 65.6 | 62.1 | |
| 08/28/00 | 61.2 | 59.9 | 60.5 | 56.0 | 56.1 | 53.8 | 55.6 | --- | 55.4 | 54.5 | 52.5 | --- | 57.3 | 59.1 | 62.2 | 61.3 | 61.8 | 64.8 | 66.2 | 61.4 | |
| 08/29/00 | 60.9 | 58.9 | 60.5 | 58.4 | 55.8 | 56.0 | 57.5 | 60.9 | 52.3 | 53.9 | 52.9 | --- | 56.0 | 58.6 | 61.3 | 60.8 | 61.8 | 64.4 | 66.1 | 44.3 | |
| 08/30/00 | 61.0 | 58.7 | 59.5 | 54.2 | 55.8 | 54.6 | 56.5 | 62.4 | 54.3 | 53.7 | 53.5 | --- | 56.2 | 58.1 | 60.9 | 62.7 | 61.4 | 64.3 | 65.9 | 61 | |
| 08/31/00 | 57.9 | 55.5 | 57.3 | 52.1 | 50.4 | 49.6 | 53.8 | 57.4 | 52.5 | 56.2 | 49.2 | --- | 53.2 | 55.5 | 58.0 | 57.2 | 58.0 | 61.3 | 62.6 | 44.9 | |
| AVERAGE | 61.4 | 58.8 | 59.9 | 57.7 | 54.9 | 53.8 | 55.9 | 62.2 | 53.8 | 53.8 | 53.3 | 58.1 | 56.0 | 59.2 | 60.9 | 61.5 | 62.0 | 64.4 | 66.0 | 60.6 | |
| NO. DAYS | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 31 | 31 | 31 | 23 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | |

TABLE 3. CNEL VALUES FOR SEPTEMBER 2013

| RMS NUMBER | | | | | | | | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Date | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 20 | 21 | 22 | |
| 09/01/00 | 59.9 | 57.2 | 58.7 | 52.8 | 49.8 | 47.4 | 52.5 | 58.8 | 53.3 | 51.7 | 50.9 | --- | 55.0 | 56.8 | 59.7 | 58.4 | 60.0 | 63.2 | 64.3 | 58.1 | |
| 09/02/00 | 59.1 | 57.3 | 58.8 | 51.7 | 47.9 | 44.9 | 50.8 | 60.5 | 51.2 | 53.7 | 50.3 | --- | 54.8 | 58.0 | 59.8 | 60.2 | 60.8 | 63.1 | 64.9 | 55.9 | |
| 09/03/00 | 60.0 | 58.2 | 59.7 | 54.0 | 53.6 | 54.4 | 53.5 | 60.3 | 54.5 | 55.0 | 51.1 | --- | 56.2 | 57.5 | 60.9 | 59.8 | 60.7 | 64.2 | 65.5 | 60.8 | |
| 09/04/00 | 60.8 | 59.2 | 59.8 | 54.8 | 52.9 | 54.2 | 58.5 | 62.6 | 54.0 | 51.1 | 52.4 | 57.5 | 57.6 | 59.6 | 61.9 | 63.6 | 61.5 | 64.8 | 65.9 | 58.9 | |
| 09/05/00 | 60.3 | 59.1 | 60.3 | 55.0 | 50.5 | 53.1 | 54.6 | 62.4 | 52.0 | 51.7 | 51.9 | 56.3 | 56.1 | 58.3 | 61.1 | 61.2 | 61.5 | 64.5 | 65.7 | 61.2 | |
| 09/06/00 | 61.2 | 58.9 | 59.4 | 53.6 | 52.6 | 51.5 | 54.0 | 60.9 | 54.5 | 54.4 | 52.1 | 56.7 | 56.0 | 58.2 | 60.9 | 61.1 | 61.8 | 64.3 | 65.9 | 58.7 | |
| 09/07/00 | 58.1 | 56.7 | 57.5 | 49.5 | 52.6 | 47.0 | 52.1 | 58.2 | 54.3 | 55.7 | 49.0 | 53.9 | 54.1 | 55.4 | 58.7 | 58.4 | 57.8 | 61.8 | 63.0 | 58.5 | |
| 09/08/00 | 60.8 | 58.3 | 59.2 | 53.4 | 50.4 | 48.7 | 50.4 | 60.7 | 51.8 | 51.8 | 52.1 | 56.4 | 55.4 | 58.6 | 61.1 | 60.5 | 61.6 | 64.6 | 66.4 | 56.1 | |
| 09/09/00 | 62.0 | 59.3 | 60.1 | 57.4 | 54.0 | 52.7 | 54.1 | 61.3 | 52.9 | 52.4 | 52.6 | 58.7 | 56.4 | 59.2 | 61.1 | 60.7 | 62.3 | 64.3 | 65.9 | 62.0 | |
| 09/10/00 | 61.5 | 58.3 | 58.8 | 55.2 | 53.9 | 53.1 | 53.9 | 62.7 | 53.4 | 52.5 | 52.5 | 58.6 | 55.7 | 58.6 | 60.4 | 61.5 | 61.4 | 63.9 | 65.4 | 59.2 | |
| 09/11/00 | 62.3 | 58.6 | 59.2 | 55.0 | 53.4 | 51.1 | 54.7 | 62.7 | 53.0 | 52.7 | 54.0 | 59.2 | 55.4 | 59.4 | 60.3 | 62.2 | 62.2 | 64.1 | 65.8 | 58.8 | |
| 09/12/00 | 61.5 | 59.9 | 61.5 | 56.7 | 57.4 | 54.5 | 56.2 | 62.4 | 52.7 | 50.5 | 54.1 | 58.1 | 57.6 | 60.3 | 62.6 | 61.7 | 63.4 | 65.8 | 67.4 | 61.0 | |
| 09/13/00 | 61.6 | 59.3 | 60.7 | 57.3 | 54.2 | 53.2 | 55.3 | 62.2 | 54.4 | 51.9 | 52.9 | 57.5 | 57.1 | 59.2 | 61.6 | 61.5 | 61.8 | 64.8 | 66.4 | 61.0 | |
| 09/14/00 | 57.6 | 55.5 | 56.7 | 54.0 | 55.3 | 48.5 | 50.9 | 57.6 | 53.5 | 55.7 | 49.3 | 53.5 | 52.8 | 55.8 | 58.2 | 58.3 | 59.1 | 61.5 | 63.2 | 57.3 | |
| 09/15/00 | 58.9 | 56.5 | 58.4 | 60.5 | 55.0 | 47.3 | 51.7 | 60.7 | 50.4 | 49.0 | 51.2 | 55.7 | 53.7 | 57.9 | 59.4 | 59.7 | 60.2 | 62.7 | 64.7 | 57.2 | |
| 09/16/00 | 61.5 | 59.4 | 61.0 | 57.2 | 53.2 | 48.2 | 51.3 | 60.8 | 52.6 | 57.9 | 52.0 | 57.1 | 57.2 | 59.2 | 61.9 | 60.1 | 62.3 | 65.3 | 66.8 | 56.9 | |
| 09/17/00 | 62.6 | 59.2 | 60.6 | 61.0 | 55.8 | 53.7 | 56.5 | 63.2 | 52.9 | 52.0 | 54.0 | 58.5 | 56.7 | 59.5 | 61.7 | 62.6 | 61.8 | 64.7 | 66.5 | 61.1 | |
| 09/18/00 | 62.1 | 59.0 | 60.1 | 57.4 | 57.5 | 60.6 | 59.6 | 62.5 | 54.1 | 52.7 | 53.5 | 58.6 | 56.4 | 59.4 | 60.9 | 62.2 | 61.9 | 64.5 | 66.1 | 65.4 | |
| 09/19/00 | 62.2 | 59.9 | 61.7 | 58.2 | 55.5 | 54.6 | 54.7 | 63.9 | 54.8 | 53.0 | 53.5 | 59.3 | 57.7 | 60.3 | 63.3 | 63.1 | 63.0 | 65.9 | 67.5 | 60.8 | |
| 09/20/00 | 61.8 | 59.7 | 60.2 | 55.1 | 58.0 | 52.7 | 51.7 | 63.6 | 54.5 | 55.6 | 53.1 | 59.0 | 56.5 | 60.5 | 61.5 | 63.4 | 63.4 | 65.4 | 67.1 | 58.5 | |
| 09/21/00 | 59.6 | 57.4 | 58.9 | 52.2 | 55.2 | 52.8 | 52.6 | 58.6 | 52.6 | 51.8 | 51.8 | 56.2 | 55.3 | 58.0 | 60.1 | 57.7 | 60.3 | 63.3 | 64.4 | 57.2 | |
| 09/22/00 | 61.7 | 58.7 | 59.5 | 55.5 | 54.1 | 56.8 | 56.6 | 61.4 | 53.1 | 51.6 | 52.9 | 59.0 | 55.6 | 59.9 | 60.4 | 60.8 | 62.2 | 63.8 | 65.7 | 62.0 | |
| 09/23/00 | 60.0 | 58.3 | 59.3 | 54.8 | 55.3 | 54.9 | 55.8 | 59.8 | 51.9 | 51.6 | 51.8 | 56.2 | 55.6 | 58.0 | 60.4 | 58.9 | 60.8 | 63.9 | 65.2 | 61.1 | |
| 09/24/00 | 62.4 | 60.1 | 61.4 | 58.9 | 56.2 | 54.9 | 55.9 | 62.8 | 56.0 | 55.5 | 55.3 | 59.1 | 56.9 | 59.7 | 61.7 | 62.3 | 63.2 | 65.6 | 67.3 | 61.0 | |
| 09/25/00 | 62.0 | 57.6 | 58.1 | 58.5 | 56.5 | 54.5 | 56.0 | 62.7 | 54.1 | 57.3 | 54.4 | 59.5 | 54.5 | 59.1 | 59.1 | 61.7 | 61.5 | 63.3 | 65.0 | 61.2 | |
| 09/26/00 | 59.5 | 56.3 | 56.7 | 61.6 | 62.6 | 66.3 | 62.3 | 60.0 | 53.0 | 53.0 | 52.1 | 50.9 | 54.4 | 53.0 | 62.5 | 60.6 | 56.4 | 61.9 | 63.0 | 69.2 | |
| 09/27/00 | 61.2 | 59.5 | 60.4 | 57.8 | 56.8 | 55.3 | 55.9 | 62.4 | 54.4 | 56.4 | 56.6 | 60.3 | 56.6 | 60.4 | 61.6 | 62.2 | 63.2 | 65.1 | 66.9 | 60.4 | |
| 09/28/00 | 57.3 | 56.1 | 57.3 | 53.5 | 51.9 | 50.5 | 53.0 | 56.9 | 51.7 | 52.2 | 50.8 | 53.5 | 53.6 | 55.1 | 58.2 | 56.2 | 57.7 | 61.5 | 62.5 | 57.7 | |
| 09/29/00 | 58.7 | 56.8 | 58.1 | 52.3 | 52.2 | 43.7 | 51.9 | 59.8 | 52.2 | 52.4 | 51.0 | 55.2 | 54.3 | 57.0 | 59.3 | 59.6 | 59.8 | 62.7 | 64.2 | 54.5 | |
| 09/30/00 | 61.5 | 58.7 | 59.7 | 57.3 | 54.4 | 49.5 | 50.0 | 61.4 | 52.9 | 54.8 | 53.2 | 57.5 | 56.1 | 60.6 | 60.6 | 60.9 | 61.6 | 63.9 | 65.5 | 57.5 | |
| AVERAGE | 60.9 | 58.5 | 59.6 | 56.7 | 55.3 | 55.5 | 55.3 | 61.5 | 53.4 | 53.8 | 52.7 | 57.6 | 55.9 | 58.7 | 60.9 | 61.0 | 61.5 | 64.1 | 65.7 | 60.9 | |
| NO. DAYS | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 27 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| QTR. AVG. | 61.4 | 58.8 | 59.8 | 57.5 | 55.1 | 54.6 | 56.5 | 62.0 | 53.8 | 53.5 | 53.4 | 58.1 | 56.1 | 59.2 | 61.0 | 61.4 | 61.9 | 64.4 | 66.0 | 60.6 | |
| NO. DAYS | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 91 | 92 | 92 | 92 | 81 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | |

TABLE 4. AVERAGE CNEL VALUES

| Site No. | 4th Quarter 2012 | 1st Quarter 2013 | 2nd Quarter 2013 | 3rd Quarter 2013 | 4 Quarter Average |
|----------|------------------|------------------|------------------|------------------|-------------------|
| 1 | 61.2 | 61.2 | 61.8 | 61.4 | 61.4 |
| 2 | 59.6 | 58.2 | 58.7 | 58.8 | 58.8 |
| 3 | 60.2 | 58.9 | 59.4 | 59.8 | 59.6 |
| 4 | 58.7 | 58.6 | 56.6 | 57.5 | 57.9 |
| 5 | 56.4 | 58.2 | 55.6 | 55.1 | 56.5 |
| 6 | 57.4 | 57.0 | 54.6 | 54.6 | 56.1 |
| 7 | 59.2 | 56.2 | 55.4 | 56.5 | 57.1 |
| 9 | 61.0 | 61.0 | 62.3 | 62.0 | 61.6 |
| 10 | 54.3 | 54.8 | 53.7 | 53.8 | 54.2 |
| 11 | 55.2 | 55.1 | 53.2 | 53.5 | 54.4 |
| 12 | 53.1 | 54.3 | 53.8 | 53.4 | 53.6 |
| 13 | 59.9 | 58.5 | 59.1 | 58.1 | 58.8 |
| 14 | 56.9 | 55.4 | 55.8 | 56.1 | 56.2 |
| 15 | 60.6 | 58.6 | 59.6 | 59.2 | 59.4 |
| 16 | 62.8 | 60.4 | 60.5 | 61.0 | 61.2 |
| 17 | 60.2 | | | | 60.2 |
| 18 | 62.7 | 60.4 | 61.7 | 61.4 | 61.6 |
| 19 | | 61.4 | 62.1 | 61.9 | 61.8 |
| 20 | | 63.5 | 64.2 | 64.4 | 64.1 |
| 21 | | 65.0 | 65.8 | 66.0 | 65.6 |
| 22 | | 62.8 | 60.6 | 60.6 | 61.4 |

Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI FLIGHTS FOR THE THIRD QUARTER 2013

| AIRCRAFT | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 90 DAYS | | | | | | | | | |
|----------|---|----------|---------|--------|----------|-----|-----|-----|-----|-----|
| | AS D8-Q400 | AS B7377 | AS CRJ7 | AS CRJ | AS B7378 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 0 | 0 | 15 | 8 | 20 | 14 | 0 | 0 | 5 | 5 |
| EVENING | 0 | 0 | 0 | 7 | 0 | 6 | 0 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 15 | 15 | 20 | 20 | 0 | 0 | 5 | 5 |

| | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 | | | | | | | | | |
|---------|---|---------|----------|----------|--------|-----|-----|-----|-----|-----|
| | 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 | 7 | 0 | 0 |
| EVENING | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 | | | | | | | | | |
|---------|---|---------|---------|----------|----------|-----|-----|-----|-----|-----|
| | US CRJ7 | US CRJ9 | AA MD80 | WN B7373 | WN B7375 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 0 | 0 | 19 | 19 | 0 | 0 | 0 | 0 | 0 | 0 |
| EVENING | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 26 | 26 | 0 | 0 | 0 | 0 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 | | | | | | | | | |
|---------|---|---------|---------|----------|----------|-----|-----|-----|-----|-----|
| | WN B7377 | UA A319 | UA A320 | UA B7373 | UA B7375 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 269 | 243 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EVENING | 59 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 327 | 327 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 | | | | | | | | | |
|---------|---|-------|---------|---------|---------|-----|-----|-----|-----|-----|
| | UA B757 | UA RJ | UA CRJ7 | FE A300 | FE A310 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 0 | 0 | 43 | 30 | 6 | 6 | 0 | 0 | 0 | 1 |
| EVENING | 0 | 0 | 6 | 19 | 0 | 0 | 0 | 0 | 5 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| TOTAL | 0 | 0 | 49 | 49 | 6 | 6 | 0 | 0 | 5 | 5 |

| | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 | | | | | | | | | |
|---------|---|----------|---------|--------|---------|-----|-----|-----|-----|-----|
| | 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 | 20 | 13 | 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 | 20 | 20 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 7/1/13 to 9/28/13 | | | | | | | | | |
|---------|---|---------|----------|-----|-----|-----|--------|-----|-----|-----|
| | DL CRJ9 | B6 A320 | FW2 A319 | | | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | TOTALS | | | |
| DAY | 0 | 0 | 0 | 0 | 0 | 0 | DEP | ARR | | |
| EVENING | 0 | 0 | 7 | 7 | 0 | 0 | 400 | 350 | | |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 137 | | |
| TOTAL | 0 | 0 | 7 | 7 | 0 | 0 | 7 | 8 | 495 | 495 |

**Table 5. WEEKLY SCHEDULED AIR CARRIER AND AIR TAXI
FLIGHTS FOR THE THIRD QUARTER 2013**

| AIRCRAFT | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 2 DAYS | | | | | | | | | |
|----------|---|----------|---------|--------|----------|-----|-----|-----|-----|-----|
| | AS D8-Q400 | AS B7377 | AS CRJ7 | AS CRJ | AS B7378 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 0 | 0 | 14 | 7 | 20 | 14 | 0 | 0 | 5 | 5 |
| EVENING | 0 | 0 | 0 | 7 | 0 | 6 | 0 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 14 | 14 | 20 | 20 | 0 | 0 | 5 | 5 |

| | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 | | | | | | | | | |
|---------|--|---------|----------|----------|--------|-----|-----|-----|-----|-----|
| | 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 | 1 | 1 | 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 | 1 | 1 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 | | | | | | | | | |
|---------|--|---------|---------|----------|----------|-----|-----|-----|-----|-----|
| | US CRJ7 | US CRJ9 | AA MD80 | WN B7373 | WN B7375 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 0 | 0 | 17 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |
| EVENING | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 29 | 29 | 0 | 0 | 0 | 0 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 | | | | | | | | | |
|---------|--|---------|---------|----------|----------|-----|-----|-----|-----|-----|
| | WN B7377 | UA A319 | UA A320 | UA B7373 | UA B7375 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 241 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EVENING | 42 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 283 | 283 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 | | | | | | | | | |
|---------|--|-------|---------|---------|---------|-----|-----|-----|-----|-----|
| | UA B757 | UA RJ | UA CRJ7 | FE A300 | FE A310 | | | | | |
| | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR | DEP | ARR |
| DAY | 0 | 0 | 43 | 30 | 6 | 6 | 0 | 0 | 0 | 1 |
| EVENING | 0 | 0 | 6 | 19 | 0 | 0 | 0 | 0 | 5 | 0 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| TOTAL | 0 | 0 | 49 | 49 | 6 | 6 | 0 | 0 | 5 | 5 |

| | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 | | | | | | | | | |
|---------|--|----------|---------|--------|---------|-----|-----|-----|-----|-----|
| | 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 | 20 | 13 | 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 | 20 | 20 | 0 | 0 |

| | SCHEDULE IN EFFECT FROM 9/29/13 to 9/30/13 | | | | | | TOTALS | |
|---------|--|---------|----------|-----|-----|-----|--------|-----|
| | DL CRJ9 | B6 A320 | FW2 A319 | | | | DEP | ARR |
| | DEP | ARR | DEP | ARR | DEP | ARR | | |
| DAY | 0 | 0 | 0 | 0 | 0 | 0 | 370 | 323 |
| EVENING | 0 | 0 | 7 | 7 | 0 | 0 | 70 | 116 |
| NIGHT | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 |
| TOTAL | 0 | 0 | 7 | 7 | 0 | 0 | 447 | 447 |

TABLE 5. (CONTINUED)

THIRD QUARTER 2013

PERIOD TOTALS FOR
AIR CARRIERS AND AIR TAXIS

AIR CARRIERS

| | <u>DEP</u> | <u>ARR</u> |
|-------|------------|------------|
| DAY | 3983 | 3632 |
| EVE | 1041 | 1287 |
| NIGHT | 0 | 105 |
| TOTAL | 5024 | 5024 |

AIR TAXIS

| | <u>DEP</u> | <u>ARR</u> |
|-------|------------|------------|
| DAY | 1419 | 1169 |
| EVE | 170 | 512 |
| NIGHT | 92 | 0 |
| TOTAL | 1681 | 1681 |

AIR CARRIERS AND AIR TAXIS

| | <u>DEP</u> | <u>ARR</u> |
|-------|------------|------------|
| DAY | 5402 | 4801 |
| EVE | 1211 | 1799 |
| NIGHT | 92 | 105 |
| TOTAL | 6705 | 6705 |

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 650.0 and 324.2 acres, respectively. The areas of incompatible land uses enclosed by the contours were then computed. The incompatible land use areas were 7.69 acres within the 65 dB contour of which 0.51 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 198 parcels of land. Those 198 parcels total 30.52 acres. None of the 198 parcels are 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 7.69 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 57 within the 65 dB contour, of which 3 are also within the 70 dB contour. The estimated numbers of people residing within the 65 and 70 dB CNEL contours are 154 and 8, 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, Fourth Quarter 2012", AAAI Report 1398.
4. "Quarterly Noise Monitoring at Burbank Airport, First Quarter 2013", AAAI Report 1423.
5. "Quarterly Noise Monitoring at Burbank Airport, Second Quarter 2013", AAAI Report 1424.

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.

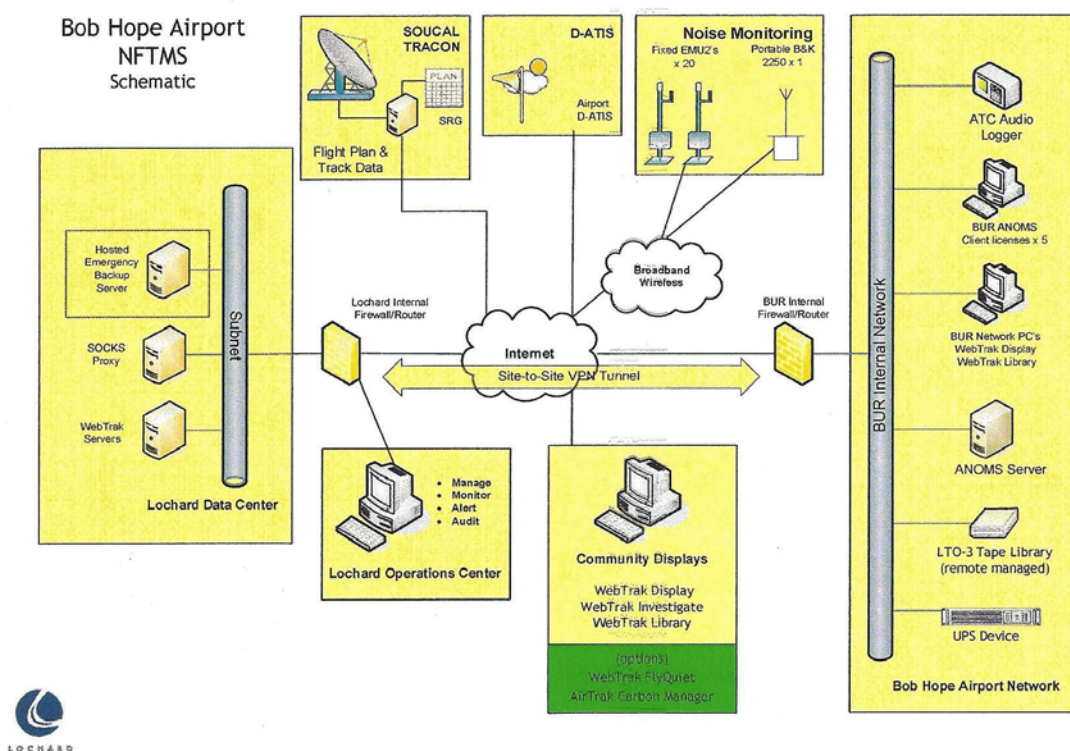


Figure A-1. Permanent Noise Monitor System Schematic

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 | | 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 |



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 |

