ATTACHMENT E

DEVELOPMENT OF STATEWIDE ANNUAL EMISSIONS INVENTORY AND ACTIVITY DATA FOR AIRPORTS

DEVELOPMENT OF STATEWIDE ANNUAL EMISSIONS INVENTORY AND ACTIVITY DATA FOR AIRPORTS

This attachment provides the detailed documentation of methods and procedures used in developing the Texas airport emissions inventories excluding the DFW area.

Eastern Research Group, Inc.

DEVELOPMENT OF STATEWIDE ANNUAL EMISSIONS INVENTORY AND ACTIVITY DATA FOR AIRPORTS

FINAL REPORT

Prepared for:

Texas Commission on Environmental Quality
Air Quality Division

Prepared by:

Eastern Research Group, Inc.

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Development of Statewide Annual Emissions Inventory and Activity Data for Airports

FINAL Report

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1.0 Executive Summary

The purpose of this study was to develop a statewide annual emission inventory for Texas airport activities for the calendar year 2011. The 2011 annual inventory included all counties in the state of Texas with the exception of those in the Dallas-Fort Worth (DFW) Metropolitan Planning Organizations' planning area. Those counties include Collin, Dallas, Denton, Ellis, Henderson, Hood, Hunt, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties. Emissions were developed for all criteria pollutants and hazardous air pollutants (HAPs) where appropriate data were available. Lead emissions were also developed for air taxis and general aviation activities associated with piston aircraft using aviation gasoline.

The emissions associated with airport activities include:

- Commercial aviation (SCC: 2275020000)
- Air taxis
  - Piston driven (SCC: 2275060011)
  - Turbine driven (SCC: 2275060012)
- General aviation
  - Piston driven (SCC: 2275050011)
  - Turbine driven (SCC: 2275050012)
- Military (SCC: 2275001000)
- Auxiliary Power Units (SCC: 2275070000)
- Ground Support Equipment
  - CNG-fueled (SCC: 2268008005)
  - Diesel-fueled (SCC: 2270008005)
  - Gasoline-fueled (SCC: 2265008005)
  - LPG-fueled (SCC: 2267008005).

In order to estimate emissions from these sources, 2011 activity data provided by local airports were compiled and supplemented with publically available 2011 activity data . Two approaches were used to estimate emissions from the compiled activity data. If the activity data had aircraft specific data, the Federal Aviation Administration's (FAA) Emissions and Dispersion Modeling System (EDMS) was employed. If such detailed data were not available, then ERG applied a more general approach for different aircraft types (i.e., air taxis, general aviation, and military aircraft) using available generic emission estimating procedures.

In 2011, general aviation aircraft outfitted with piston engines account for 27% of the total aircraft activities, including activity associated with auxiliary power units and ground support equipment. General aviation aircraft outfitted with jet engines, military aircraft, commercial aircraft, air taxi aircraft outfitted with jet engines, and air taxi aircraft outfitted with piston engines account for 21%, 8%, 7%, 6%, and 3% of the total

aircraft activities, respectively. Auxiliary power units and ground support equipment contribute 10% and 18% to the total aircraft activities, respectively. Harris County has the highest activity with the airports located in Harris County, accounting for 20% of all Texas activity in scope for this project.

2.0 Introduction

2.1 Purpose and Objectives

The purpose of this study is to develop a statewide annual emissions inventory for Texas airport activities for the calendar year 2011. The 2011 annual inventory includes all counties in the state of Texas with the exception of those in the DFW Metropolitan Planning Organizations' planning area. Those counties include Collin, Dallas, Denton, Ellis, Henderson, Hood, Hunt, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties. Emissions are developed for all criteria pollutants and hazardous air pollutants (HAPs) where appropriate data are available. Lead emissions were also developed for air taxis and general aviation activities associated with piston aircraft using aviation gasoline.

In order to develop the comprehensive inventories for the aircraft source category, the following objectives were met:

- Compile 2011 activity data from available local and national data sources,
- Calculate 2011 emissions estimates using EDMS 5.1.3 and generic emission factors,
- Summarize activity and emissions data, and
- Format activity and emissions data into XML.

The methods used for this study comply with the United States Environmental Protection Agency (EPA) guidance on developing aircraft emissions inventories as stated in the *Quality Assurance Project Plan for the Development of a Commercial Aircraft Hazardous Air Pollutants Emission Inventory Methodology*[1]. It should be noted that the engine specific factors used in the model were derived from testing data used to certify the engines and as such these factors account for U.S. and international emission standards. The inventories will be used to support the State Implementation Plan (SIP) and other airport related inquires.

2.2 Report Organization

Section 3.0 of this report identifies the national and local activity data sources included in this study. This section describes how each activity data source is employed in terms of compiling the 2011 activity dataset. This section also documents any assumptions or manipulations that had to be made to each data source to facilitate the compilation of the activity dataset.

Section 4.0 summarizes the emission estimation methodology and the results of the 2011 emissions inventory. Summary emissions tables are provided on a statewide and county level basis for the criteria pollutants.

The criteria and hazardous air pollutant emissions associated with airport activities are included in the access database submitted with this report.

2.3 Background

This report covers airport activities as point sources. The aircraft source category includes all aircraft types used for public, private, and military purposes. Aircraft tend to emit significant amounts of nitrogen oxides (NOx), volatile organic compounds (VOC), and carbon monoxide (CO); as well as smaller amounts of sulfur dioxide (SO2), and particulate matter (PM). Following are the four typical aircraft types and their Source Classification Codes (SCC):

- Commercial aviation (SCC: 2275020000)
- Air taxis
  - Piston driven (SCC: 2275060011)
  - Turbine driven (SCC: 2275060012)
- General aviation
  - Piston driven (SCC: 2275050011)
  - Turbine driven (SCC: 2275050012)
- Military (SCC: 2275001000)

Commercial aircraft transport passengers, freight, or both. Commercial aircraft tend to be larger aircraft that are driven with jet engines. Air taxis (AT) which are also considered to be commercial aircraft are usually smaller (less than 60 passenger) aircraft that operate on a limited basis compared to larger commercial aircraft that which carry between 60 and 800 passengers. General aviation (GA) includes most other aircraft used for recreational flying and personal transportation. Aircraft that support business travel, usually on an unscheduled basis, are included in the GA category.

The national AT and GA fleet includes both jet and propeller-driven aircraft. Most of the AT and GA fleet are made up of piston (or propeller) driven aircraft, though smaller business jets can also be found in these categories. The piston driven aircraft tend to have higher VOC, PM, and CO emissions and lower NOx emissions than larger jet-powered aircraft. According the EPA, 72.1% of all GA activity are powered by propeller-driven aircraft and 27.9% are jet (or turbine) driven; and 21.8% of all AT activity are powered by propeller-driven aircraft and 78.2% are jet (or turbine) driven.2 EPA has used this estimate as a national-scale default value in recently published studies investigating lead emissions from aviation sources.

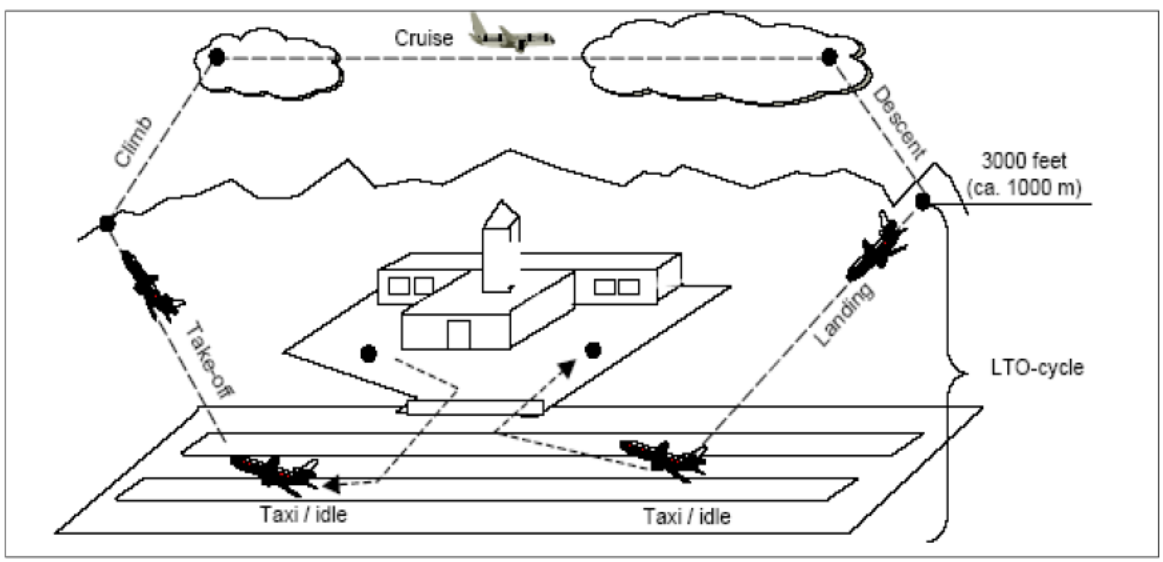
Military aircraft cover a wide range of aircraft types such as training aircraft, fighter jets, helicopters, and jet- and propeller-driven cargo planes of varying sizes. Because of a lack of information concerning the make-up of the military aircraft fleet, EPA has assumed that most military aircraft are jet-powered.

Aircraft emissions are associated with an aircraft's landing and takeoff (LTO) cycle. The cycle begins when the aircraft approaches the airport on its descent from cruising altitude, then lands and taxis to the gate, where it idles during passenger deplaning. The cycle continues as the aircraft idles during passenger boarding, taxis back onto the runway, takes off, and ascends (or climbs out) to cruising altitude. The six specific operating modes in an LTO cycle illustrated in Figure 2-1 are the following:

- Approach
- Taxi/idle-in
- Taxi/idle-out
- Idling
- Takeoff
- Climb out.

The LTO cycle provides a basis for calculating aircraft emissions associated with airports. During each mode of operation, an aircraft engine operates at a specific power setting and fuel consumption rate for a given aircraft make and model. Emissions for one complete cycle are calculated using emission factors for each operating mode, for each specific aircraft engine, combined with the typical period of time the aircraft is in the operating mode.

Figure 2-1. Landing and Take Off Cycle



3.0 Data Sources of Texas Airport Activities Inventoried

3.1 National Data Sources of Texas Airport Activities

To estimate emissions from aircraft operating in Texas, ERG used the activity data compiled by EPA intended for use in the 2011 National Emissions Inventory (NEI). Activity data were compiled from the following sources:

- Bureau of Transportation Statistics (BTS) T-100 segment dataset,3
- FAA Terminal Area Forecast (TAF) dataset, and 4
- FAA Airport Master Record (5010) dataset.5

The compiled data are adjusted for duplicates associated with the three datasets, and supplemented with local data discussed further in Section 0. This section discusses each data source investigated for this project summarizing the publically available data and noting any limitations or data gaps.

3.1.1 T-100 Dataset

The T-100 data is an activity dataset that includes information provided by domestic and international commercial air carriers. During the time period of this study, only January through August activity data were available for 2011. In order to obtain the missing months from the 2011 activity dataset, data from September through December for 2010 were adjusted to reflect 2011 data using scale factors developed from the TAF dataset. This dataset had the most specific data of the three datasets. The T-100 data included airport, aircraft make and model, and LTO cycle data. The engine information was incorporated into the dataset from the FAA's Emissions and Dispersion Modeling System 5.1.3 (EDMS) default engine list. The aircraft categories were assigned to each aircraft with the assumption that T-100 only includes commercial aircraft and air taxis. Aircraft were assigned the AT aircraft category, if the number of seats on the aircraft were less than or equal to 60, otherwise the aircraft was assigned to the commercial air carrier (AC) category Appendix A summarizes the T-100 data used for this study.

3.1.2 TAF Dataset

The TAF dataset is an FAA dataset derived from a variety of sources such as reported traffic at FAA towered facilities, data reported directly by airports and FAA derived estimates from historical information. This dataset includes airport, aircraft categories, and operations data.

The aircraft categories included AC, AT, military (MIL), and GA. As mentioned in Section 2.3, it can be assumed that 72.1% of all GA activity are powered by propeller-driven aircraft and 27.9% are jet (or turbine) driven; and 21.8% of all AT activity are powered by propeller-driven aircraft and 78.2% are jet (or turbine) driven. The aircraft

categories from AT and GA were broken out into piston and jet engines. This breakout is important because piston engines have different emission factors than jet engines.

For consistency between the other two datasets, the TAF operations data were converted into LTO cycles. There was overlap between the TAF dataset and T-100 dataset. The T-100 activity had a higher priority than the TAF dataset because it had greater detail; consequently the duplicate data were removed from the TAF dataset.

3.1.3 5010 dataset

The 5010 dataset was EPA compiled data from the FAA's airport 5010 master plan data and estimated activity levels based on statistical techniques described in greater detail in the EPA aviation lead report from December 20106. The 5010 data were provided to the states via the EPA's National Emissions Inventory (NEI). This data includes airport, aircraft categories, and LTO cycle data.

The aircraft categories include AC, AT, MIL, and GA. The aircraft categories provided by the EPA in the 5010 dataset were AT and GA broken out into piston and jet engines as they tend to include some of the smallest airports and landing strips. Local Activity Data and Control Strategies for Medium and Large Airports

3.1.4 Contacting Airports

The medium to large airports were contacted in order to provide 2011 activity data and to identify and characterize control strategies used or planned at each airport. The medium to large airports identified for contacting were based on estimated activity levels. Thirty five candidate airports were identified that had 19,000 LTO cycles or more in the previous 2008 inventory. These candidate airports accounted for 32% of the activity in Texas, not including airports included in the DFW Metropolitan Planning Organizations' planning area.

Once the medium to large candidate airports were identified, each airport was contacted by telephone and asked to provide the following.

- 2011 landing & take-off data for the airport,
- Average taxi-in and taxi-out times for the airport, and
- List emission control strategies (i.e. gate electrification, auxiliary power units, etc.) for 2011and the expected emission reduction.

Of the airports contacted 40% of the airports submitted 2011 operations data, 26% submitted taxi time estimates, and 11% provided control strategies. ERG located 2011 operations data for 9% of the airports by conducting internet searches at each airport website. Table 3-1 summarizes the airports that ERG contacted and their responses.

Table 3-1. Summary of Responses from Large to Medium Airports Contacted1

State Facility Identifier	Facility Name	Contact Name	Phone Number	Email Address	Contacted	Provided Data
ABI	ABILENE RGNL	Don Green	325-676-6367	don.green@abilenetx.com	Yes.	Submitted 2011 operations data; no taxi time data. Provided emission control strategies. 5
RKP	ARANSAS CO	Gene Johnson	361-790-0141	manager@krkp.com	No response.	Provided emission control strategies. 2
AUS	AUSTIN-BERGSTROM INTL	Stephen Dick	512-530-6621	stephen.dick@ci.austin.tx.us	Yes.	Submitted 2009 report and noted that FAA would have the most recent data; taxi in 4 minutes and taxi out 3 minutes. ERG located 2011 activity overview via internet search.
LBX	BRAZORIA COUNTY	Jeff Bilyeu	979-849-5755	jbilyeu@brazoria-county.com	No response.	
DWH	DAVID WAYNE HOOKS MEMORIAL	Roger Schmidt	281-376-5436	rschmidt@hooksairport.com	Yes.	Requires formal letter directly from TCEQ requesting data.
TPL	DRAUGHON-MILLER CENTRAL TEXAS RGNL	Sharon Rostovich	254-298-5350		Yes.	Reported 48,825 annual operations for 2011; no taxi time data.
GGG	EAST TEXAS RGNL	Eugene Bolanowski/ Deputy Director	903-643-3031 x 23	Eugene.Bolanowski@co.gregg.tx.us	Yes.	Submitted 2011 operations data; taxi time in/out 1 minute.
CLL	EASTERWOOD FIELD	John Happ	979-845-5103	jhapp@tamu.edu	No response.	
ELP	EL PASO INTL	Rick Venegas	915-599-6238	rick.venegas@elpasotexas.gov	No response.	ERG located 2011 activity overview via internet search.

[1] For a more detailed account of the communications between ERG and the large to medium airports contacted, see Appendix B.
[2] Airport contact provided projected emission control strategies during data collection efforts in April 2011 for the 2008 TCEQ "Development of Statewide Annual Emissions Inventory and Activity Data for Airports". ERG assumed that projected control strategies have not changed.

Table 3-1. Summary of Responses from Large to Medium Airports Contacted1

State Facility Identifier	Facility Name	Contact Name	Phone Number	Email Address	Contacted	Provided Data
EFD	ELLINGTON FIELD	James Parise	281-233-1756	jim.parise@houstontx.gov	Yes.	Submitted 2011 LTO data; taxi times in/out 5 minutes.
IAH	GEORGE BUSH INTERCONTINENTAL/ HOUSTON	Elaine Karnes/ James Parise	214-792-3572/281-233-1756	elaine.karnes@wnco.com/ jim.parise@houstontx.gov	Yes.	Submitted 2011 LTO data and GSE counts; taxi times in/out 5 minutes.
GTU	GEORGETOWN MUNI	Travis Mclain	512-930-3666	travis.mclain@georgetown.org	No response.	Provided emission control strategies. 5
TA90	GREEN ACRES	Ranson Fullinwider	409-931-1311		Invalid phone number.	
AXH	HOUSTON-SOUTHWEST	Len Franklin	281-431-2583		No response.	Provided emission control strategies. 5
T41	LA PORTE MUNI	David Mitch	281-471-9650		No response.	
LRD	LAREDO INTL	Jose Flores	956-795-2000		No response.	
CXO	LONE STAR EXECUTIVE	Scott Smith	936-539-7811		Yes.	Submitted 2011 operations data; taxi times in/out 3 minutes.
LBB	LUBBOCK PRESTON SMITH INTL	James Loomis	806-775-3126		No response.	
MFE	MC ALLEN MILLER INTL	Kristi Salinas	956-681-1527	ktsalinas@mcallen.net	No response.	ERG located 2011 activity overview via internet search.
MAF	MIDLAND INTL	Marv Esterly	432-560-2200 x 3001	mesterly@midlandtexas.gov	No response.	
GYI (Formerly F39)	NORTH TEXAS RGNL/PERRIN FIELD	Mike Shahan	903-786-2904	airport@co.grayson.tx.us	Yes.	Submitted 2011 operations data; taxi times in/out 5 minutes.
ODO	ODESSA-SCHLEMEYER FIELD	John Landgraf	432-332-5058		No response.	

Table 3-1. Summary of Responses from Large to Medium Airports Contacted1

State Facility Identifier	Facility Name	Contact Name	Phone Number	Email Address	Contacted	Provided Data
LVJ	PEARLAND RGNL	Andy Rivera/ Wayne Messinger	281-482-7551	clover3@flash.net	Yes.	Reported 120,000 annual operations for 2011; taxi time in/out 5 minutes.
AMA	RICK HUSBAND AMARILLO INTL	Patrick Rhodes	806-335-1671	patrick.rhodes@amarillo.gov	Yes.	Submitted 2011 operations data; taxi times in/out 2-4 minutes.
SJT	SAN ANGELO RGNL/MATHIS FIELD	Linda Clifton/ Alan Angers	325-659-6409 / 817-931-5423	linda.clifton@sanangelotexas.us/ alan.angers@aa.com	No response.	
HYI	SAN MARCOS MUNI	Steven Alexander	512-216-6039	salexander@texasaviationpartners.com	Yes.	Submitted September-December 2011 operations data, noting that the FAA Tower opened September 2011. Estimated 30,000 annual operations for 2011; no taxi time data.
GLS	SCHOLES INTL AT GALVESTON	Hud Hopkins	409-741-4609	manager@houstonairport.com	No response.	
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Sarah Johnson	940-855-3623		No response.	
SGR	SUGAR LAND RGNL	Phillip Savko	281-275-2100		Yes.	Reported 90,000 annual operations for 2011; taxi times in/out 3 minutes.
TYR	TYLER POUNDS RGNL	Cheryl Mcinnis	903-531-2343		No response.	ERG located 2011 activity overview via internet search.
HRL	VALLEY INTL	Bryan Wren		bryan@flythevalley.com	Yes.	Reported 39,624 annual operations for 2011; no taxi time data.
VCT	VICTORIA RGNL	Larry Blackwell	361-578-2704		No response.	
EYQ	WEISER AIR PARK	Cecil Weiser	281-469-8227		No response.	

Table 3-1. Summary of Responses from Large to Medium Airports Contacted1

State Facility Identifier	Facility Name	Contact Name	Phone Number	Email Address	Contacted	Provided Data
IWS	WEST HOUSTON	Woody Lesikar	281-492-2130		No response.	
HOU	WILLIAM P HOBBY	Elaine Karnes/ James Parise	214-792-3572/281-233-1756	elaine.karnes@wnco.com/ jim.parise@houstontx.gov	Yes.	Submitted 2011 LTO data and GSE counts; taxi times in/out 5 minutes.

3.1.5 Summary of Local Data Received

As noted in the previous section, ERG collected local data from 49% of the airports contacted (40% of the airports submitted data and ERG located data for an additional 9% of the airports by conducting internet searches). In addition, 26% of the airports submitted taxi time estimates and 11% provided emission control strategies.

The local data was available in different formats depending on how each airport recorded airport activity. The 2011 operations data were submitted as annual totals, annual totals by generic aircraft type categories, or annual totals by specific aircraft make and model.

Of the airports that ERG collected local data from, six of the airports submitted operations data as annual totals. Table 3-2 summarizes the 2011 operations data submitted as annual totals. Pearland Regional Airport and Sugar Land Regional Airport also provided information on taxi times. The taxi in and taxi out times were five minutes and 3 minutes, respectively.

Table 3-2. 2011 Operations Data: Submitted as Annual Totals

State Facility Identifier	Facility Name	Annual Operations
AUS	AUSTIN-BERGSTROM INTL	232,801
TPL	DRAUGHON-MILLER CENTRAL TEXAS RGNL	48,825
MFE	MC ALLEN MILLER INTL	65,798
LVJ	PEARLAND RGNL	120,000
SGR	SUGAR LAND RGNL	90,000
HRL	VALLEY INTL	39,624

Of the airports that ERG collected local data from, six of the airports submitted operations data as annual totals by generic aircraft type categories. Table 3-3 summarizes the 2011 operations data submitted as annual totals by generic aircraft type categories. Austin-Bergstrom International Airport, East Texas Regional Airport, North Texas Regional Airport, and Rick Husband Amarillo International Airport also provided information on taxi times. For Austin-Bergstrom taxi times were 4 minutes in and 3 minutes out. The other three airports' taxi in and taxi out times were one minute, five minutes, and two to four minutes, respectively.

Table 3-3. 2011 Operations Data: Submitted as Annual Totals by Generic Aircraft Type Categories

State Facility Identifier	Facility Name	AC	AT	GA LOC	GA IT	MIL LOC	MIL IT
ABI	ABILENE RGNL	330	10,474	7,959	22,331	11,242	9,703
GGG	EAST TEXAS RGNL	1,125	1,388	37,599	25,567	3,618	2,529
ELP	EL PASO INTL	40,422	19,901		28,035		6,089
F39	NORTH TEXAS RGNL/PERRIN FIELD	15	195	17,983	12,870	79	59

Table 3-3. 2011 Operations Data: Submitted as Annual Totals by Generic Aircraft Type Categories

State Facility Identifier	Facility Name	AC	AT	GA LOC	GA IT	MIL LOC	MIL IT
AMA	RICK HUSBAND AMARILLO INTL	8,459	10,412	5,929	16,366	12,932	16,845
TYR	TYLER POUNDS RGNL	808	7,048	13,758	21,919	120	234

The Houston airports (Ellington Field Airport, George Bush Intercontinental Airport, and William P. Hobby Airport) provided aircraft-engine specific LTO cycle data for 2011. Appendix C summarizes the 2011 activity data for the Houston airports. Ellington Field Airport and George Bush Intercontinental Airport also provided information on taxi times. At both airports, the taxi in and taxi out times were five minutes.

Two of the airports provided 2011 activity data in multiple formats. The San Marcos Municipal Airport provided operations data by generic aircraft types for September through December. San Marcos Municipal Airport did not have data by generic aircraft type prior to September because their tower opened in September 2011. In addition to the partial 2011 dataset, San Marcos Municipal Airport submitted operations data as an annual total. Table 3-4 summarizes the 2011 activity data for San Marcos Municipal Airport.

Table 3-4. 2011 Operations Data: San Marcos Municipal Airport

Time Range	Aircraft Type Category	Operations
January - December	-	30,000
September - December	AC	0
September - December	AT	206
September - December	GA LOC	7,255
September - December	GA IT	8,264
September - December	MIL LOC	56
September - December	MIL IT	120

At the Lonestar Executive Airport, operations data are kept differently for instrument flight rules (IFR) and non-instrument flight rules (non-IFR). They submitted the IFR portion of the 2011 operations data by specific aircraft types and the non-IFR portion by generic aircraft types. The IFR operations and the non-IFR operations are summarized in Appendix D and Table 3-5, respectively. Lonestar Executive Airport also provided information on taxi times. The taxi in and out times were three minutes.

Table 3-5. 2011 Operations Data: Lonestar Executive Airport Submitted as Annual Totals by Generic Aircraft Type Categories

Aircraft Type Category	Operations
AT	534
GA LOC	21,451
GA IT	32,584
MIL LOC	778
MIL IT	1,889

The four airports that provided information on emission control strategies were Houston-Southwest Airport, Aransas County Airport, Abilene Regional Airport, and Georgetown Municipal Airport. Houston-Southwest will be building a number of new hangars in the future, and installing electric gates in 2012. Aransas County had electronic gates installed in 2002, and auxiliary power generators installed in 2006/2007. The auxiliary power generators were used in case of emergency, when power is not available. Abilene Regional had two auxiliary power units (APUs) installed in 2002, but were unaware the associated emission reductions. Georgetown Municipal had electrical gates installed in 1999.

This memorandum summarized the activity data provided by each airport and TCEQ. The provided local data will be basis for the TCEQ's 2011 aircraft inventory. The data gaps will be filled in using national 2011 data. For consistency between the local dataset and the national dataset, the 2011operations data will be converted into LTO cycles. This combined dataset will be used as the 2011 baseline activity data for this study.

4.0 Summary of 2011 Emissions

4.1 Emission Estimation Methodology

To develop the most accurate aircraft emission inventory possible, two different approaches were required. If aircraft-specific data were available, ERG used the FAA's EDMS model in conjunction with detailed aircraft activity data from T-100 (Texas T-100 data are provided in Appendix A). If such detailed data were not available, then ERG applied a more general approach for different aircraft types (i.e., air taxis, general aviation, and military aircraft) using available generic emission estimating procedures. Using these two complementary approaches provides the most accurate emission estimates for the larger commercial jets, which tend to be the most significant aircraft emission source, while still providing estimates for smaller aircraft.

4.1.1 Emissions and Dispersion Modeling System

There are a total of 1,620 airports in Texas excluding those in the DFW Metropolitan Planning Organizations' planning area; 44 are large airports for which detailed aircraft activity data were available. To estimate 2011 emissions for these large airports, ERG used local data, when available and T-100 segment data (summarized in Appendix A) in conjunction with the FAA EDMS model – version 5.1.3.

EDMS is an emission estimating tool developed by the FAA. EDMS is capable of estimating criteria and HAP emissions from a variety of stationary and mobile sources. Stationary sources include fuel storage tanks, power and heat generation, surface coating, degreasing, and incineration. Mobile sources include aircraft, auxiliary power units (APUs), ground support equipment (GSE), road traffic (including shuttle bus services), and vehicle emissions from parking areas.

For the 2011 emissions inventory, the EDMS analysis was limited to aircraft, APU, and GSE emissions. Note that emissions from APU and GSE are reported separately to the NEI and have their own SCC codes. The APU SCC code is 2275070000, and the GSE SCC codes are 2265008005, 2267008005, 2268008005, and 2270008005 for GSE fueled by gasoline, LPG, CNG, and diesel, respectively.

EDMS allows users to customize time-in-mode and mixing height to provide greater precision of aircraft emissions. Time-in-mode is synonymous with the LTO cycle discussed above. For each large airport, ERG developed airport specific taxing and idling times and mixing height to adjust time-in-mode for approach and climb out modes. Taxing and idling times were collected from on-time performance reports submitted to BTS by certificated air carriers.7 Upper-air weather observations were collected by the National Climatic Data Center and published by the EPA Support Center for Regulatory Air Models.8 ERG identified the closest weather service station to

each large airport. The mixing height provides a vertical cutoff for EDMS modeling of aircraft emissions.

For each individual aircraft make and model (e.g., Boeing 747-200 series), EPA has assigned an engine type and code, which can be linked to the engines in EDMS. EDMS incorporates the latest aircraft engine emission factors from the International Civil Aviation Organization Engine Exhaust Emissions Data Bank.9

EDMS uses the following equation to estimate aircraft emissions:

$$Eil = \sum Tk \times NEjl \times (FFjlk / 1000) \times (EIjlk) \times LTO\ jl$$

Where:

Eil	=	Emission of pollutant i in pounds produced by the aircraft make j and model l
Tk	=	Operating time in mode k (min)
NEjl	=	Number of engines associated with aircraft make j and model l
FFjlk	=	Fuel flow for individual engine used on aircraft make type j and model l operating in mode k(lbs/min)
EIilk	=	Emission index for pollutant i for each engine associated with aircraft make j and model l operating in mode k (lbs of pollutant /1,000 lbs of fuel)
i	=	Pollutant (i.e., HC, VOC, CO, NOx SO2)
j	=	Aircraft make (e.g. Boeing, McDonald Douglas, Airbus)
l	=	Aircraft model (e.g., B-737 300 series)
k	=	Mode (approach, taxi, climbout).

APUs are most often on-board generators that provide electrical power to the aircraft while its main engines are shut down and to provide startup power form the main engines. The APU is, in effect, a small jet engine and the calculations for the emissions generated by it are similar to that of an aircraft engine operating in one optimal power setting only. APU emissions are generated per LTO cycle.

Emissions from APUs are estimated using the following equation:

$$Eij = T \times (FFj/1{,}000) \times (EIij)$$

Where:

Eij	=	Emission of pollutant i in pounds produced by the auxiliary power unit installed on aircraft type j for one LTO cycle
T	=	Operating time per LTO cycle (min)

FFj	=	Fuel flow for each auxiliary power unit used on aircraft type j (lbs/min)
EIij	=	Emission index for pollutant i for each auxiliary power unit used on aircraft type j (lbs of pollutant /1,000 lbs of fuel)
i	=	Pollutant (i.e., VOC, HC, CO, NOx SO2)
j	=	Aircraft type (e.g., B-737, MD-11)

APU emissions can be reduced by using electricity and pretreated ventilation air from the terminals, where local data indicated that such activities are part of the facilities emission reduction strategy, ERG reduced APU emissions by 90% based on EPA guidance for the following airports:

- George Bush Intercontinental (IAH)
- Austin-Bergstrom Intl. (AUS)
- William P Hobby (HOU)
- San Antonio Intl. (SAT)
- El Paso Intl (ELP)
- Lubbock Preston Smith Intl. (LBB)
- Valley Intl. (HRL).

Upon arrival at a gate, aircraft are met by GSE to unload baggage and service the lavatory and cabin. Prior to aircraft departure, GSE are present to load baggage, food, and fuel. When an aircraft departs from a gate, a tug may be used to push or tow the aircraft away from the gate and to the taxiway. GSE emission factors used by EDMS were derived from EPA's NONROAD2005 model and are based on the following variables: fuel, brake horsepower, and load factor.

GSE emissions are estimated by applying activity data to an appropriate emission factor as noted in the following equation:

$$EE = A \times EF \times (1-CE/100)$$

Where:

EE	=	Emission estimate (tons per year)
A	=	Annual activity level
EF	=	Emission factor (tons/activity)
CE	=	Anticipated emission reduction (percentage)

GSE activity level (minutes per arrival, minutes per departure) is assigned based on the type of service. For example, a fuel truck servicing a large commercial aircraft has a different operating time than the same fuel truck servicing a smaller aircraft.

EDMS provides emission estimates for NOx, HC, VOC, CO, SO2, PM10, PM2.5, and HAPs.

4.1.2 Generic Emission Estimating Procedures

EDMS can provide emission estimates if the aircraft make and model are known. Often this is not the case for air taxis, general aviation, and military aircraft activity in the TAF and 5010 datasets. For 1,611 smaller airports operating in Texas with the exception of those in the DFW Metropolitan Planning Organizations' planning area, ERG used the generic approach that relies upon representative criteria emission factors provided by EPA. The following equation was used:

$$Eixj = LTOi \times FRpro\text{-}i \times EFij$$

Where:

Eixj	=	Emission estimate for aircraft type i equipped with engine type x and pollutant j (lbs/year)
LTOi	=	Annual count of LTO cycles for aircraft type i
FRx	=	Fraction of LTOs equipped with engine type x
EFij	=	Generic emission factor for aircraft type i equipped with engine type x and pollutant j (lbs/LTO)
i	=	Aircraft type (i.e., air taxi, general aviation, and military)
x	=	Engine type (i.e., jet or turboprop, and piston engine)
j	=	Criteria pollutant j

Critical to the calculation is the application of representative emission factors that account for the different aircraft in the national fleet. Table 4-1 lists the generic emission factors for criteria pollutants by aircraft type.10 U.S. EPA OTAQ staff have recently review the generic criteria emission factors used for this Texas inventory and recommended the use of new VOC/HC conversion factors (1.15)11; this correction was made to the files used for this project.

As discussed above, EPA has assumed that 72.1% of all GA activity are powered by propeller-driven aircraft and 27.9% are jet (or turbine) driven; and 21.8% of all AT activity are powered by propeller-driven aircraft and 78.2% are jet (or turbine) driven, with the exception of the 5010 data where the piston and jet engines were already disaggregated; and that commercial and military aircraft are jet driven. For this emissions inventory, ERG has used EPA's engine fleet assumptions to be consistent with data submittals provided by other states.

Table 4-1. Emission Factors for Aircraft Types (pounds per LTO)

Aircraft Type	Pollutant					
	VOC	NOX	CO	SO2	PM10	PM2.5
Commercial	6.16	18.6	22.4	1.78	1.08	1.05
Air Taxi (jet)	1.01	0.78	3.61	0.16	0.60	0.58
Air Taxi (propeller)	0.17	0.16	28.1	0.015	0.60	0.42
General Aviation (jet)	0.69	0.32	9.58	0.074	0.24	0.23
General Aviation (propeller)	0.15	0.065	12.0	0.010	0.24	0.16
Military	1.42	0.16	28.1	0.015	0.60	0.59

4.1.3 Summary of Texas Airport Emissions

The results of implementing the emission estimation methodology for the year 2011 are present in Table 4-2 on a statewide basis and Table 4-3 on a county-level basis for the top ten counties with the highest activity.

General aviation aircraft outfitted with piston engines account for 27% of the total aircraft activities, including activity associated with auxiliary power units and ground support equipment. General aviation aircraft outfitted with jet engines, military aircraft, commercial aircraft, air taxi aircraft outfitted with jet engines, and air taxi aircraft outfitted with piston engines account for 21%, 8%, 7%, 6%, and 3% of the total aircraft activities, respectively. Auxiliary power units and ground support equipment contribute 10% and 18% to the total aircraft activities, respectively. General aviation aircraft outfitted with piston engines also contributed to the highest percentage of carbon monoxide emissions (29%); while auxiliary power units contributed the least (0.16%). Commercial aircraft contributed to the highest percentage of nitrogen oxide emissions (70%); while air taxi aircraft outfitted with piston engines contributed the least (0.39%). General aviation aircraft contributed to the highest percentage of particulate matter 10 emissions (32%), and general aviation aircraft contributed to the highest percentage of particulate matter 2.5 emissions (28%); while auxiliary power units and air taxi aircraft outfitted with piston engines contributed the least (0.99% for particulate matter 10 and 0.97% for particulate matter 2.5, respectively). Commercial aircraft contributed the most to sulfur dioxide emissions (66%); while auxiliary power units contributed the least (0.8%). General aviation aircraft outfitted with jet engines contributed the highest percentage of volatile organic compound emissions (25%); while auxiliary power units contributed the least (0.19%).

Table 4-2. Statewide Summary of TX Base year Activity and Emissions Data for the Criteria Pollutants

Aircraft/Equipment Type	Activity (LTO)	Annual Emissions (tons/yr)					
		CO	NOx	PM10	PM2.5	SOx	VOC
Air Taxi (piston)	172,257	1,873	20	6	4	6	55
Air Taxi (jet)	288,789	1,019	626	19.2	19.0	86	328
Commercial	370,374	2,599	3,574	42	42	356	406
General Aviation (piston)	1,339,270	8,557	46	154	106	8	114
General Aviation (jet)	1,050,607	5,092	213	121	119	46	468
Military	398,154	5,854	118	111	108	20	332
Auxiliary Power Unit	521,820	48	24	5	5	4	3
Ground Support Equipment (CNG)	11,587	60	6.6	0.21	0.20	0.13	2.0
Ground Support Equipment (diesel)	709,208	3,661	404	13	12	8.2	125
Ground Support Equipment (gasoline)	149,162	770	85	2.7	2.6	1.7	26
Ground Support Equipment (LPG)	14,653	76	8	0.3	0.3	0.2	2.6
	Total	29,607	5,124	473	417	538	1,862

Airports located in the top ten Texas counties account for 57% of all Texas activity in scope for this project. These airports account for 62% of the CO emissions, 89% of the NOx emissions, 53% of the PM-10 emissions, 55% of the PM-2.5 emissions, 87% of the SO2 emissions, and 74% of the VOC emissions.

The airports located in the most active county, Harris County, account for 20% of all Texas activity in scope for this project. These airports account for 25% of the CO emissions, 61% of the NOx emissions, 15% of the PM-10 emissions, 15% of the PM-2.5 emissions, 57% of the SO2 emissions, and 34% of the VOC emissions.

Table 4-3. Summary of TX Base year Activity and Emissions Data for the Criteria Pollutants for the Top Ten Counties

County	FIPS	Activity (LTO)	Annual Emissions (tons/yr)					
			CO	NOx	PM10	PM2.5	SOx	VOC
Harris	48201	714,324	7,370.07	3,135.26	71.06	64.43	304.95	627.63
Medina	48325	469,363	2,406.21	76.88	54.04	52.74	17.53	167.64
Wichita	48485	183,745	2,363.93	21.33	50.53	48.70	2.35	116.45
Bexar	48029	165,796	2,108.91	480.90	10.27	9.73	53.19	206.91
Travis	48453	136,438	1,424.55	515.60	9.97	9.37	48.76	132.62
Brazoria	48039	130,718	730.53	20.35	16.85	14.07	3.49	29.85
Fort Bend	48157	74,503	444.28	5.45	9.55	7.41	1.08	11.89
El Paso	48141	67,408	710.85	253.10	10.32	8.96	26.52	46.98
Midland	48329	60,372	525.79	56.09	10.32	9.18	6.59	26.50
Williamson	48491	60,173	344.78	4.10	7.20	5.56	0.82	9.18
Total		2,062,840	18,430	4,569	250	230	465	1,376

5.0 References

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11. U.S. EPA/ FAA. *Recommended Best Practice for Quantifying Speciated Gas-Phase Organic Gas Emissions from Aircraft Equipped with Turbofan, Turbojet, and Turboprop Engines* (February 2009).

Appendix A
T-100 Data Used in EDMS Model

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
ABI	ABILENE RGNL	Taylor	48441	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	1
ABI	ABILENE RGNL	Taylor	48441	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	3
ABI	ABILENE RGNL	Taylor	48441	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1
ABI	ABILENE RGNL	Taylor	48441	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	7
ABI	ABILENE RGNL	Taylor	48441	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	2
ABI	ABILENE RGNL	Taylor	48441	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	34
ABI	ABILENE RGNL	Taylor	48441	Boeing MD-82	MD82	JT8D-217C	4PW070	45
ABI	ABILENE RGNL	Taylor	48441	Boeing MD-87	MD87	JT8D-219	4PW071	4
ABI	ABILENE RGNL	Taylor	48441	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	2
ABI	ABILENE RGNL	Taylor	48441	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	507
ABI	ABILENE RGNL	Taylor	48441	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	353
ABI	ABILENE RGNL	Taylor	48441	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	896
ABI	ABILENE RGNL	Taylor	48441	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1,187
ABI	ABILENE RGNL	Taylor	48441	Gulfstream G200	GULF200	PW306A	7PW077	1
ACT	WACO RGNL	McLennan	48309	ATR 72-200	ATR72-2	PW127	PW127	832
ACT	WACO RGNL	McLennan	48309	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	4
ACT	WACO RGNL	McLennan	48309	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	2

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
ACT	WACO RGNL	McLennan	48309	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1
ACT	WACO RGNL	McLennan	48309	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	2
ACT	WACO RGNL	McLennan	48309	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	1
ACT	WACO RGNL	McLennan	48309	Boeing 757-200 Series	B757-2	PW2037	4PW072	1
ACT	WACO RGNL	McLennan	48309	Boeing 757-300 Series	B757-3	PW2043	PW2043	1
ACT	WACO RGNL	McLennan	48309	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	11
ACT	WACO RGNL	McLennan	48309	Boeing MD-82	MD82	JT8D-217C	4PW070	8
ACT	WACO RGNL	McLennan	48309	Boeing MD-87	MD87	JT8D-219	4PW071	4
ACT	WACO RGNL	McLennan	48309	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	1
ACT	WACO RGNL	McLennan	48309	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	1
ACT	WACO RGNL	McLennan	48309	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	54
ACT	WACO RGNL	McLennan	48309	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	285
ACT	WACO RGNL	McLennan	48309	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	126
ACT	WACO RGNL	McLennan	48309	Saab 340-B	SAAB340-B	CT7-9B	CT79B	1,238
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Antonov 12 Cub	AN12	T56 series I	T56-1	1
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	ATR 72-200	ATR72-2	PW127	PW127	655
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1,632

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	4
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	160
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1,218
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	23
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	1
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing 757-300 Series	B757-3	PW2043	PW2043	2
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing MD-82	MD82	JT8D-217C	4PW070	13
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Boeing MD-87	MD87	JT8D-219	4PW071	4
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	477
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	1
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	1
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Dornier 328-100 Series	DO328-1	PW119B	PW119B	1
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	240
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	313
AMA	RICK HUSBAND AMARILLO INTL	Potter	48375	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	2,742
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	469
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	3

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Airbus A318-100 Series	A318-1	CFM56-5B8/P	7CM048	64
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	1,495
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	1,593
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Airbus A321-100 Series	A321-1	V2530-A5	1IA005	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Antonov 124 Ruslan	AN124	D-36	1ZM001	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	2
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	3
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	12
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	7,230
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	15
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	2,465
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	9,576
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	3,143
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	556
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 757-200 Series	B757-2	PW2037	4PW072	272
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 757-300 Series	B757-3	PW2043	PW2043	11
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	1

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 767-300 ER	B767-3ER	PW4060	1PW043	9
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 767-400	B767-4	CF6-80C2B8FA	3GE058	2
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing 777-200 Series	B777-2	PW4077	2PW061	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing DC-10-10 Series	DC10-1	CF6-6D	1GE001	483
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing DC-10-30 Series	DC10-3	CF6-50C2	3GE074	12
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	4
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	33
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing DC-9-50 Series	DC9-5	JT8D-17	1PW013	2
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing MD-11	MD11	CF6-80C2D1F	2GE049	82
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing MD-82	MD82	JT8D-217C	4PW070	8,547
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing MD-87	MD87	JT8D-219	4PW071	5
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Boeing MD-90	MD90	V2525-D5	1IA002	2
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Bombardier CRJ-100	CRJ1	CF34-3A1	1GE035	32
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	964
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	4,077
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	4,915
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	85

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	1,453
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Cessna 550 Citation II	CNA550	JT15D-4 series	1PW036	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Cessna 650 Citation III	CNA650	TFE731-3	1AS002	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Dornier 328-100 Series	DO328-1	PW119B	PW119B	28
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	839
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Embraer ERJ170	ERJ170	CF34-8E5	6GE094	919
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Embraer ERJ175	ERJ175	CF34-8E5	6GE094	190
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Embraer ERJ190	ERJ190	CF34-10E	XCF10E	1,501
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Gulfstream G200	GULF200	PW306A	7PW077	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Gulfstream G450	GULF450	TAY 611-8C	6RR042	3
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Gulfstream G500	GULF5	BR700-710A1-10	4BR008	3
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Gulfstream IV-SP	GULF4-SP	TAY Mk611-8	1RR019	2
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Raytheon Beech 18	BEECH18	R-1820	R1820	1
AUS	AUSTIN-BERGSTROM INTL	Travis	48453	Raytheon Hawker 800	HS125-8	TFE731-3	1AS002	1
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Airbus A330-200 Series	A330-2	PW4168A	7PW082	2
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Antonov 124 Ruslan	AN124	D-36	1ZM001	6
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	2
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	5
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Boeing 757-200 Series	B757-2	PW2037	4PW072	1
BIF	BIGGS AAF (FORT BLISS)	El Paso	48141	Boeing MD-82	MD82	JT8D-217C	4PW070	5
BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1
BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	2
BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	Boeing MD-82	MD82	JT8D-217C	4PW070	4
BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	Bombardier Challenger 604	CL604	CF34-3B	5GE084	1
BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	15
BPT	SOUTHEAST TEXAS RGNL	Jefferson	48245	Saab 340-B	SAAB340-B	CT7-9B	CT79B	1,430
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	89
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	6
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	2
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	3
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	1
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	4
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	13

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	3
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Convair CV-580	CV580	501D22A	501D22	188
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	4
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	36
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	392
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1,846
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Gulfstream IV-SP	GULF4-SP	TAY Mk611-8	1RR019	2
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Lockheed C-130 Hercules	MIL-C130	T56-A-15	T56A15	6
BRO	BROWNSVILLE/SOUTH PADRE ISLAND INTL	Cameron	48061	Raytheon Hawker 800	HS125-8	TFE731-3	1AS002	2
BWD	BROWNWOOD RGNL	Brown	48049	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	258
CLL	EASTERWOOD FIELD	Brazos	48041	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	5
CLL	EASTERWOOD FIELD	Brazos	48041	ATR 72-200	ATR72-2	PW127	PW127	1,494
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	17
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	1
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	5
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	23
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	9

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing 757-200 Series	B757-2	PW2037	4PW072	4
CLL	EASTERWOOD FIELD	Brazos	48041	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	4
CLL	EASTERWOOD FIELD	Brazos	48041	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	1
CLL	EASTERWOOD FIELD	Brazos	48041	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	1
CLL	EASTERWOOD FIELD	Brazos	48041	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	199
CLL	EASTERWOOD FIELD	Brazos	48041	Cessna 750 Citation X	CNA750	AE3007C	6AL022	1
CLL	EASTERWOOD FIELD	Brazos	48041	Dornier 328-100 Series	DO328-1	PW119B	PW119B	1
CLL	EASTERWOOD FIELD	Brazos	48041	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	12
CLL	EASTERWOOD FIELD	Brazos	48041	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	241
CLL	EASTERWOOD FIELD	Brazos	48041	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	154
CLL	EASTERWOOD FIELD	Brazos	48041	Saab 340-B	SAAB340-B	CT7-9B	CT79B	2,079
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	2
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	907
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	7
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	85
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	601
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	6

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	2
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing MD-82	MD82	JT8D-217C	4PW070	15
CRP	CORPUS CHRISTI INTL	Nueces	48355	Boeing MD-87	MD87	JT8D-219	4PW071	6
CRP	CORPUS CHRISTI INTL	Nueces	48355	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	1
CRP	CORPUS CHRISTI INTL	Nueces	48355	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	176
CRP	CORPUS CHRISTI INTL	Nueces	48355	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	899
CRP	CORPUS CHRISTI INTL	Nueces	48355	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	4,803
DRT	DEL RIO INTL	Val Verde	48465	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	24
DRT	DEL RIO INTL	Val Verde	48465	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	3
DRT	DEL RIO INTL	Val Verde	48465	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	511
DRT	DEL RIO INTL	Val Verde	48465	Convair CV-580	CV580	501D22A	501D22	34
DRT	DEL RIO INTL	Val Verde	48465	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	1
DRT	DEL RIO INTL	Val Verde	48465	Saab 340-B	SAAB340-B	CT7-9B	CT79B	701
EFD	ELLINGTON FIELD	Harris	48201	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	1
EFD	ELLINGTON FIELD	Harris	48201	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	1
EFD	ELLINGTON FIELD	Harris	48201	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	1
EFD	ELLINGTON FIELD	Harris	48201	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
EFD	ELLINGTON FIELD	Harris	48201	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	1
EFD	ELLINGTON FIELD	Harris	48201	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	1
EFD	ELLINGTON FIELD	Harris	48201	Boeing 757-200 Series	B757-2	PW2037	4PW072	1
EFD	ELLINGTON FIELD	Harris	48201	Boeing 767-300 ER	B767-3ER	PW4060	1PW043	5
EFD	ELLINGTON FIELD	Harris	48201	Boeing MD-11	MD11	CF6-80C2D1F	2GE049	2
EFD	ELLINGTON FIELD	Harris	48201	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	8
EFD	ELLINGTON FIELD	Harris	48201	Lockheed C-130 Hercules	MIL-C130	T56-A-15	T56A15	2
ELP	EL PASO INTL	El Paso	48141	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	512
ELP	EL PASO INTL	El Paso	48141	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	79
ELP	EL PASO INTL	El Paso	48141	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	45
ELP	EL PASO INTL	El Paso	48141	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	7
ELP	EL PASO INTL	El Paso	48141	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	26
ELP	EL PASO INTL	El Paso	48141	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	101
ELP	EL PASO INTL	El Paso	48141	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	12
ELP	EL PASO INTL	El Paso	48141	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	5,915
ELP	EL PASO INTL	El Paso	48141	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	40
ELP	EL PASO INTL	El Paso	48141	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	665

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
ELP	EL PASO INTL	El Paso	48141	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	4,304
ELP	EL PASO INTL	El Paso	48141	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	36
ELP	EL PASO INTL	El Paso	48141	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	1
ELP	EL PASO INTL	El Paso	48141	Boeing 757-200 Series	B757-2	PW2037	4PW072	34
ELP	EL PASO INTL	El Paso	48141	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	264
ELP	EL PASO INTL	El Paso	48141	Boeing 767-300 ER	B767-3ER	PW4060	1PW043	3
ELP	EL PASO INTL	El Paso	48141	Boeing DC-10-10 Series	DC10-1	CF6-6D	1GE001	220
ELP	EL PASO INTL	El Paso	48141	Boeing DC-10-30 Series	DC10-3	CF6-50C2	3GE074	238
ELP	EL PASO INTL	El Paso	48141	Boeing DC-8 Series 70	DC8-7	CFM56-2B	CF562B	6
ELP	EL PASO INTL	El Paso	48141	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	85
ELP	EL PASO INTL	El Paso	48141	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	47
ELP	EL PASO INTL	El Paso	48141	Boeing DC-9-50 Series	DC9-5	JT8D-17	1PW013	1
ELP	EL PASO INTL	El Paso	48141	Boeing MD-11	MD11	CF6-80C2D1F	2GE049	127
ELP	EL PASO INTL	El Paso	48141	Boeing MD-82	MD82	JT8D-217C	4PW070	3,553
ELP	EL PASO INTL	El Paso	48141	Boeing MD-87	MD87	JT8D-219	4PW071	6
ELP	EL PASO INTL	El Paso	48141	Boeing MD-90	MD90	V2525-D5	1IA002	91
ELP	EL PASO INTL	El Paso	48141	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	2,097

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
ELP	EL PASO INTL	El Paso	48141	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	1,982
ELP	EL PASO INTL	El Paso	48141	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	1,381
ELP	EL PASO INTL	El Paso	48141	Convair CV-580	CV580	501D22A	501D22	283
ELP	EL PASO INTL	El Paso	48141	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	55
ELP	EL PASO INTL	El Paso	48141	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	296
ELP	EL PASO INTL	El Paso	48141	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1,754
ELP	EL PASO INTL	El Paso	48141	Embraer ERJ170	ERJ170	CF34-8E5	6GE094	1
ELP	EL PASO INTL	El Paso	48141	Embraer ERJ175	ERJ175	CF34-8E5	6GE094	15
ELP	EL PASO INTL	El Paso	48141	Lockheed C-130 Hercules	MIL-C130	T56-A-15	T56A15	1
GGG	EAST TEXAS RGNL	Gregg	48183	ATR 72-200	ATR72-2	PW127	PW127	818
GGG	EAST TEXAS RGNL	Gregg	48183	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	1
GGG	EAST TEXAS RGNL	Gregg	48183	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	4
GGG	EAST TEXAS RGNL	Gregg	48183	Boeing MD-82	MD82	JT8D-217C	4PW070	40
GGG	EAST TEXAS RGNL	Gregg	48183	Boeing MD-87	MD87	JT8D-219	4PW071	4
GGG	EAST TEXAS RGNL	Gregg	48183	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	1
GGG	EAST TEXAS RGNL	Gregg	48183	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	1
GGG	EAST TEXAS RGNL	Gregg	48183	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	13

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
GGG	EAST TEXAS RGNL	Gregg	48183	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	251
GRK	ROBERT GRAY AAF	Bell	48027	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	2
GRK	ROBERT GRAY AAF	Bell	48027	Antonov 124 Ruslan	AN124	D-36	1ZM001	19
GRK	ROBERT GRAY AAF	Bell	48027	ATR 72-200	ATR72-2	PW127	PW127	2,152
GRK	ROBERT GRAY AAF	Bell	48027	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	4
GRK	ROBERT GRAY AAF	Bell	48027	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	2
GRK	ROBERT GRAY AAF	Bell	48027	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	10
GRK	ROBERT GRAY AAF	Bell	48027	Boeing 747-200 Series	B747-2	CF6-50E2	3GE077	1
GRK	ROBERT GRAY AAF	Bell	48027	Boeing 747-400 Series	B747-4	PW4056	1PW042	1
GRK	ROBERT GRAY AAF	Bell	48027	Boeing 757-200 Series	B757-2	PW2037	4PW072	1
GRK	ROBERT GRAY AAF	Bell	48027	Boeing MD-11	MD11	CF6-80C2D1F	2GE049	1
GRK	ROBERT GRAY AAF	Bell	48027	Boeing MD-82	MD82	JT8D-217C	4PW070	14
GRK	ROBERT GRAY AAF	Bell	48027	Boeing MD-87	MD87	JT8D-219	4PW071	2
GRK	ROBERT GRAY AAF	Bell	48027	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	5
GRK	ROBERT GRAY AAF	Bell	48027	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	697
GRK	ROBERT GRAY AAF	Bell	48027	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	10
GRK	ROBERT GRAY AAF	Bell	48027	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	4

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
GRK	ROBERT GRAY AAF	Bell	48027	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	166
GRK	ROBERT GRAY AAF	Bell	48027	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1,236
GRK	ROBERT GRAY AAF	Bell	48027	Saab 340-B	SAAB340-B	CT7-9B	CT79B	1,722
HOU	WILLIAM P HOBBY	Harris	48201	Airbus A318-100 Series	A318-1	CFM56-5B8/P	7CM048	17
HOU	WILLIAM P HOBBY	Harris	48201	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	701
HOU	WILLIAM P HOBBY	Harris	48201	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	237
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	5
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	17,496
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	69
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	3,587
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	23,935
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	42
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	2
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 757-200 Series	B757-2	PW2037	4PW072	10
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 757-300 Series	B757-3	PW2043	PW2043	1
HOU	WILLIAM P HOBBY	Harris	48201	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	1
HOU	WILLIAM P HOBBY	Harris	48201	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	3

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
HOU	WILLIAM P HOBBY	Harris	48201	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	1
HOU	WILLIAM P HOBBY	Harris	48201	Boeing DC-9-50 Series	DC9-5	JT8D-17	1PW013	1,671
HOU	WILLIAM P HOBBY	Harris	48201	Boeing MD-82	MD82	JT8D-217C	4PW070	263
HOU	WILLIAM P HOBBY	Harris	48201	Bombardier Challenger 300	CL300	AE3007A1	6AL006	3
HOU	WILLIAM P HOBBY	Harris	48201	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	14
HOU	WILLIAM P HOBBY	Harris	48201	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	145
HOU	WILLIAM P HOBBY	Harris	48201	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	1,740
HOU	WILLIAM P HOBBY	Harris	48201	Bombardier Learjet 45	LEAR45	TFE731-2-2B	1AS001	2
HOU	WILLIAM P HOBBY	Harris	48201	Cessna 650 Citation III	CNA650	TFE731-3	1AS002	1
HOU	WILLIAM P HOBBY	Harris	48201	Cessna 750 Citation X	CNA750	AE3007C	6AL022	2
HOU	WILLIAM P HOBBY	Harris	48201	Dornier 328-100 Series	DO328-1	PW119B	PW119B	29
HOU	WILLIAM P HOBBY	Harris	48201	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	4
HOU	WILLIAM P HOBBY	Harris	48201	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	475
HOU	WILLIAM P HOBBY	Harris	48201	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	2,091
HOU	WILLIAM P HOBBY	Harris	48201	Embraer ERJ170	ERJ170	CF34-8E5	6GE094	98
HOU	WILLIAM P HOBBY	Harris	48201	Embraer ERJ190	ERJ190	CF34-10E	XCF10E	463
HOU	WILLIAM P HOBBY	Harris	48201	Gulfstream G200	GULF200	PW306A	7PW077	1

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
HOU	WILLIAM P HOBBY	Harris	48201	Gulfstream G450	GULF450	TAY 611-8C	6RR042	1
HOU	WILLIAM P HOBBY	Harris	48201	Gulfstream G500	GULF5	BR700-710A1-10	4BR008	8
HOU	WILLIAM P HOBBY	Harris	48201	Gulfstream IV-SP	GULF4-SP	TAY Mk611-8	1RR019	1
HOU	WILLIAM P HOBBY	Harris	48201	Israel IAI-1124-A Westwind II	IAI1124A	TFE731-3	1AS002	1
HRL	VALLEY INTL	Cameron	48061	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	249
HRL	VALLEY INTL	Cameron	48061	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	17
HRL	VALLEY INTL	Cameron	48061	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	16
HRL	VALLEY INTL	Cameron	48061	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	184
HRL	VALLEY INTL	Cameron	48061	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	1
HRL	VALLEY INTL	Cameron	48061	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1,451
HRL	VALLEY INTL	Cameron	48061	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	252
HRL	VALLEY INTL	Cameron	48061	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	143
HRL	VALLEY INTL	Cameron	48061	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1,602
HRL	VALLEY INTL	Cameron	48061	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	98
HRL	VALLEY INTL	Cameron	48061	Boeing 757-200 Series	B757-2	PW2037	4PW072	263
HRL	VALLEY INTL	Cameron	48061	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	258
HRL	VALLEY INTL	Cameron	48061	Boeing DC-8 Series 70	DC8-7	CFM56-2B	CF562B	3

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
HRL	VALLEY INTL	Cameron	48061	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	3
HRL	VALLEY INTL	Cameron	48061	Boeing MD-82	MD82	JT8D-217C	4PW070	301
HRL	VALLEY INTL	Cameron	48061	Boeing MD-87	MD87	JT8D-219	4PW071	5
HRL	VALLEY INTL	Cameron	48061	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	1
HRL	VALLEY INTL	Cameron	48061	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	6
HRL	VALLEY INTL	Cameron	48061	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1,657
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A300B4-100 Series	A300B4-1	CF6-50C2	3GE074	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	698
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A318-100 Series	A318-1	CFM56-5B8/P	7CM048	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	1,871
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	1,239
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A321-100 Series	A321-1	V2530-A5	1IA005	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A330-200 Series	A330-2	PW4168A	7PW082	3
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Airbus A340-300 Series	A340-3	CFM56-5C4	2CM015	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Antonov 12 Cub	AN12	T56 series I	T56-1	15
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Antonov 124 Ruslan	AN124	D-36	1ZM001	21

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	24
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1,399
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	2,172
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	13,906
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	12,297
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	43,859
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	15,655
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 747-100 Series	B747-1	JT9D-7A	1PW021	665
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 747-200 Series	B747-2	CF6-50E2	3GE077	136
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 747-400 Series	B747-4	PW4056	1PW042	1,385
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 757-200 Series	B757-2	PW2037	4PW072	2,874
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 757-300 Series	B757-3	PW2043	PW2043	6,890
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	1,795
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 767-300 ER	B767-3ER	PW4060	1PW043	459
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 767-400	B767-4	CF6-80C2B8FA	3GE058	2,421

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 777-200 Series	B777-2	PW4077	2PW061	2,900
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing 777-300 ER	B777-3ER	GE90-115B	7GE099	846
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-10-10 Series	DC10-1	CF6-6D	1GE001	336
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-10-30 Series	DC10-3	CF6-50C2	3GE074	43
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-8 Series 60	DC8-6	JT3D-7 series	1PW003	3
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-8 Series 70	DC8-7	CFM56-2B	CF562B	415
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	6
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing DC-9-50 Series	DC9-5	JT8D-17	1PW013	378
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing MD-11	MD11	CF6-80C2D1F	2GE049	345
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing MD-82	MD82	JT8D-217C	4PW070	3,424
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing MD-87	MD87	JT8D-219	4PW071	8
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Boeing MD-90	MD90	V2525-D5	1IA002	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Bombardier CRJ-100	CRJ1	CF34-3A1	1GE035	46
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	3,414
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	12,958
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	4,117

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	4,300
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	190
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Convair CV-580	CV580	501D22A	501D22	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	92,333
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Embraer ERJ170	ERJ170	CF34-8E5	6GE094	683
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Embraer ERJ175	ERJ175	CF34-8E5	6GE094	1,771
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Embraer ERJ190	ERJ190	CF34-10E	XCF10E	1,288
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Gulfstream G200	GULF200	PW306A	7PW077	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Gulfstream IV-SP	GULF4-SP	TAY Mk611-8	1RR019	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Ilyushin 76 Candid	IL76	D-30KP-2	1AA002	3
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Lockheed C-130 Hercules	MIL-C130	T56-A-15	T56A15	10
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Raytheon Hawker 800	HS125-8	TFE731-3	1AS002	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Harris	48201	Saab 340-B	SAAB340-B	CT7-9B	CT79B	14,607
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	316

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	329
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ATR 42-200	ATR42-2	PW120	PW120	63
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	ATR 72-200	ATR72-2	PW127	PW127	898
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	3
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	16
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	1
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1,937
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	3
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	201
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1,121
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	7
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	2
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 757-200 Series	B757-2	PW2037	4PW072	2
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing 767-300 ER	B767-3ER	PW4060	1PW043	1
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	3
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	7
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing MD-82	MD82	JT8D-217C	4PW070	16

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Boeing MD-87	MD87	JT8D-219	4PW071	5
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Bombardier CRJ-100	CRJ1	CF34-3A1	1GE035	4
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	1,026
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	2
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	1,361
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	6
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	106
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	3,716
LBB	LUBBOCK PRESTON SMITH INTL	Lubbock	48303	Raytheon Beech 18	BEECH18	R-1820	R1820	409
LJN	Lake Jackson, TX: Brazoria County	Brazoria	48039	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	54
LJN	Lake Jackson, TX: Brazoria County	Brazoria	48039	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	3
LRD	LAREDO INTL	Webb	48479	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	53
LRD	LAREDO INTL	Webb	48479	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	370
LRD	LAREDO INTL	Webb	48479	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	1
LRD	LAREDO INTL	Webb	48479	ATR 72-200	ATR72-2	PW127	PW127	1
LRD	LAREDO INTL	Webb	48479	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	201
LRD	LAREDO INTL	Webb	48479	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	152

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
LRD	LAREDO INTL	Webb	48479	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	240
LRD	LAREDO INTL	Webb	48479	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	69
LRD	LAREDO INTL	Webb	48479	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	51
LRD	LAREDO INTL	Webb	48479	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	1
LRD	LAREDO INTL	Webb	48479	Boeing 757-200 Series	B757-2	PW2037	4PW072	276
LRD	LAREDO INTL	Webb	48479	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	4
LRD	LAREDO INTL	Webb	48479	Boeing DC-8 Series 60	DC8-6	JT3D-7 series	1PW003	11
LRD	LAREDO INTL	Webb	48479	Boeing DC-8 Series 70	DC8-7	CFM56-2B	CF562B	230
LRD	LAREDO INTL	Webb	48479	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	493
LRD	LAREDO INTL	Webb	48479	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	250
LRD	LAREDO INTL	Webb	48479	Boeing MD-82	MD82	JT8D-217C	4PW070	207
LRD	LAREDO INTL	Webb	48479	Boeing MD-87	MD87	JT8D-219	4PW071	3
LRD	LAREDO INTL	Webb	48479	Convair CV-580	CV580	501D22A	501D22	171
LRD	LAREDO INTL	Webb	48479	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	171
LRD	LAREDO INTL	Webb	48479	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	40
LRD	LAREDO INTL	Webb	48479	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	538
LRD	LAREDO INTL	Webb	48479	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1,981

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
LRD	LAREDO INTL	Webb	48479	Lockheed C-130 Hercules	MIL-C130	T56-A-15	T56A15	23
MAF	MIDLAND INTL	Midland	48329	ATR 42-200	ATR42-2	PW120	PW120	27
MAF	MIDLAND INTL	Midland	48329	ATR 72-200	ATR72-2	PW127	PW127	670
MAF	MIDLAND INTL	Midland	48329	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1,672
MAF	MIDLAND INTL	Midland	48329	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	3
MAF	MIDLAND INTL	Midland	48329	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	199
MAF	MIDLAND INTL	Midland	48329	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	1,430
MAF	MIDLAND INTL	Midland	48329	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	17
MAF	MIDLAND INTL	Midland	48329	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	1
MAF	MIDLAND INTL	Midland	48329	Boeing 757-200 Series	B757-2	PW2037	4PW072	2
MAF	MIDLAND INTL	Midland	48329	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	7
MAF	MIDLAND INTL	Midland	48329	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	3
MAF	MIDLAND INTL	Midland	48329	Boeing MD-82	MD82	JT8D-217C	4PW070	11
MAF	MIDLAND INTL	Midland	48329	Boeing MD-87	MD87	JT8D-219	4PW071	3
MAF	MIDLAND INTL	Midland	48329	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	1,082
MAF	MIDLAND INTL	Midland	48329	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	6
MAF	MIDLAND INTL	Midland	48329	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	124

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
MAF	MIDLAND INTL	Midland	48329	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	51
MAF	MIDLAND INTL	Midland	48329	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	6
MAF	MIDLAND INTL	Midland	48329	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	209
MAF	MIDLAND INTL	Midland	48329	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	2,403
MAF	MIDLAND INTL	Midland	48329	Raytheon Beech 18	BEECH18	R-1820	R1820	191
MAF	MIDLAND INTL	Midland	48329	Raytheon Hawker 800	HS125-8	TFE731-3	1AS002	1
MAF	MIDLAND INTL	Midland	48329	Saab 340-B	SAAB340-B	CT7-9B	CT79B	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	683
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	221
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	346
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	6
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing 757-200 Series	B757-2	PW2037	4PW072	31

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	6
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	8
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Boeing MD-82	MD82	JT8D-217C	4PW070	1,871
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Bombardier CRJ-100	CRJ1	CF34-3A1	1GE035	1
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	12
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	701
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	200
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	673
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Convair CV-580	CV580	501D22A	501D22	8
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	10
MFE	MC ALLEN MILLER INTL	Hidalgo	48215	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	357
PIL	PORT ISABEL-CAMERON COUNTY	Cameron	48061	Convair CV-580	CV580	501D22A	501D22	1
SAT	SAN ANTONIO INTL	Bexar	48029	Airbus A300F4-600 Series	A300F4-6	PW4158	1PW048	546
SAT	SAN ANTONIO INTL	Bexar	48029	Airbus A310-200 Series	A310-2	CF6-80A3	1GE013	324
SAT	SAN ANTONIO INTL	Bexar	48029	Airbus A319-100 Series	A319-1	CFM56-5B6/P	3CM028	2,156
SAT	SAN ANTONIO INTL	Bexar	48029	Airbus A320-200 Series	A320-2	V2527-A5	1IA003	516
SAT	SAN ANTONIO INTL	Bexar	48029	Airbus A321-100 Series	A321-1	V2530-A5	1IA005	3

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 727-100 Series	B727-1	JT8D-7 series	1PW005	12
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 727-200 Series	B727-2	JT8D-15	1PW009	47
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	7
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	4,224
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	366
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-500 Series	B737-5	CFM56-3C-1	1CM007	2,077
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	11,697
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	1,328
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 737-900 Series	B737-9	CFM56-7B24	3CM032	376
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 747-200 Series	B747-2	CF6-50E2	3GE077	1
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 757-200 Series	B757-2	PW2037	4PW072	1,762
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 757-300 Series	B757-3	PW2043	PW2043	5
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 767-200 ER	B767-2ER	CF6-80A2	1GE012	1
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 767-300 ER	B767-3ER	PW4060	1PW043	2
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing 767-400	B767-4	CF6-80C2B8FA	3GE058	1
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing DC-10-10 Series	DC10-1	CF6-6D	1GE001	568
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing DC-10-30 Series	DC10-3	CF6-50C2	3GE074	100

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing DC-8 Series 70	DC8-7	CFM56-2B	CF562B	1
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	28
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing DC-9-30 Series	DC9-3	JT8D-7 series	1PW005	12
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing DC-9-50 Series	DC9-5	JT8D-17	1PW013	961
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing MD-11	MD11	CF6-80C2D1F	2GE049	33
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing MD-82	MD82	JT8D-217C	4PW070	7,849
SAT	SAN ANTONIO INTL	Bexar	48029	Boeing MD-87	MD87	JT8D-219	4PW071	11
SAT	SAN ANTONIO INTL	Bexar	48029	Bombardier Challenger 604	CL604	CF34-3B	5GE084	1
SAT	SAN ANTONIO INTL	Bexar	48029	Bombardier CRJ-100	CRJ1	CF34-3A1	1GE035	5
SAT	SAN ANTONIO INTL	Bexar	48029	Bombardier CRJ-200	CRJ2	CF34-3B	5GE084	955
SAT	SAN ANTONIO INTL	Bexar	48029	Bombardier CRJ-700	CRJ7	CF34-8C1	5GE083	4,553
SAT	SAN ANTONIO INTL	Bexar	48029	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	3,023
SAT	SAN ANTONIO INTL	Bexar	48029	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	234
SAT	SAN ANTONIO INTL	Bexar	48029	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	476
SAT	SAN ANTONIO INTL	Bexar	48029	Convair CV-580	CV580	501D22A	501D22	15
SAT	SAN ANTONIO INTL	Bexar	48029	Dassault Falcon 10	FAL10	TAY Mk620-15	1RR020	20
SAT	SAN ANTONIO INTL	Bexar	48029	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	1

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
SAT	SAN ANTONIO INTL	Bexar	48029	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	952
SAT	SAN ANTONIO INTL	Bexar	48029	Embraer ERJ170	ERJ170	CF34-8E5	6GE094	936
SAT	SAN ANTONIO INTL	Bexar	48029	Embraer ERJ175	ERJ175	CF34-8E5	6GE094	743
SAT	SAN ANTONIO INTL	Bexar	48029	Embraer ERJ190	ERJ190	CF34-10E	XCF10E	714
SAT	SAN ANTONIO INTL	Bexar	48029	Gulfstream G200	GULF200	PW306A	7PW077	1
SAT	SAN ANTONIO INTL	Bexar	48029	Gulfstream G500	GULF5	BR700-710A1-10	4BR008	1
SGR	SUGAR LAND RGNL	Fort Bend	48157	Gulfstream G500	GULF5	BR700-710A1-10	4BR008	1
SGR	SUGAR LAND RGNL	Fort Bend	48157	Raytheon Hawker 800	HS125-8	TFE731-3	1AS002	2
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	ATR 72-200	ATR72-2	PW127	PW127	1,201
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Boeing 737-100 Series	B737-1	JT8D-17	1PW012	3
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	3
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	12
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Boeing DC-8 Series 70	DC8-7	CFM56-2B	CF562B	1
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Boeing MD-82	MD82	JT8D-217C	4PW070	6
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Boeing MD-87	MD87	JT8D-219	4PW071	2
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Cessna 208 Caravan	CNA208	PT6A-114A	P6114A	275
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	1

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	8
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	102
SJT	SAN ANGELO RGNL/MATHIS FIELD	Tom Green	48451	Gulfstream G200	GULF200	PW306A	7PW077	1
SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	Boeing 737-700 Series	B737-7	CFM56-7B22	3CM031	2
SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	1
SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	Boeing 757-200 Series	B757-2	PW2037	4PW072	5
SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	Boeing MD-82	MD82	JT8D-217C	4PW070	2
SKF	LACKLAND AFB (KELLY FLD ANNEX)	Bexar	48029	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	1
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	ATR 72-200	ATR72-2	PW127	PW127	1,126
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Boeing 737-300 Series	B737-3	CFM56-3-B1	1CM004	1
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Boeing 737-400 Series	B737-4	CFM56-3B-2	1CM005	1
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	19
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Boeing DC-9-20 Series	DC9-2	JT8D-11	1PW008	1
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Boeing MD-82	MD82	JT8D-217C	4PW070	31
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Boeing MD-87	MD87	JT8D-219	4PW071	4
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Bombardier CRJ-900	CRJ9	CF34-8C5	6GE092	1
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	3

Airport Code	Facility Name	County	FIPS	Aircraft Description	Aircraft Code	Engine Description	Engine Code	Activity (LTO)
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	41
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	128
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Embraer ERJ170	ERJ170	CF34-8E5	6GE094	2
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Wichita	48485	Embraer ERJ175	ERJ175	CF34-8E5	6GE094	1
TYR	TYLER POUNDS RGNL	Smith	48423	ATR 72-200	ATR72-2	PW127	PW127	507
TYR	TYLER POUNDS RGNL	Smith	48423	Boeing 737-800 Series	B737-8	CFM56-7B26	3CM033	1
TYR	TYLER POUNDS RGNL	Smith	48423	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	1
TYR	TYLER POUNDS RGNL	Smith	48423	Embraer ERJ135	ERJ135	AE3007A1/3	6AL013	177
TYR	TYLER POUNDS RGNL	Smith	48423	Embraer ERJ140	ERJ140	AE3007A1E	6AL020	389
TYR	TYLER POUNDS RGNL	Smith	48423	Embraer ERJ145	ERJ145	AE3007A1E	6AL020	290
TYR	TYLER POUNDS RGNL	Smith	48423	Saab 340-B	SAAB340-B	CT7-9B	CT79B	1,444
VCT	VICTORIA RGNL	Victoria	48469	Bombardier Challenger 604	CL604	CF34-3B	5GE084	1
VCT	VICTORIA RGNL	Victoria	48469	Bombardier de Havilland Dash 8 Q400	DHC8Q-4	PW150A	PW150A	1
VCT	VICTORIA RGNL	Victoria	48469	Saab 340-B	SAAB340-B	CT7-9B	CT79B	688

Appendix B
Communication Log – Comprehensive Log of Communication Between ERG and Each Airport

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
ABI	ABILENE RGNL	Don Green	325-676-6367	Jennifer Sellers (ERG)	don.green@abilenetx.com	Janet Mangum	Email 1/23/2012 11:56 am	Don Green	
						Janet Mangum	Email returned--1/23/2012 3:17 pm	Don Green	Submitted 2011 operations data; no taxi time data.
RKP	ARANSAS CO	Gene Johnson/Airport Manager	361-790-0141	Jennifer Sellers (ERG)	manager@krkp.com	Janet Mangum	Email--1/23/2012 12:02 pm		
AUS	AUSTIN-BERGSTROM INTL	Stephen Dick/ Kane Carpenter	512-530-5541	Peter Ogbeide (TCEQ)	stephen.dick@austintexas.gov / kane.carpenter@ci.austin.tx.us	Janet Mangum	Email--1/23/2012 11:50 am	Stephen Dick	
						Janet Mangum	Email returned--1/23/2012 3:11 pm	Stephen Dick	Submitted 2009 report and noted that FAA would have the most recent data; taxi in 4 minutes and taxi out 3 minutes. ERG located 2011 activity overview.
LBX	BRAZORIA COUNTY	Jeff Bilyeu	979-849-5755	Peter Ogbeide (TCEQ)	jbilyeu@brazoria-county.com	Janet Mangum	Call/email--1/25/2012 3:27 pm	Sharon	Left message.
DWH	DAVID WAYNE HOOKS MEMORIAL	Roger Schmidt	281-376-5436	Peter Ogbeide (TCEQ)	rschmidt@hooksairport.com	Janet Mangum	Email--1/25/2012 3:04 pm	Roger Schmidt	
						Janet Mangum	Email returned--1/25/2012 5:14 pm	Roger Schmidt	Requires formal letter directly from TCEQ requesting data.

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
TPL	DRAUGHON-MILLER CENTRAL TEXAS RGNL	Sharon Rostovich/Airport Manager	254-298-5350	Jennifer Sellers (ERG)		Janet Mangum	Called--1/25/2012 3:30 pm	Sharon Rostovich	Left message.
						Janet Mangum	Call returned--1/25/2012 4:22 pm	Sharon Rostovich	Reported 48,825 annual operations for 2011; no taxi time data
GGG	EAST TEXAS RGNL	Rick Davis/Eugene Bolanowski	903-643-3031	Jennifer Sellers (ERG)	rick.davis@co.gregg.tx.us / Eugene.Bolanowski@co.gregg.tx.us	Janet Mangum	Email--1/25/2012 3:40 pm	Eugene Bolanowski	
						Janet Mangum	Email returned--1/25/2012 4:13 pm	Eugene Bolanowski	Submitted 2011 operations data for 2011; taxi time in/out 1 minute
CLL	EASTERWOOD FIELD	John Happ/Airport Manager	979-845-5103	Jennifer Sellers (ERG)	jhapp@tamu.edu	Janet Mangum	Email--1/23/2012 12:09 pm		
ELP	EL PASO INTL	Rick Venegas/Environmental Planner	915-599-6238	Jennifer Marik (ERG)	rick.venegas@elpasotexas.gov	Janet Mangum	Email--1/23/2012 11:54 am		
EFD	ELLINGTON FIELD	Jarrett Simmons	281-233-1842	Janet Mangum (ERG)	jarrett.simmons@houstontx.gov	Janet Mangum	Email--1/25/2012 2:37 pm		
									*see below for submittal notes.

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	Jarrett Simmons	281-233-1842	Janet Mangum (ERG)	jarrett.simmons@houstontx.gov	Janet Mangum	Email--1/25/2012 2:37 pm		
		Elaine Karnes (Southwest Airlines)	214-792-3572	Peter Ogbeide (TCEQ)	elaine.karnes@wnco.com	Jennifer Sellers	Email returned--2/20/2012 1:48		Submitted GSE counts; taxi times in/out 5 minutes.
									*see below for submittal notes.
GTU	GEORGETOWN MUNI	Travis Mclain/Airport Manager	512-930-3666/ 512-818-0418 (cell)	Jennifer Sellers (ERG)	travis.mclain@georgetown.org	Janet Mangum	Email--1/23/2012 12:04 pm		
TA90	GREEN ACRES	Ranson Fullinwider	409-931-1311	Peter Ogbeide (TCEQ)			Invalid phone number.		
AXH	HOUSTON-SOUTHWEST	Len Franklin	281-431-2583	Peter Ogbeide (TCEQ)	manager@houstonairport.com	Janet Mangum	Email--1/23/2012 12:11 pm		
T41	LA PORTE MUNI	David Mich	281-471-9650		mickd@laportetx.gov	Janet Mangum	Call/email--1/25/2012 3:19 pm	Jennifer	
LRD	LAREDO INTL	Jose Flores/Airport Manager	956-795-2000		jlflores@ci.laredo.tx.us	Janet Mangum	Call/email--1/25/2012 3:32 pm	Lucy	
CXO	LONE STAR EXECUTIVE	Scott Smith	936-539-7811	Peter Ogbeide (TCEQ)	scott.smith@mctx.org	Janet Mangum	Call/email--1/25/2012 3:13 pm	Mary	
						Jennifer Sellers	Email returned --3/2/2012 4:07 pm	Scott Smith	Submitted 2011 operations data; taxi times in/out 3 minutes.

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
LBB	LUBBOCK PRESTON SMITH INTL	James Loomis/Airport Manager	806-775-3126		jloomis@mylubbock.us	Janet Mangum	Call/email--1/25/2012 3:23 pm	Elsie	
MFE	MC ALLEN MILLER INTL	Kristi Salinas/Properties & Compliance Manager	956-681-1527	Jennifer Sellers (ERG)	ktsalinas@mcallen.net	Janet Mangum	Email--1/23/2012 12:06 pm		
MAF	MIDLAND INTL	Marv Esterly/Airport Manager	432-560-2200 x 3001	Jennifer Sellers (ERG)	mesterly@midlandtexas.gov	Janet Mangum	Email--1/23/2012 11:59 am		
F39 (GYI)	NORTH TEXAS RGNL/PERRIN FIELD	Mike Shahan	903-786-2904	Jennifer Sellers (ERG)	shahanm@co.grayson.tx.us	Janet Mangum	Email--1/23/2012 12:10 pm	Mike Shahan	
						Janet Mangum	Email returned--1/23/2012 1:00 pm	Mike Shahan	Will check with tower & forward results
						Janet Mangum	Email 1/23/2012 12:10 pm	Mike Shahan	
						Janet Mangum	Email returned--1/25/2012 10:20 am	Mike Shahan	Submitted 2011 operations data; taxi times in/out 5 minutes.
ODO	ODESSA-SCHLEMEYER FIELD	John Landgraf/Airport Manager	432-332-5058		lca@lcaodessa.com	Janet Mangum	Call/email--1/25/2012 3:35 pm	Lena	
						Jennifer Sellers	Call returned--2/17/2011	John Landgraf	Will estimate operation totals for 2011 and average taxi times.
						Jennifer Sellers	email--3/16/2012 1:02 pm	John Landgraf	

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
LVJ	PEARLAND RGNL	Andy Rivera	281-482-7551	Peter Ogbeide (TCEQ)	clover3@flash.net	Janet Mangum	Email--1/23/2012 11:58 am		
		Wayne Messinger			ginevan4@gmail.com	Jennifer Sellers	Email--2/10/2012 8:17 am	Wayne Messinger	
						Jennifer Sellers	Email returned--2/13/2012 3:12 pm	Wayne Messinger	Reported 120,000 annual operations for 2011; taxi time in/out 5 minutes.
AMA	RICK HUSBAND AMARILLO INTL	Patrick Rhodes	806-335-1671	Peter Ogbeide (TCEQ)	patrick.rhodes@amarillo.gov	Janet Mangum	Email-1/23/2012 12:00 pm	Patrick Rhodes	
						Janet Mangum	Call returned--1/24/2012 9:23 am	Patrick Rhodes	Will send general information.
						Janet Mangum	Email returned--2/1/2012 4:00 pm	Patrick Rhodes	Submitted 2011 operations data; taxi times in/out 2-4 minutes.
SJT	SAN ANGELO RGNL/MATHIS FIELD	Linda Clifton	325-659-6409	Jennifer Sellers (ERG)	linda.clifton@sanangelotexas.us	Janet Mangum	Email--1/23/2012 11:56 am		
		Alan Angers (American Airline)	817-931-5423	Peter Ogbeide (TCEQ)	alan.angers@aa.com	Jennifer Sellers	Email--2/10/2012 8:14 am		Sent TCEQ request letter and list of airports ERG needs 2011 data from.

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
HYI	SAN MARCOS MUNI	Stephen Alexander	512-216-6039	Jennifer Sellers (ERG)	salexander@texasaviationpartners.com	Janet Mangum	Email--1/23/2012 11:52 am	Stephen Alexander	
						Janet Mangum	Email returned--1/23/2012 4:47 pm	Stephen Alexander	Email advising Cassidy Berenato will provide data.
		Cassity Berenato	512-216-6039		cberenato@texasaviationpartners.com	Jennifer Sellers	Email returned--1/25/2012 2:40 pm	Cassidy Berenato	Submitted September-December 2011 operations data, noting that the FAA Tower opened September 2011.
						Jennifer Sellers	Email--2/15/2012 1:55 pm	Cassidy Berenato	
						Jennifer Sellers	Email returned--2/22/2012 11:32 am	Cassidy Berenato	Estimated 30,000 annual operations for 2011; no taxi time data.
GLS	SCHOLES INTL AT GALVESTON	Hud Hopkins	409-741-4609	Peter Ogbeide (TCEQ)	manager@houstonairport.com	Janet Mangum	Email--1/23/2012 12:05 pm		
SPS	SHEPPARD AFB/WICHITA FALLS MUNI	Sarah Johnson/Airport Manager	940-855-3623	Janet Mangum (ERG)	sarah.johnson@wichitafallstx.gov	Janet Mangum	Email--1/23/2012 11:53 am		
SGR	SUGAR LAND RGNL	Phillip W. Savko	281-275-2100	Peter Ogbeide (TCEQ)	psavko@sugarlandtx.gov	Janet Mangum	Email--1/23/2012 12:03 pm	Phillip W. Savko	
						Janet Mangum	Email returned--1/23/2012 1:00 pm	Phillip W. Savko	Reported 90,000 annual operations for 2011; taxi times in/out 3 minutes.

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
TYR	TYLER POUNDS RGNL	Cheryl Mcinnis	903-531-2343	Jennifer Sellers (ERG)	cmcinnis@tylertexas.com	Janet Mangum	Email--1/23/2012 12:07 pm		
HRL	VALLEY INTL	Bryan Wren		Jennifer Sellers (ERG)	bryan@flythevalley.com	Janet Mangum	Email--1/23/2012 12:08 pm	Bryan Wren	
						Janet Mangum	Email returned--1/23/2012 12:08 pm	Bryan Wren	Data not recorded at the airport level. Tower may have this data.
						Jennifer Sellers	Email--2/6/2012 12:03 pm	Bryan Wren	
						Jennifer Sellers	Email returned--2/13/2012 3:07 pm	Bryan Wren	Reported 39,624 annual operations for 2011; no taxi time data.
VCT	VICTORIA RGNL	Jason Milewski/Airport Manager	361-578-2704		jmilewski@prautes.com & sturner@flyvictoriatx.com	Janet Mangum	Call/email--1/25/2012 2:37 pm	Olivia	
EYQ	WEISER AIR PARK	Cecil Weiser	281-469-8227	Peter Ogbeide (TCEQ)		Janet Mangum	Called--1/25/2012 2:40 pm		Left message.
IWS	WEST HOUSTON	Woody Lesikar	281-492-2130	Peter Ogbeide (TCEQ)	woody@westhoustonairport.com	Janet Mangum	Call/email--1/25/2012 3:07 pm	Jeralyn	

State Facility Identifier	Facility Name	Contact Name	Number	Contact Source	Email Address	ERG Contact Name	Date/Time Contacted	Airport Contact Name	Response
HOU	WILLIAM P HOBBY	Jarrett Simmons	281-233-1842	Janet Mangum (ERG)	jarrett.simmons@houstontx.gov	Janet Mangum	Email--1/25/2012 2:37 pm		
		Elaine Karnes (Southwest Airlines)	214-792-3572	Peter Ogbeide (TCEQ)	elaine.karnes@wnco.com	Jennifer Sellers	Email--2/10/2012 8:29 am		
						Jennifer Sellers	Email returned--2/20/2012 1:48		Submitted GSE counts; taxi times in/out 5 minutes.
									*see below for submittal notes.
Houston Area Airports		Daniel Tisoncik (United Airlines)	872-825-6586	Peter Ogbeide (TCEQ)	dan.tisoncik@united.com	Jennifer Sellers	email 2/10/2012 8:23 am		
Houston Area Airports		James Parise (HAS)	281-233-1756	Peter Ogbeide (TCEQ)	jim.parise@houstontx.gov	Jennifer Sellers	email 2/10/2012 8:23 am		Will send the week of March 5, 2012
Houston Area Airports		James Parise (HAS)	281-233-1756	Peter Ogbeide (TCEQ)	jim.parise@houstontx.gov	Jennifer Sellers	Email returned--3/16/2012 4:51 am		Provided 2011 LTO data for HOU, EFD, IAH.

Appendix C
Houston Area Airports: 2011 Activity Submittal

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
EFD	ELLINGTON FIELD	A1B	IO360	40
EFD	ELLINGTON FIELD	A1B	IO360	75
EFD	ELLINGTON FIELD	A320-1	1IA003	20
EFD	ELLINGTON FIELD	A320-1	1IA003	37
EFD	ELLINGTON FIELD	B717-2	4BR002	20
EFD	ELLINGTON FIELD	B717-2	4BR002	37
EFD	ELLINGTON FIELD	B727-2	1PW013	380
EFD	ELLINGTON FIELD	B727-2	1PW013	1596
EFD	ELLINGTON FIELD	B737-3	1CM007	159
EFD	ELLINGTON FIELD	B737-3	1CM007	300
EFD	ELLINGTON FIELD	B737-5	1CM007	40
EFD	ELLINGTON FIELD	B737-5	1CM007	75
EFD	ELLINGTON FIELD	B737-7	3CM031	40
EFD	ELLINGTON FIELD	B737-7	3CM031	75
EFD	ELLINGTON FIELD	B737-8	3CM034	60
EFD	ELLINGTON FIELD	B737-8	3CM034	114
EFD	ELLINGTON FIELD	B757-2	4PW072	40
EFD	ELLINGTON FIELD	B757-2	4PW072	75
EFD	ELLINGTON FIELD	B767-2	1GE011	20
EFD	ELLINGTON FIELD	B767-2	1GE011	37
EFD	ELLINGTON FIELD	B767-3	1PW043	152
EFD	ELLINGTON FIELD	B767-3	1PW043	638
EFD	ELLINGTON FIELD	B777-2	2RR027	40
EFD	ELLINGTON FIELD	B777-2	2RR027	75
EFD	ELLINGTON FIELD	BEECH200	PT6A41	1924
EFD	ELLINGTON FIELD	BEECH200	PT6A41	3616
EFD	ELLINGTON FIELD	BEECH300	P660AG	2184
EFD	ELLINGTON FIELD	BEECH300	P660AG	4105
EFD	ELLINGTON FIELD	BEECH36	TIO540	500
EFD	ELLINGTON FIELD	BEECH36	TIO540	940
EFD	ELLINGTON FIELD	BEECH400	1PW037	480
EFD	ELLINGTON FIELD	BEECH400	1PW037	902
EFD	ELLINGTON FIELD	BEECH55	TIO540	240
EFD	ELLINGTON FIELD	BEECH55	TIO540	452
EFD	ELLINGTON FIELD	BEECH58	TIO540	421
EFD	ELLINGTON FIELD	BEECH58	TIO540	791
EFD	ELLINGTON FIELD	BEECH60	TIO540	221
EFD	ELLINGTON FIELD	BEECH60	TIO540	414
EFD	ELLINGTON FIELD	BEECH90	PT6A21	440
EFD	ELLINGTON FIELD	BEECH90	PT6A21	828
EFD	ELLINGTON FIELD	BEECH99	PT6A20	80
EFD	ELLINGTON FIELD	BEECH99	PT6A20	150
EFD	ELLINGTON FIELD	BELL206	250B17	1495
EFD	ELLINGTON FIELD	BELL206	250B17	1576
EFD	ELLINGTON FIELD	CL300	6AL006	40
EFD	ELLINGTON FIELD	CL300	6AL006	75
EFD	ELLINGTON FIELD	CL600	5GE084	201
EFD	ELLINGTON FIELD	CL600	5GE084	377

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
EFD	ELLINGTON FIELD	CNA172	IO320	1381
EFD	ELLINGTON FIELD	CNA172	IO320	2596
EFD	ELLINGTON FIELD	CNA182	IO360	461
EFD	ELLINGTON FIELD	CNA182	IO360	866
EFD	ELLINGTON FIELD	CNA206	IO360	60
EFD	ELLINGTON FIELD	CNA206	IO360	114
EFD	ELLINGTON FIELD	CNA208	P6114A	521
EFD	ELLINGTON FIELD	CNA208	P6114A	980
EFD	ELLINGTON FIELD	CNA210	TIO540	341
EFD	ELLINGTON FIELD	CNA210	TIO540	640
EFD	ELLINGTON FIELD	CNA310	TIO540	80
EFD	ELLINGTON FIELD	CNA310	TIO540	151
EFD	ELLINGTON FIELD	CNA340	TIO540	501
EFD	ELLINGTON FIELD	CNA340	TIO540	942
EFD	ELLINGTON FIELD	CNA414	TIO540	60
EFD	ELLINGTON FIELD	CNA414	TIO540	114
EFD	ELLINGTON FIELD	CNA421	TIO540	401
EFD	ELLINGTON FIELD	CNA421	TIO540	754
EFD	ELLINGTON FIELD	CNA425	PT6A60	20
EFD	ELLINGTON FIELD	CNA425	PT6A60	37
EFD	ELLINGTON FIELD	CNA441	TPE8	120
EFD	ELLINGTON FIELD	CNA441	TPE8	226
EFD	ELLINGTON FIELD	CNA500	1PW035	140
EFD	ELLINGTON FIELD	CNA500	1PW035	263
EFD	ELLINGTON FIELD	CNA501	1PW035	361
EFD	ELLINGTON FIELD	CNA501	1PW035	679
EFD	ELLINGTON FIELD	CNA525	1PW035	541
EFD	ELLINGTON FIELD	CNA525	1PW035	1017
EFD	ELLINGTON FIELD	CNA550	1PW036	380
EFD	ELLINGTON FIELD	CNA550	1PW036	714
EFD	ELLINGTON FIELD	CNA560	1PW037	380
EFD	ELLINGTON FIELD	CNA560	1PW037	714
EFD	ELLINGTON FIELD	CNA560-XL	1PW037	260
EFD	ELLINGTON FIELD	CNA560-XL	1PW037	488
EFD	ELLINGTON FIELD	CNA650	1AS002	401
EFD	ELLINGTON FIELD	CNA650	1AS002	754
EFD	ELLINGTON FIELD	CNA680	7PW080	40
EFD	ELLINGTON FIELD	CNA680	7PW080	75
EFD	ELLINGTON FIELD	CNA750	6AL022	321
EFD	ELLINGTON FIELD	CNA750	6AL022	603
EFD	ELLINGTON FIELD	COMMANDER690	TPE10	60
EFD	ELLINGTON FIELD	COMMANDER690	TPE10	112
EFD	ELLINGTON FIELD	CRJ2	5GE084	40
EFD	ELLINGTON FIELD	CRJ2	5GE084	75
EFD	ELLINGTON FIELD	DC3	R1820	20
EFD	ELLINGTON FIELD	DC3	R1820	37
EFD	ELLINGTON FIELD	DC9-1	1PW004	301
EFD	ELLINGTON FIELD	DC9-1	1PW004	565

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
EFD	ELLINGTON FIELD	ERJ140	6AL017	181
EFD	ELLINGTON FIELD	ERJ140	6AL017	339
EFD	ELLINGTON FIELD	ERJ145	6AL020	260
EFD	ELLINGTON FIELD	ERJ145	6AL020	488
EFD	ELLINGTON FIELD	FAL10	1AS001	481
EFD	ELLINGTON FIELD	FAL10	1AS001	904
EFD	ELLINGTON FIELD	FAL2000EX	7PW080	80
EFD	ELLINGTON FIELD	FAL2000EX	7PW080	151
EFD	ELLINGTON FIELD	FAL50	1AS002	281
EFD	ELLINGTON FIELD	FAL50	1AS002	528
EFD	ELLINGTON FIELD	FAL900	1AS002	80
EFD	ELLINGTON FIELD	FAL900	1AS002	151
EFD	ELLINGTON FIELD	GULF150	1AS002	60
EFD	ELLINGTON FIELD	GULF150	1AS002	114
EFD	ELLINGTON FIELD	GULF2	MK511	20
EFD	ELLINGTON FIELD	GULF2	MK511	37
EFD	ELLINGTON FIELD	GULF4	1RR019	401
EFD	ELLINGTON FIELD	GULF4	1RR019	754
EFD	ELLINGTON FIELD	GULF5	4BR008	100
EFD	ELLINGTON FIELD	GULF5	4BR008	188
EFD	ELLINGTON FIELD	HS125-1	1AS002	20
EFD	ELLINGTON FIELD	HS125-1	1AS002	37
EFD	ELLINGTON FIELD	HS125-7	1AS002	722
EFD	ELLINGTON FIELD	HS125-7	1AS002	1357
EFD	ELLINGTON FIELD	IAI1124	1AS002	80
EFD	ELLINGTON FIELD	IAI1124	1AS002	151
EFD	ELLINGTON FIELD	J31	TPE10	281
EFD	ELLINGTON FIELD	J31	TPE10	528
EFD	ELLINGTON FIELD	JETSTAR-II/731	1AS002	40
EFD	ELLINGTON FIELD	JETSTAR-II/731	1AS002	75
EFD	ELLINGTON FIELD	LEAR24	CJ6106	120
EFD	ELLINGTON FIELD	LEAR24	CJ6106	226
EFD	ELLINGTON FIELD	LEAR25	CJ6106	80
EFD	ELLINGTON FIELD	LEAR25	CJ6106	151
EFD	ELLINGTON FIELD	LEAR31	1AS001	100
EFD	ELLINGTON FIELD	LEAR31	1AS001	188
EFD	ELLINGTON FIELD	LEAR35	1AS001	280
EFD	ELLINGTON FIELD	LEAR35	1AS001	527
EFD	ELLINGTON FIELD	LEAR40	1AS001	120
EFD	ELLINGTON FIELD	LEAR40	1AS001	226
EFD	ELLINGTON FIELD	LEAR45	1AS001	40
EFD	ELLINGTON FIELD	LEAR45	1AS001	75
EFD	ELLINGTON FIELD	LEAR55	1AS002	100
EFD	ELLINGTON FIELD	LEAR55	1AS002	188
EFD	ELLINGTON FIELD	LEAR60	TFE731	80
EFD	ELLINGTON FIELD	LEAR60	TFE731	151
EFD	ELLINGTON FIELD	MIL-AH1S	T5311D	748
EFD	ELLINGTON FIELD	MIL-AH1S	T5311D	788

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
EFD	ELLINGTON FIELD	MIL-F16	F10010	1247
EFD	ELLINGTON FIELD	MIL-F16	F10010	1314
EFD	ELLINGTON FIELD	MIL-T38	J855HA	12962
EFD	ELLINGTON FIELD	MIL-T38	J855HA	13662
EFD	ELLINGTON FIELD	MOONEY-M20K	TSIO36	340
EFD	ELLINGTON FIELD	MOONEY-M20K	TSIO36	640
EFD	ELLINGTON FIELD	MU2	TPE10N	120
EFD	ELLINGTON FIELD	MU2	TPE10N	226
EFD	ELLINGTON FIELD	P180	PT6A60	100
EFD	ELLINGTON FIELD	P180	PT6A60	188
EFD	ELLINGTON FIELD	PA24	TIO540	40
EFD	ELLINGTON FIELD	PA24	TIO540	75
EFD	ELLINGTON FIELD	PA28	IO360	60
EFD	ELLINGTON FIELD	PA28	IO360	112
EFD	ELLINGTON FIELD	PA30	IO320	20
EFD	ELLINGTON FIELD	PA30	IO320	37
EFD	ELLINGTON FIELD	PA31	TIO540	140
EFD	ELLINGTON FIELD	PA31	TIO540	263
EFD	ELLINGTON FIELD	PA31T	PT6A28	360
EFD	ELLINGTON FIELD	PA31T	PT6A28	678
EFD	ELLINGTON FIELD	PA32	TIO540	341
EFD	ELLINGTON FIELD	PA32	TIO540	640
EFD	ELLINGTON FIELD	PA34	IO360	501
EFD	ELLINGTON FIELD	PA34	IO360	942
EFD	ELLINGTON FIELD	PA42	TPE10N	40
EFD	ELLINGTON FIELD	PA42	TPE10N	75
EFD	ELLINGTON FIELD	PA46T	PT6A42	340
EFD	ELLINGTON FIELD	PA46T	PT6A42	639
EFD	ELLINGTON FIELD	PC12	PT67B	181
EFD	ELLINGTON FIELD	PC12	PT67B	339
EFD	ELLINGTON FIELD	PREMIER	1PW035	60
EFD	ELLINGTON FIELD	PREMIER	1PW035	114
EFD	ELLINGTON FIELD	SA227AT	TPE10N	1283
EFD	ELLINGTON FIELD	SA227AT	TPE10N	2411
EFD	ELLINGTON FIELD	SABR40	CF700D	2664
EFD	ELLINGTON FIELD	SABR40	CF700D	5007
EFD	ELLINGTON FIELD	SR20	IO360	40
EFD	ELLINGTON FIELD	SR20	IO360	75
EFD	ELLINGTON FIELD	SR22	TIO540	181
EFD	ELLINGTON FIELD	SR22	TIO540	339
EFD	ELLINGTON FIELD	TBM700	PT6A64	140
EFD	ELLINGTON FIELD	TBM700	PT6A64	263
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	1PW048	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	1PW048	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	1PW048	246

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	2GE039	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300B4-6	3GE056	17
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A300C4-6	2GE039	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	1GE013	103
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	1PW028	51
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	1PW044	51
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A310-2	1PW045	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A318-1	7CM048	237
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3CM027	579
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3CM028	193
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3IA006	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3IA006	753
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3IA007	17
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	3IA007	25
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	4CM036	274
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A319-1	4CM036	2529
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1CM008	164
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1IA001	253
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1IA003	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1IA003	175
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1IA003	376
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	1IA003	616
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A320-1	2CM014	38
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A330-2	7PW082	0

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A330-3	3RR030	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A340-3	1CM010	110
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A340-3	2CM015	221
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A340-3	2CM015	224
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	A340-6	6RR041	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	AN12	T56-1	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	AN124	1ZM001	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ATR42-5	PW127E	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B707-3	TF3310	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-1	1PW004	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW005	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW007	7
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW007	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW009	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW010	6
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW010	65
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW011	7
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW013	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW013	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW014	65
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	1PW016	25
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	4PW070	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B727-2	4PW070	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-2	1PW010	470

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-2	1PW011	35
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-2	1PW011	235
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-2	1PW013	35
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-2	1PW014	35
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM004	180
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM004	366
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM004	829
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM004	21150
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM005	294
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM007	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	1CM007	1017
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-3	CF563B	815
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-4	1CM005	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-4	1CM007	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-4	1CM007	46
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-5	1CM004	278
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-5	1CM007	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-5	1CM007	712
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-5	1CM007	19113
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM031	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM031	214
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM031	676
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-7	3CM032	8908
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	3CM033	28062

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	3CM034	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	3CM034	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-8	3CM034	1784
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-9	3CM033	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-9	3CM033	6039
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B737-9	3CM034	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-1	1PW021	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-1	1PW021	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1GE009	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1GE009	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1PW024	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1PW024	3
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1PW025	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-2	1PW025	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	1GE024	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	1GE024	40
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	1GE024	465
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	1PW042	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	2GE045	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B747-4	4RR037	79
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	3RR028	185
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	3RR028	404
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	3RR034	7328
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	4PW072	0

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	4PW072	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-2	4PW073	185
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-3	3RR034	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B757-3	3RR034	3105
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2	1GE010	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2	1GE010	228
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2	1GE011	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-2	2GE047	565
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-3	1PW043	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-3	2GE055	8
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-3	2GE055	48
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-4ER	3GE058	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B767-4ER	3GE058	1986
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	2RR027	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	3GE061	1525
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	5GE086	37
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	5RR040	245
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	6GE089	183
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	6GE090	110
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	6GE091	33
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2	7GE097	16
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-2LR	7GE097	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	5GE086	18
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	5RR040	121

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	6GE089	91
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	6GE090	55
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	6GE091	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	B777-3	7GE099	59
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BAC111-2	MK511	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH100	PT6A28	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH1900-C	PT67D	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH200	PT6A41	271
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH300	P660AG	138
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH36	TIO540	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH400	1PW037	166
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH55	TIO540	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH58	TIO540	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH90	PT6A21	104
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	BEECH99	PT6A20	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CL300	6AL006	76
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CL600	5GE084	15
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA172	IO320	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA182	IO360	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA206	IO360	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA208	P6114A	176
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA402	TIO540	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA414	TIO540	24
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA421	TIO540	14

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA425	PT6A60	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA441	TPE8	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA500	1PW035	28
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA501	1PW035	204
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA525	1PW035	53
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA550	1PW036	152
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA551	1PW036	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA560	1PW037	637
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA560-XL	1PW037	124
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA650	1AS002	81
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA680	7PW080	209
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CNA750	6AL022	257
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	COMMANDER680	TIO540	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	COMMANDER690	TPE10	57
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	1GE035	458
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	16
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	61
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	257
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	360
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ2	5GE084	1055
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE083	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE083	50

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE083	556
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE083	977
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE083	1247
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE084	440
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	5GE084	977
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	6GE092	993
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ7	6GE092	1831
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ705-LR	6GE092	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ9	6GE092	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CRJ9	6GE092	384
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	CV580	501D22	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-1	1GE001	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-1	1GE001	229
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-1	3GE078	76
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC10-3	3GE078	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC8-6	1PW003	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC8-7	1CM002	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC8-7	1CM003	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC8-7	1CM003	174
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-1	1PW005	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-3	1PW005	276
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-3	1PW007	414
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-3	1PW010	115
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DC9-5	1PW013	12

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DHC8Q-4	PW150A	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	DO328JET	7PW078	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	EMB120	PW118A	1992
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	EMB120	PW118B	1992
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ135	6AL012	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ140	6AL012	149
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ140	6AL017	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ140	6AL017	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ140	6AL017	10871
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	4AL003	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	4AL003	3
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	4AL003	253
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	4AL003	55158
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	6AL020	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	6AL020	3
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ145	6AL020	40975
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ170	6GE094	186
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ175	6GE094	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	ERJ190	6GE094	2
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	F27	RDA7	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL10	1AS001	38
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL2000EX	7PW080	337
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL20-C	1AS002	57
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL20-C	CF700D	6

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IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL50	1AS002	228
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	FAL900	1AS002	71
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GLOBALEXPRESS	4BR005	166
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF100	1AS002	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF150	1AS002	24
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF2	MK511	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF200	7PW077	34
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF3	MK511	38
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF4	1RR019	741
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	GULF5	4BR008	319
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-1	1AS002	62
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-1000	TFE731	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-3	1AS002	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	HS125-7	1AS002	556
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IAI1124	1AS002	85
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IAI1125	1AS002	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	IAI1126	7PW077	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	JETSTAR-I	CF700D	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR24	CJ6106	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR25	CJ6106	4
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR25	CJ6106	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR31	1AS001	38
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR35	1AS001	271
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR40	1AS001	19

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR45	1AS001	200
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR55	1AS002	34
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	LEAR60	TFE731	157
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	1GE031	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	1GE031	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	1PW052	1
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD11	1PW058	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD82	4PW070	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD82	4PW070	15
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD82	4PW070	35
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD82	4PW070	1291
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD82	4PW070	2763
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD83	4PW070	964
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD87	1PW019	468
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD88	1PW019	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MD90	1IA002	80
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-AH1S	T5311D	128
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-C17A	F1171	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MIL-T38	J855HA	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MOONEY-M20K	TSIO36	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MU2	TPE10N	19
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	MU300	1PW037	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	P180	PT6A60	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PA31	TIO540	0

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IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PA31T	PT6A28	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PA42	TPE10N	5
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PA46T	PT6A42	9
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PC12	PT67B	57
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	PREMIER	1PW035	24
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	SAAB340-B	CT7-5	8353
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	SAAB340-B	CT79B	0
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	SABR40	CF700D	14
IAH	GEORGE BUSH INTERCONTINENTAL/HOUSTON	WB57	TF3333	0
HOU	WILLIAM P HOBBY	A1B	IO360	3
HOU	WILLIAM P HOBBY	A319-1	3IA006	4
HOU	WILLIAM P HOBBY	B717-2	4BR002	187
HOU	WILLIAM P HOBBY	B717-2	4BR002	352
HOU	WILLIAM P HOBBY	B717-2	4BR002	2643
HOU	WILLIAM P HOBBY	B737-2	1PW010	7
HOU	WILLIAM P HOBBY	B737-2	1PW010	127
HOU	WILLIAM P HOBBY	B737-2	1PW010	259
HOU	WILLIAM P HOBBY	B737-2	1PW011	64
HOU	WILLIAM P HOBBY	B737-2	1PW011	130
HOU	WILLIAM P HOBBY	B737-3	1CM004	31930
HOU	WILLIAM P HOBBY	B737-3	1CM007	0
HOU	WILLIAM P HOBBY	B737-3	1CM007	2023
HOU	WILLIAM P HOBBY	B737-5	1CM004	15830
HOU	WILLIAM P HOBBY	B737-5	1CM007	121
HOU	WILLIAM P HOBBY	B737-5	1CM007	662
HOU	WILLIAM P HOBBY	B737-7	3CM031	1750
HOU	WILLIAM P HOBBY	B737-7	3CM031	15342
HOU	WILLIAM P HOBBY	B737-8	3CM033	16
HOU	WILLIAM P HOBBY	B737-8	3CM033	827
HOU	WILLIAM P HOBBY	B737-8	3CM034	9
HOU	WILLIAM P HOBBY	B737-9	3CM033	6
HOU	WILLIAM P HOBBY	B747-2	1PW025	7
HOU	WILLIAM P HOBBY	B757-2	3RR028	3
HOU	WILLIAM P HOBBY	B757-2	4PW072	6
HOU	WILLIAM P HOBBY	B757-3	3RR034	4
HOU	WILLIAM P HOBBY	BAE146-100	1TL002	3
HOU	WILLIAM P HOBBY	BEECH100	PT6A28	118
HOU	WILLIAM P HOBBY	BEECH1900-C	PT67D	4
HOU	WILLIAM P HOBBY	BEECH200	PT6A41	1418
HOU	WILLIAM P HOBBY	BEECH300	P660AG	1229

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HOU	WILLIAM P HOBBY	BEECH36	TIO540	177
HOU	WILLIAM P HOBBY	BEECH400	1PW037	865
HOU	WILLIAM P HOBBY	BEECH55	TIO540	46
HOU	WILLIAM P HOBBY	BEECH58	TIO540	269
HOU	WILLIAM P HOBBY	BEECH60	TIO540	52
HOU	WILLIAM P HOBBY	BEECH90	PT6A21	929
HOU	WILLIAM P HOBBY	BEECH99	PT6A20	132
HOU	WILLIAM P HOBBY	BELL206	250B17	4
HOU	WILLIAM P HOBBY	CL300	6AL006	396
HOU	WILLIAM P HOBBY	CL600	5GE084	785
HOU	WILLIAM P HOBBY	CNA172	IO320	180
HOU	WILLIAM P HOBBY	CNA182	IO360	64
HOU	WILLIAM P HOBBY	CNA206	IO360	24
HOU	WILLIAM P HOBBY	CNA208	P6114A	20
HOU	WILLIAM P HOBBY	CNA210	TIO540	49
HOU	WILLIAM P HOBBY	CNA310	TIO540	22
HOU	WILLIAM P HOBBY	CNA340	TIO540	20
HOU	WILLIAM P HOBBY	CNA414	TIO540	95
HOU	WILLIAM P HOBBY	CNA421	TIO540	103
HOU	WILLIAM P HOBBY	CNA425	PT6A60	11
HOU	WILLIAM P HOBBY	CNA441	TPE8	117
HOU	WILLIAM P HOBBY	CNA500	1PW035	95
HOU	WILLIAM P HOBBY	CNA501	1PW035	797
HOU	WILLIAM P HOBBY	CNA525	1PW035	362
HOU	WILLIAM P HOBBY	CNA550	1PW036	1181
HOU	WILLIAM P HOBBY	CNA551	1PW036	18
HOU	WILLIAM P HOBBY	CNA560	1PW037	1578
HOU	WILLIAM P HOBBY	CNA560-XL	1PW037	1056
HOU	WILLIAM P HOBBY	CNA650	1AS002	474
HOU	WILLIAM P HOBBY	CNA680	7PW080	368
HOU	WILLIAM P HOBBY	CNA750	6AL022	978
HOU	WILLIAM P HOBBY	COMMANDER690	TPE10	103
HOU	WILLIAM P HOBBY	CRJ2	5GE084	1263
HOU	WILLIAM P HOBBY	CRJ7	5GE084	397
HOU	WILLIAM P HOBBY	DC9-1	1PW004	6
HOU	WILLIAM P HOBBY	DHC8-1	PW120A	6
HOU	WILLIAM P HOBBY	DO328-1	PW119B	342
HOU	WILLIAM P HOBBY	ERJ140	6AL012	342
HOU	WILLIAM P HOBBY	ERJ140	6AL017	192
HOU	WILLIAM P HOBBY	ERJ140	AE3A13	114
HOU	WILLIAM P HOBBY	ERJ145	4AL003	27
HOU	WILLIAM P HOBBY	ERJ145	4AL003	57
HOU	WILLIAM P HOBBY	ERJ145	4AL003	2436
HOU	WILLIAM P HOBBY	ERJ145	6AL020	41
HOU	WILLIAM P HOBBY	ERJ145	6AL020	202
HOU	WILLIAM P HOBBY	ERJ145	6AL020	1809
HOU	WILLIAM P HOBBY	FAL10	1AS001	89
HOU	WILLIAM P HOBBY	FAL2000EX	7PW080	669

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HOU	WILLIAM P HOBBY	FAL20-C	1AS002	76
HOU	WILLIAM P HOBBY	FAL50	1AS002	364
HOU	WILLIAM P HOBBY	FAL900	1AS002	174
HOU	WILLIAM P HOBBY	GLOBALEXPRESS	4BR005	31
HOU	WILLIAM P HOBBY	GULF100	1AS002	114
HOU	WILLIAM P HOBBY	GULF150	1AS002	232
HOU	WILLIAM P HOBBY	GULF2	MK511	660
HOU	WILLIAM P HOBBY	GULF200	7PW077	210
HOU	WILLIAM P HOBBY	GULF3	MK511	325
HOU	WILLIAM P HOBBY	GULF4	1RR019	732
HOU	WILLIAM P HOBBY	GULF5	4BR008	388
HOU	WILLIAM P HOBBY	H4000	7PW079	2
HOU	WILLIAM P HOBBY	HS125-1	1AS002	130
HOU	WILLIAM P HOBBY	HS125-1000	1AS002	60
HOU	WILLIAM P HOBBY	HS125-7	1AS002	2186
HOU	WILLIAM P HOBBY	IAI1124	1AS002	694
HOU	WILLIAM P HOBBY	J31	TPE10	35
HOU	WILLIAM P HOBBY	JETSTAR-II/731	1AS002	15
HOU	WILLIAM P HOBBY	LEAR24	CJ6106	17
HOU	WILLIAM P HOBBY	LEAR25	CJ6106	103
HOU	WILLIAM P HOBBY	LEAR31	1AS001	496
HOU	WILLIAM P HOBBY	LEAR35	1AS001	496
HOU	WILLIAM P HOBBY	LEAR40	1AS001	192
HOU	WILLIAM P HOBBY	LEAR45	1AS001	1736
HOU	WILLIAM P HOBBY	LEAR55	1AS002	321
HOU	WILLIAM P HOBBY	LEAR60	TFE731	396
HOU	WILLIAM P HOBBY	MD11	1GE031	2
HOU	WILLIAM P HOBBY	MD82	4PW070	26
HOU	WILLIAM P HOBBY	MD82	4PW070	282
HOU	WILLIAM P HOBBY	MD82	4PW070	1092
HOU	WILLIAM P HOBBY	MD83	4PW070	557
HOU	WILLIAM P HOBBY	MIL-AH1S	T5311D	2066
HOU	WILLIAM P HOBBY	MOONEY-M20K	TSIO36	47
HOU	WILLIAM P HOBBY	MU2	TPE10N	141
HOU	WILLIAM P HOBBY	MU300	1PW037	92
HOU	WILLIAM P HOBBY	P180	PT6A60	280
HOU	WILLIAM P HOBBY	PA23	TIO540	2
HOU	WILLIAM P HOBBY	PA24	TIO540	2
HOU	WILLIAM P HOBBY	PA28	IO360	14
HOU	WILLIAM P HOBBY	PA30	IO320	2
HOU	WILLIAM P HOBBY	PA31	TIO540	17
HOU	WILLIAM P HOBBY	PA31T	PT6A28	108
HOU	WILLIAM P HOBBY	PA32	TIO540	18
HOU	WILLIAM P HOBBY	PA34	IO360	24
HOU	WILLIAM P HOBBY	PA42	TPE10N	9
HOU	WILLIAM P HOBBY	PA46T	PT6A42	117
HOU	WILLIAM P HOBBY	PC12	PT67B	658
HOU	WILLIAM P HOBBY	PREMIER	1PW035	214

State Facility Identifier	Facility Name	Aircraft Type (ACCODE)	ENGINE (UID)	LTO
HOU	WILLIAM P HOBBY	SA226TC	TPE10N	4
HOU	WILLIAM P HOBBY	SA227AT	TPE10N	80
HOU	WILLIAM P HOBBY	SABR40	CF700D	67
HOU	WILLIAM P HOBBY	SR20	IO360	2
HOU	WILLIAM P HOBBY	SR22	TIO540	32
HOU	WILLIAM P HOBBY	TBM700	PT6A64	46
HOU	WILLIAM P HOBBY	TRIN	TIO540	2

Appendix D
2011 Operations Data: Lonestar Executive Airport
Submitted as Annual Totals by Specific Aircraft Type Categories

Aircraft Type Identifier	Manufacturer/Name	Operations
A139	Agusta Westland 139	1
A36	Beechcraft Bonanza A36	2
A55	Beechcraft Baron A55	1
AA5	Grumman American AA5	26
AA5A	Grumman Cheetah AA5A	4
AC11	Rockwell Commander 112	40
AC12	Rockwell Aero Commander 112	2
AC50	Rockwell Commander 500	4
AC56	Rockwell Commander 560	1
AC90	Rockwell Turbo Commander 690	3
AC95	Rockwell Turbo Commander 695	10
AEST	Aerostart 600	1
ASTR	IAI 1125 Astra	66
B17	Boeing B17 Flying Fortress	1
B350	Beech 350 Super King Air	12
B36T	Beech 36T Bonanza	1
BE10	Beech 100 King Air	18
BE20	Beech 200 Super King Air	86
BE23	Beech 23 Musketeer	5
BE24	Beech Musketeer Super	5
BE30	Beech 300 Super King Air	4
BE33	Beech 33 Debonair	48
BE35	Beech 35 Bonanza	83
BE36	Beech 36 Bonanza	420
BE40	Beech 40 BeechJet	53
BE55	Beech 55 Baron	45
BE58	Beech 58 Baron	69
Be60	Beech 60 Duke	14
BE76	Beech 76 Duchess	14
BE90	Beech 90 King Air	3
BE95	Beech 95 Travel Air	13
BE9L	Beech 90 King Air	34
BE9T	Beech King Air (F90)	4
BL17	Bellanca Viking	5
BL8	P	1
C140	Cessna 140	1
C150	Cessna 150 Commuter	7
C152	Cessna 152 Aerobat	5
C170	Cessna 170	1
C172	Cessna 172 Skyhawk	291
C177	Cessna 177 Cardinal	46
C180	Cessna 180 Skywagon	5
C182	Cessna 182 Skylane	138
C185	Cessna 185 Skywagon	16
C195	Cessna 195 Businessliner	6
C206	Cessna 206 Stationair	53
C208	Cessna 208 Grand Caravan	10
C210	Cessna 210 Centurion	122
C25A	Cessna 525A Citation CJ2	12

Aircraft Type Identifier	Manufacturer/Name	Operations
C25B	Cessna 525B Citation CJ3	27
C310	Cessna 310	43
C320	Cessna 320	2
C340	Cessna 340	84
C402	Cessna 402	4
C414	Cessna 414	20
C421	Cessna 421 Golden Eagle	121
C425	Cessna 425 Corsair	8
C441	Cessna 441 Conquest 2	15
C500	Cessna 500 Citation 1	8
C501	Cessna 501 Citation 1SP	36
C510	Cessna 510 Citation Mustang	8
C525	Cessna 525 Citationjet 1	58
C550	Cessna 550 Citation 2	80
C560	Cessna 560 Citation 5 Ultra	64
C56X	Cessna 560X Citation Excel	46
C650	Cessna 650 Citation 3, 6, 7	42
C680	Cessna 680 Citation Sovereign	15
C72R	Cessna 172RG Cutlass	5
C750	Cessna 750 Citation X	17
C77R	Cessna 177RG Cardinal RG	7
C82R	Cessna 182R	32
C82T	Cessna 182T Skylane	1
CH7A	Bellanca 7 Champion	1
CL30	Canadair Bombadier Challenger 300	6
CL60	Canadair Challenger 600	11
COL3	Cessna 350	1
COL4	Cessna 400	19
DA40	Diamond DA40 Diamond Star	93
DHC6	De Havilland Canada DHC-6	4
E100		1
E50P	Embraer Phenom 100	6
E55P	Embraer Phenom 300	2
EA50	Eclipse 500	10
EC35	Eurocopter EC-135	2
EXP		19
EXPT		1
F900	Dassault Falcon 900	2
FA10	Dassault Falcon 10	12
FA20	Dassault Falcon 20	2
FA50	Dassault Falcon 50	4
G115	Grob G 115	3
G150	IAI Gulfstream G150	5
G185	J	1
GALX	IAI 1126 Galaxy	2
GC1B	Temco GC-1B Swift	1
GCI		1
GLAS	Stoddard-Hamilton Glasair	4
GLF4	Gulfstream 4	45

Aircraft Type Identifier	Manufacturer/Name	Operations
GLF5	Gulfstream 5	9
H25	Hawker Siddeley HS-125	1
H25A	Hawker Siddeley HS-125-400	3
H25B	Raytheon Bae-125-700/800	148
H25C	Raytheon Bae-125-1000	2
HS25	J	3
HXB	P	16
HXC	P	3
IR23	P	2
KIS4		1
L29B	J	27
L39	Aero (2) L39	1
LANL		2
LEG2	P	2
LGEZ	P	1
LJ25	Lear Jet Learjet 25	5
LJ31	Lear Jet Learjet 31	30
LJ35	Lear Jet Learjet 35	14
LJ40	Lear Jet Learjet 40	8
LJ45	Lear Jet Learjet 45	11
LJ55	Lear Jet Learjet 55	2
LJ60	Lear Jet Learjet 60	18
LNC4	Lancair 4	1
M020	Mooney Mark 20	1
M20	Mooney M20	6
M20C	Mooney M20C Ranger	1
M20E	Mooney M20E Super	1
M20F	Mooney M20F Executive	1
M20G	Mooney M20G Statesman	1
M20P	Mooney M20P	144
M20R	Mooney M20R Ovation	1
M20T	Mooney M20T Predator	7
M7	P	1
Maul	P	2
MO20	P	45
MO21	P	1
MO2C	P	1
MO2E	P	1
MO2J	P	1
MU2	TP	218
N41	P	2
P180	Piaggio P-180 Avanti	42
P20R	P	1
P210	Cessna P210 Pressurized Centurion	6
P28	P	3
P28A	Piper Cherokee (PA-28-140/150/160/180)	162
P28B	Piper PA-28-235 Cherokee Charger	32
P28C	P	1
P28R	Piper PA-28R-180 Cherokee Arrow	37

Aircraft Type Identifier	Manufacturer/Name	Operations
P28T	Piper-28RT-201T Turbo Arrow 4	6
P32	P	2
P32R	P	89
P23T	Piper PA-32RT-300 Lance 2	2
P337	p	1
P34	P	1
P34T	P	1
P46T	Piper PA-46-500TP Malibu Meridian	151
P51	P	1
P51A	P	1
P60	P	1
P68	Vulaniar Observer	2
PA18	Piper PA-18 Super Cub	1
PA23	Piper PA-23 Apache	3
PA24	Piper PA-24	21
PA27	Piper PA-27 Aztec	12
PA28	Piper PA-28 Cherokee	76
PA30	Piper PA-30 Twin Commanche	32
PA31	Piper PA-31 Navajo	74
PA32	Piper PA-32 Cherokee Six	270
PA34	Piper PA-34 Seneca	75
PA35	Piper PA-35 Pocono	1
PA38	Piper PA-38 Tomahawk	1
PA44	Piper PA-44 Seminole	10
PA46	Piper PA-46 Malibu	130
PA60	Piper PA-60 Aerostar	4
PARO	Piper Cherokee Arrow	1
PASE		1
PAY1	Piper Cheyenne 1 TP	22
PAY2	Piper Cheyenne 2 TP	11
PAY3	Piper Cheyenne 3 TP	2
PAYE	Piper Cheyenne TP	4
PC12	Pilatus PC-12 Eagle	85
PRM1	Raytheon Premier 1	68
RB1	Raytheon RB1	2
RC70	Rockwell Commander 710	2
RV10	Vans Aircraft RV-10	7
RV4	Vans Aircraft RV-4	2
RV6	Vans Aircraft RV-6	21
RV66	Vans Aircraft RV-66	1
RV6A	Vans Aircraft RV-6A	2
RV8	Vans Aircraft RV-8	3
RV8G	Vans Aircraft RV-8G	2
SBR1	Rockwell NA-265 Sabre 60	8
SR20	Cirrus SR20	53
SR22	Cirrus SR22	103
SW2	Swearingen SA-26 Merlin 2	8
SW3	Swearingen Merlin 3	57
SW4	Swearingen Metroliner	2

Aircraft Type Identifier	Manufacturer/Name	Operations
SWFT	P	1
T34P	Pratt 7 Whitney T34 TP	5
TBM7	Socata TBM-700	6
TBM8	Socata TBM-850	2
U16	Gloster Meteor U16	2
VELO	P	1
WW24	IAI 1124 Westwind	64
BLK		926
Unknown		140