FINAL

ENVIRONMENTAL ASSESSMENT FOR THE UPDATE AND IMPLEMENTATION OF THE TOTAL FORCE TRAINING MISSION FOR VISITING UNITS (OPERATION SNOWBIRD, MULTI-SERVICE, AND FOREIGN MILITARY SALES) DAVIS-MONTHAN AIR FORCE BASE, ARIZONA



APPENDIX B AIR QUALITY CALCULATIONS

EDMS 5.1 Model Inputs for OSB Study

Study Created: Wed May 07 14:09:09 2014 Report Date: Thu May 08 13:45:59 2014

Study Pathname: K:\Projects\80850102_Snowbird_EA\Air_Analysis\OSB_NAA\OSB_NAA.edm

Study Setup

Unit System:

Dispersion Modeling: Dispersion is not enabled for this study

Speciated Hydrocarbon Modeling: Speciated Hydrocarbon Modeling is not enabled for this study

Analysis Years:

Scenarios

Scenario Name: Description:

Alt 1 Aircraft Times in Mode Basis:

Taxi Time Modeling:

FOA3 Sulfur-to-Sulfate Conversion Rate:

Scenario Name: Description:

Aircraft Times in Mode Basis: Taxi Time Modeling:

FOA3 Sulfur-to-Sulfate Conversion Rate:

Scenario Name: Description:

Baseline Aircraft Times in Mode Basis:

Taxi Time Modeling:

FOA3 Sulfur-to-Sulfate Conversion Rate:

Update and Implement Total Force Training to Include FMS Aircraft (Preferred Alternative)

Performance-Based

User-specified Taxi Times

2.400000 %

Update and Implement Total Force Training with Limited FMS Aircraft

Performance-Based User-specified Taxi Times

2.400000 %

Continuation of Total Force Training at 2009 Levels (No Action Alternative)

Performance-Based User-specified Taxi Times

2.400000 %

Airports

Airport Name: Davis Monthan A F B

IATA Code: DMA ICAO Code: KDMA FAA Code: Country: US State: Arizona

Tucson City:

Airport Description: Davis Monthan AFB 32.166° Latitude: -110.883° Longitude: Northing: 3558893.53 Easting: 511017.69 UTM Zone:

2704.00 feet Flevation:

FOA3a (Sulfur-to-Sulfate Conversion Rate = 5.0%, Fuel Sulfur Content = 0.068%) PM Modeling Methodology:

Scenario-Airport: Alt 1, Davis Monthan A F B

Weather Alt 1, Davis Monthan A F B

Mixing Height: 3000.00 feet Temperature: 68.00 °F Daily High 78.35 °F Temperature:

Daily Low 57.65 °F

Temperature:

29.92 inches of Hg Pressure: Sea Level Pressure: 29.89 inches of Hg

Relative Humidity: Wind Speed: 6.81 knots 0.00° Wind Direction: Ceiling: 99999.99 feet Visibility: 50.00 miles The user has used annual averages. Base Elevation: 2704.00 feet

Date Range: Thursday, January 01, 2004 to Friday, December 31, 2004

Source Data File

Location:

Upper Air Data File

Quarter-Hourly Operational Profiles

Alt 1, Davis Monthan A F B

Name: DEFAULT

Quarter-Hour Weight Quarter-Hour Weight Quarter-Hour Weight Quarter-Hour Weight

12:00am to 12:14 am	1.000000	6:00am to 6:14am	1.000000	12:00pm to 12:14 pm	1.000000	6:00pm to 6:14pm	1.000000
12:15am to 12:29 am	1.000000	6:15am to 6:29am	1.000000	12:15pm to 12:29 pm	1.000000	6:15pm to 6:29pm	1.000000
12:30am to 12:44 am	1.000000	6:30am to 6:44am	1.000000	12:30pm to 12:44 pm	1.000000	6:30pm to 6:44pm	1.000000
12:45am to 12:59 am	1.000000	6:45am to 6:59am	1.000000	12:45pm to 12:59 pm	1.000000	6:45pm to 6:59pm	1.000000
1:00am to 1:14am	1.000000	7:00am to 7:14am	1.000000	1:00pm to 1:14pm	1.000000	7:00pm to 7:14pm	1.000000
1:15am to 1:29am	1.000000	7:15am to 7:29am	1.000000	1:15pm to 1:29pm	1.000000	7:15pm to 7:29pm	1.000000
1:30am to 1:44am	1.000000	7:30am to 7:44am	1.000000	1:30pm to 1:44pm	1.000000	7:30pm to 7:44pm	1.000000
1:45am to 1:59am	1.000000	7:45am to 7:59am	1.000000	1:45pm to 1:59pm	1.000000	7:45pm to 7:59pm	1.000000
2:00am to 2:14am	1.000000	8:00am to 8:14am	1.000000	2:00pm to 2:14pm	1.000000	8:00pm to 8:14pm	1.000000
2:15am to 2:29am	1.000000	8:15am to 8:29am	1.000000	2:15pm to 2:29pm	1.000000	8:15pm to 8:29pm	1.000000
2:30am to 2:44am	1.000000	8:30am to 8:44am	1.000000	2:30pm to 2:44pm	1.000000	8:30pm to 8:44pm	1.000000
2:45am to 2:59am	1.000000	8:45am to 8:59am	1.000000	2:45pm to 2:59pm	1.000000	8:45pm to 8:59pm	1.000000
3:00am to 3:14am	1.000000	9:00am to 9:14am	1.000000	3:00pm to 3:14pm	1.000000	9:00pm to 9:14pm	1.000000
3:15am to 3:29am	1.000000	9:15am to 9:29am	1.000000	3:15pm to 3:29pm	1.000000	9:15pm to 9:29pm	1.000000
3:30am to 3:44am	1.000000	9:30am to 9:44am	1.000000	3:30pm to 3:44pm	1.000000	9:30pm to 9:44pm	1.000000
3:45am to 3:59am	1.000000	9:45am to 9:59am	1.000000	3:45pm to 3:59pm	1.000000	9:45pm to 9:59pm	1.000000
4:00am to 4:14am	1.000000	10:00am to 10:14am	1.000000	4:00pm to 4:14pm	1.000000	10:00pm to 10:14pm	1.000000
4:15am to 4:29am	1.000000	10:15am to 10:29am	1.000000	4:15pm to 4:29pm	1.000000	10:15pm to 10:29pm	1.000000
4:30am to 4:44am	1.000000	10:30am to 10:44am	1.000000	4:30pm to 4:44pm	1.000000	10:30pm to 10:44pm	1.000000
4:45am to 4:59am	1.000000	10:45am to 10:59am	1.000000	4:45pm to 4:59pm	1.000000	10:45pm to 10:59pm	1.000000
5:00am to 5:14am	1.000000	11:00am to 11:14am	1.000000	5:00pm to 5:14pm	1.000000	11:00pm to 11:14pm	1.000000
5:15am to 5:29am	1.000000	11:15am to 11:29am	1.000000	5:15pm to 5:29pm	1.000000	11:15pm to 11:29pm	1.000000
5:30am to 5:44am	1.000000	11:30am to 11:44am	1.000000	5:30pm to 5:44pm	1.000000	11:30pm to 11:44pm	1.000000
5:45am to 5:59am	1.000000	11:45am to 11:59am	1.000000	5:45pm to 5:59pm	1.000000	11:45pm to 11:59pm	1.000000

Daily Operation	onal Profiles			Alt 1, Davis Monthan A F B
Name: DEFAULT				
Day	Weight	Day	Weight	
Monday	1.000000	Friday	1.000000	
Tuesday	1.000000	Saturday	1.000000	
Wednesday	1.000000	Sunday	1.000000	
Thursday	1.000000			

Monthly Ope	rational Profiles			Alt 1, Davis Monthan A F B
Name: DEFAUL	Γ			
Month	Weight	Month	Weight	
January	1.000000	July	1.000000	
February	1.000000	August	1.000000	
March	1.000000	September	1.000000	
April	1.000000	October	1.000000	
May	1.000000	November	1.000000	
June	1.000000	December	1.000000	

Aircraft Alt 1, Davis Monthan A F B

Default Taxi Out Time: 19.000000 min
Default Taxi In Time: 7.000000 min

Year: Uses Schedule? Schedule Filename:

2013 No (None)

Aircraft Name:
Boeing F-15 Eagle
Engine Type:
F100-PW-220 (w/AB)
Identification:
F-15
Category:
LMJA

Take Off weight:

Approach Weight:

Glide Slope:

APU Assignment:

APU Arrival OP Time:

Gate Assignment:

None

13.00 min

13.00 min

None

None

Horsepower Manufactured Arrival Op Time Departure Op Load Factor **FUEL** Assigned GSE/AGE: (%) (mins) Time (mins) (hp) Year 5.00 5.00 25.00 50.00 Cart (Taylor Dunn) Diesel

Generator (Generic) Diesel 0.00 120.00 158.00 82.00 115.00 Lift (Generic) 50.00 Diesel 5.00 5.00 Other (Generic) 0.00 0.00 140.00 50.00 Diesel Year: **Annual Departures:** 54 2013 54 **Annual Arrivals:** Annual TGOs: 0 Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model Departure Quarter-Hourly Operational profile: DEFAULT **DEFAULT** Departure Daily Operational Profile: Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DFFAULT** Touch & Go Monthly Operational Profile: **DEFAULT** Aircraft Name: Take Off weight: 11340.00 Kgs Boeing F/A-18 Hornet Approach Weight: 9525.00 Kgs Engine Type: Glide Slope: 3.00° F404-GE-400 Identification: APU Assignment: None F/A-18E/F APU Departure OP Time: 13.00 min Category: APU Arrival OP Time: 13.00 min LMJA Gate Assignment: None Arrival Op Time Departure Op Manufactured Horsepower Load Factor Assigned GSE/AGE: **FUEL** (mins) Time (mins) (hp) (%) Cart (Taylor Dunn) Diesel 5.00 5.00 25.00 50.00 Generator (Generic) Diesel 0.00 120.00 158.00 82.00 5.00 Lift (Generic) Diesel 5.00 115.00 50.00 Other (Generic) 0.00 0.00 140.00 50.00 Diesel Year: **Annual Departures:** 110 2013 **Annual Arrivals:** 110 Annual TGOs: 0 Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DFFAULT** Touch & Go Monthly Operational Profile: **DEFAULT** Aircraft Name: Take Off weight: 23587.00 Kgs Fairchild A-10A Thunderbolt II 18144.00 Kgs Approach Weight: Engine Type: TF34-GE-100-100A Glide Slope: 3.00° Identification: APU Assignment: None A-10 APU Departure OP Time: 13.00 min Category: APU Arrival OP Time: 13.00 min LMJA Gate Assignment: None Departure Op Arrival Op Time Horsepower Load Factor Manufactured Assigned GSE/AGE: **FUEL** (mins) Time (mins) (hp) (%) Cart (Taylor Dunn) Diesel 5.00 5.00 25.00 50.00

Generator (Generic) Diesel 0.00 120.00 158.00 82.00 115.00 Lift (Generic) 50.00 Diesel 5.00 5.00 Other (Generic) 0.00 0.00 140.00 50.00 Diesel Year: **Annual Departures:** 490 2013 490 **Annual Arrivals:** Annual TGOs: Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model Departure Quarter-Hourly Operational profile: DEFAULT **DEFAULT** Departure Daily Operational Profile: Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DFFAULT** Touch & Go Monthly Operational Profile: **DEFAULT** Aircraft Name: Take Off weight: 59874.00 Kgs Lockheed C-130 Hercules Approach Weight: 55111.00 Kgs Engine Type: Glide Slope: 3.00° T56-A-15 Identification: APU Assignment: None C-130H/J APU Departure OP Time: 13.00 min Category: APU Arrival OP Time: 13.00 min **LMTC** Gate Assignment: None Arrival Op Time Departure Op Manufactured Horsepower Load Factor Assigned GSE/AGE: **FUEL** (mins) Time (mins) (hp) (%) Cart (Taylor Dunn) Diesel 5.00 5.00 25.00 50.00 Generator (Generic) Diesel 0.00 120.00 158.00 82.00 5.00 Lift (Generic) Diesel 5.00 115.00 50.00 Other (Generic) 0.00 0.00 140.00 50.00 Diesel Year: 95 **Annual Departures:** 2013 **Annual Arrivals:** 95 Annual TGOs: 0 Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT DEFAULT** Departure Monthly Operational Profile: Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DFFAULT** Touch & Go Monthly Operational Profile: **DEFAULT** Aircraft Name: Take Off weight: 11340.00 Kgs Lockheed Martin F-16 Fighting Falcon Approach Weight: 9525.00 Kgs Engine Type: F100-PW-200 (w/AB) Glide Slope: 3.00° Identification: APU Assignment: None F-16 APU Departure OP Time: 13.00 min Category: APU Arrival OP Time: 13.00 min SMJA Gate Assignment: None Departure Op Arrival Op Time Horsepower Load Factor Manufactured Assigned GSE/AGE: **FUEL** (mins) Time (mins) (hp) (%) Cart (Taylor Dunn) Diesel 5.00 5.00 25.00 50.00

	Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
	Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
	Other (Generic)	Diesel	0.00	0.00	140.00	50.00	
Year:	Annual Departures:		1136				
2013	Annual Arrivals:		1136				
	Annual TGOs:		0				
	Taxi Out Time:		Determined by Sequen	icing model			
	Taxi In Time:		Determined by Sequen	icing model			
	Departure Quarter-Hourly Op	•	DEFAULT				
	Departure Daily Operational		DEFAULT				
	Departure Monthly Operation		DEFAULT DEFAULT				
	Arrival Quarter-Hourly Opera Arrival Daily Operational Pro		DEFAULT				
	Arrival Monthly Operational F		DEFAULT				
	Touch & Go Quarter-Hourly profile:		DEFAULT				
	Touch & Go Daily Operation	al Profile:	DEFAULT				
	Touch & Go Monthly Operati	onal Profile:	DEFAULT				
Aircraft Name:	Take Off weight:	11340.00 Kg	s				
Lockheed Martin F-16 Fighting Falcon Engine Type:	Approach Weight:	9525.00 Kgs					
F100-PW-200 (w/AB)	Glide Slope:	3.00°					
Identification: F-16 equivalents	APU Assignment:	None					
Category:	APU Departure OP Time:	13.00 min					
SMJA	APU Arrival OP Time:	13.00 min					
	Gate Assignment:	None					
	Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
	Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
	Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
	Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
	Other (Generic)	Diesel	0.00	0.00	140.00	50.00	
Year:	Annual Departures:		366				
2013	Annual Arrivals:		366				
	Annual TGOs:		0				
	Taxi Out Time:		Determined by Sequen	-			
	Taxi In Time:		Determined by Sequen	icing model			
	Departure Quarter-Hourly Op	perational profile:	DEFAULT				
	Departure Daily Operational	Profile:	DEFAULT				
	Departure Monthly Operation	nal Profile:	DEFAULT				
	Arrival Quarter-Hourly Opera	tional profile:	DEFAULT				
	Arrival Daily Operational Pro		DEFAULT				
	Arrival Monthly Operational F Touch & Go Quarter-Hourly		DEFAULT				
	profile:		DEFAULT				
	Touch & Go Daily Operations Touch & Go Monthly Operati		DEFAULT DEFAULT				
Aircraft Name: Sikorsky CH-53E Super Stallion	Take Off weight:	16783.00 Kg					
Engine Type:	Approach Weight:	16783.00 Kg	S				
T64-GE-100 Identification:	Glide Slope:	3.00°					
HH-60	APU Assignment:	None					
Category:	APU Departure OP Time: APU Arrival OP Time:	13.00 min 13.00 min					
LMTH	Gate Assignment:	None					
	Assistant OOF/AOF	- FLIE	Arrival Op Time	Departure Op	Horsepower	Load Factor	Manufactured
	Assigned GSE/AGE:	FUEL	(mins)	Time (mins)	(hp)	(%)	Year

Year: Annual Departures: 75 2013 Annual Arrivals: 75 Annual TGOs: 0 Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT** Touch & Go Monthly Operational Profile: **DEFAULT GSE** Population Alt 1, Davis Monthan A F B Type: Fuel: Ref. Model: Identification: Air Conditioner Electric #1 75.00 hp Rated Power: Load Factor: 75.00% The user has selected to use the default age distribution, and has not chosen a specific age. Analysis Year: 2013 Year of Manufacture: N/A N/A Age: Gate: Percent Year: Population: 2 units 2013 Yealry Operating Time: 1000.00 hours Quarter-Hourly Operational DEFAULT profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT Type: Fuel: Ref. Model: Identification: Aircraft Tractor Gasoline #1 617.00 hp Rated Power: 80.00% Load Factor: The user has selected to use the default age distribution, and has not chosen a specific age. Analysis Year: 2013 Year of Manufacture: N/A N/A Age: Gate: Percent Year: 1 units Population: 2013 Yealry Operating Time: 300.00 hours Quarter-Hourly Operational **DEFAULT** Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT Fuel: Ref. Model: Identification: Type: Dukes Transportation **Fuel Truck** Gasoline Services / **DART 8000 to** 10,000 gallon Rated Power: 300.00 hp

Load Factor:

25.00%

The user has selected to use the default age distribution, and has not chosen a specific age. Analysis Year: Year of Manufacture: N/A N/A Age: Gate: Percent Year: Population: 6 units 2013 150.00 hours Yealry Operating Time: Quarter-Hourly Operational **DEFAULT** profile: **DEFAULT** Daily Operational profile: Monthly Operational Profile: DEFAULT Ref. Model: Fuel: Identification: Type: **Ground Power Unit** Gasoline TLD #1 Rated Power: 75.00 hp Load Factor: 75.00% The user has selected to use the default age distribution, and has not chosen a specific age. Analysis Year: 2013 N/A Year of Manufacture: N/A Age: Gate: Percent Year: 3 units Population: 2013 Yealry Operating Time: 1000.00 hours Quarter-Hourly Operational **DEFAULT** profile: **DEFAULT** Daily Operational profile: Monthly Operational Profile: DEFAULT **Parking Facilities** Alt 1, Davis Monthan A F B None. Roadways Alt 1, Davis Monthan A F B Roadway Name: Vehicle Type: Default Fleet Mix (all types, fuels & ages) Roadway Fuel: Gasoline Manufactured Year: Average Speed: 45 mph Roadway Length: 20.00 miles Release Height: Width: 65.62 feet Point: X (feet) Y (feet) Elevation (feet) 0 1 0.00 0.00 2 328.08 0.00 0 Year: Traffic Volume: 0 2013 Quarter-Hourly Operational DEFAULT profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT The user has NOT edited the following emission factors: CO (g/veh): 7.025 THC (g/veh): -1 NMHC (g/veh): 0.495 VOC (g/veh): 0.501 NOX (g/veh): 0.874 SOX (g/veh): 0.0089 PM-10 (g/veh): 0.0355 PM-25 (g/veh): 0.0201

TOG (g/veh):

BENZENE (g/veh): 0.015607 MTBE (g/veh): 0 1,3-BUTA (g/veh): 0.002122 FORMALDEHYDE (g/veh): 0.005603 ACETALDEHYDE (g/veh): 0.004042

ACROLEIN (g/veh):

Stationary Sources Alt 1, Davis Monthan A F B

Stationary Source Name: Boiler/Space Heater

Stationary Category: Boiler/Space Heater

0.000243

Stationary Type: Bituminous Coal: Pulverized, Dry Bottom, Wall Fired, Pre-NSPS

This stationary source is modeled as a point

Elevation: 2704.00 feet 65.62 feet Release Height: Gas Velocity: 15.00 m/s Temperature: 400.00 °F

CO EI: 0.2500Kg/Metric Ton TNMOC EI: 0.0300Kg/Metric Ton NOx EI: 11.0000Kg/Metric Ton SOx EI: 19.0000Kg/Metric Ton -

1.1500Kg/Metric Ton - 0X1.4D9300P-PM-10 EI: 880sh

Fuel Sulfur Content: 2.16 % Fuel Ash Content: 11.12 % CO Pollution Control Factor: 0.00 % TNMOC Pollution Control Factor: 0.00 % NOx Pollution Control Factor: 0.00 % SOx Pollution Control Factor: 0.00 % PM-10 Pollution Control Factor: 0.00 %

Point: Y (feet) X (feet) 0.00 0.00

Year: 2013

Metric Tons Used

Quarter-Hourly Operational **DEFAULT**

profile:

Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT

The user has NOT edited the emission factors.

Stationary Source Name: **Engine Test**

Stationary Category: Aircraft Engine Testing Engine of My Aircraft Stationary Type:

This stationary source is modeled as a point

Elevation: 2704.00 feet Release Height: 65.62 feet 15.00 m/s Gas Velocity: Temperature: 400.00 °F

Time at 30Power: 0.000000minutes/cycle Time at 85Power: 0.000000minutes/cycle Time at 100Power: 0.000000minutes/cycle Time at 7Power: 0.000000minutes/cycle

Point: X (feet) Y (feet) 0.00 0.00

Year: 2013

Test Cycles 12

Quarter-Hourly Operational

DEFAULT profile: **DEFAULT** Daily Operational profile: Monthly Operational Profile: DEFAULT

The user has edited the emission factors.

Stationary Source Name: Fuel Tank

Stationary Category: Stationary Type:

Fuel Tank

Horizontal: Jet Naphtha (JP-4)

This stationary source is modeled as a point Elevation: 2704.00 feet 65.62 feet Release Height: Gas Velocity: 15.00 m/s Temperature: 400.00 °F Shell Length: 0.00000meters 0.000000meters Shell Diameter: Point: X (feet) Y (feet) 0.00 0.00 1 Year: Kiloliters Used 450 2013 Quarter-Hourly Operational **DEFAULT** profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT The user has edited the emission factors. **Training Fires** Alt 1, Davis Monthan A F B None. Gates Alt 1, Davis Monthan A F B None. **Taxiways** Alt 1, Davis Monthan A F B None. Alt 1. Davis Monthan A F B Runways Runway Name: Glide Slope (°) Name: X (feet) Y (feet) Elevation (feet) 0.00 0.00 2704.00 3.00 Runway Name: Name: X (feet) Y (feet) Elevation (feet) Glide Slope (°) 19 0.00 0.00 2704.00 3.00 **Taxipaths** Alt 1, Davis Monthan A F B None. Configurations Alt 1, Davis Monthan A F B None. Buildings Alt 1, Davis Monthan A F B None. Discrete Cartesian Receptors Alt 1, Davis Monthan A F B None. Discrete Polar Receptors Alt 1, Davis Monthan A F B None. Cartesian Receptor Networks Alt 1, Davis Monthan A F B Alt 1, Davis Monthan A F B Polar Receptor Networks None. **User-Created Aircraft** Alt 1, Davis Monthan A F B None. **User-Created GSE** Alt 1, Davis Monthan A F B None. **User-Created APU** Alt 1, Davis Monthan A F B None.

Scenario-Airport: Alt 2, Davis Monthan A F B

Weather Alt 2, Davis Monthan A F B

Mixing Height: 3000.00 feet 68.00 °F Temperature: Daily High Temperature: 78.35 °F

Daily Low 57.65 °F Temperature:

Pressure: 29.92 inches of Hg Sea Level Pressure: 29.89 inches of Hg

Relative Humidity: 33.22 Wind Speed: 6.81 knots Wind Direction: 0.00° 99999.99 feet Ceiling: Visibility: 50.00 miles The user has used annual averages. 2704.00 feet Base Elevation:

Date Range: Thursday, January 01, 2004 to Friday, December 31, 2004

Source Data File Location:

Upper Air Data File

Location:

Quarter-Hourly Operational Profiles

Alt 2, Davis Monthan A F B

Name: DEFAULT							
Quarter-Hour	Weight	Quarter-Hour	Weight	Quarter-Hour	Weight	Quarter-Hour	Weight
12:00am to 12:14 am	1.000000	6:00am to 6:14am	1.000000	12:00pm to 12:14 pm	1.000000	6:00pm to 6:14pm	1.000000
12:15am to 12:29 am	1.000000	6:15am to 6:29am	1.000000	12:15pm to 12:29 pm	1.000000	6:15pm to 6:29pm	1.000000
12:30am to 12:44 am	1.000000	6:30am to 6:44am	1.000000	12:30pm to 12:44 pm	1.000000	6:30pm to 6:44pm	1.000000
12:45am to 12:59 am	1.000000	6:45am to 6:59am	1.000000	12:45pm to 12:59 pm	1.000000	6:45pm to 6:59pm	1.000000
1:00am to 1:14am	1.000000	7:00am to 7:14am	1.000000	1:00pm to 1:14pm	1.000000	7:00pm to 7:14pm	1.000000
1:15am to 1:29am	1.000000	7:15am to 7:29am	1.000000	1:15pm to 1:29pm	1.000000	7:15pm to 7:29pm	1.000000
1:30am to 1:44am	1.000000	7:30am to 7:44am	1.000000	1:30pm to 1:44pm	1.000000	7:30pm to 7:44pm	1.000000
1:45am to 1:59am	1.000000	7:45am to 7:59am	1.000000	1:45pm to 1:59pm	1.000000	7:45pm to 7:59pm	1.000000
2:00am to 2:14am	1.000000	8:00am to 8:14am	1.000000	2:00pm to 2:14pm	1.000000	8:00pm to 8:14pm	1.000000
2:15am to 2:29am	1.000000	8:15am to 8:29am	1.000000	2:15pm to 2:29pm	1.000000	8:15pm to 8:29pm	1.000000
2:30am to 2:44am	1.000000	8:30am to 8:44am	1.000000	2:30pm to 2:44pm	1.000000	8:30pm to 8:44pm	1.000000
2:45am to 2:59am	1.000000	8:45am to 8:59am	1.000000	2:45pm to 2:59pm	1.000000	8:45pm to 8:59pm	1.000000
3:00am to 3:14am	1.000000	9:00am to 9:14am	1.000000	3:00pm to 3:14pm	1.000000	9:00pm to 9:14pm	1.000000
3:15am to 3:29am	1.000000	9:15am to 9:29am	1.000000	3:15pm to 3:29pm	1.000000	9:15pm to 9:29pm	1.000000
3:30am to 3:44am	1.000000	9:30am to 9:44am	1.000000	3:30pm to 3:44pm	1.000000	9:30pm to 9:44pm	1.000000
3:45am to 3:59am	1.000000	9:45am to 9:59am	1.000000	3:45pm to 3:59pm	1.000000	9:45pm to 9:59pm	1.000000
4:00am to 4:14am	1.000000	10:00am to 10:14am	1.000000	4:00pm to 4:14pm	1.000000	10:00pm to 10:14pm	1.000000
4:15am to 4:29am	1.000000	10:15am to 10:29am	1.000000	4:15pm to 4:29pm	1.000000	10:15pm to 10:29pm	1.000000
4:30am to 4:44am	1.000000	10:30am to 10:44am	1.000000	4:30pm to 4:44pm	1.000000	10:30pm to 10:44pm	1.000000
4:45am to 4:59am	1.000000	10:45am to 10:59am	1.000000	4:45pm to 4:59pm	1.000000	10:45pm to 10:59pm	1.000000
5:00am to 5:14am	1.000000	11:00am to 11:14am	1.000000	5:00pm to 5:14pm	1.000000	11:00pm to 11:14pm	1.000000
5:15am to 5:29am	1.000000	11:15am to 11:29am	1.000000	5:15pm to 5:29pm	1.000000	11:15pm to 11:29pm	1.000000
5:30am to 5:44am	1.000000	11:30am to 11:44am	1.000000	5:30pm to 5:44pm	1.000000	11:30pm to 11:44pm	1.000000
5:45am to 5:59am	1.000000	11:45am to 11:59am	1.000000	5:45pm to 5:59pm	1.000000	11:45pm to 11:59pm	1.000000

Daily Operational Profiles Alt 2. Davis Monthan A F B

Name: DEFAULT

Day Weight Weight Day Monday 1.000000 Friday 1.000000 1.000000 Tuesday Saturday 1.000000 1.000000 1.000000 Wednesday Sunday

Thursday 1.000000

Monthly Operational Profiles Alt 2, Davis Monthan A F B

Name: DEFAULT

Month Weight Month Weight

January	1.000000	July	1.000000
February	1.000000	August	1.000000
March	1.000000	September	1.000000
April	1.000000	October	1.000000
May	1.000000	November	1.000000
June	1.000000	December	1.000000

Aircraft Alt 2, Davis Monthan A F B

Default Taxi Out Time: 19.000000 min
Default Taxi In Time: 7.000000 min
Voar: Llees Schodule

<u>Year:</u> <u>Uses Schedule?</u> <u>Schedule Filename:</u>

2013 No (None)

Aircraft Name: Boeing F-15 Eagle Engine Type: F100-PW-220 (w/AB) Identification: F-15 Category: Take Off weight: 11340.00 Kgs
Approach Weight: 9525.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

LMJA

Annual Departures: 54
Annual Arrivals: 54
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** DEFAULT Arrival Daily Operational Profile: Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT** Touch & Go Monthly Operational Profile: **DEFAULT**

Aircraft Name: Boeing F/A-18 Hornet Engine Type: F404-GE-400 Identification: F/A-18E/F Category:

LMJA

Take Off weight: 11340.00 Kgs
Approach Weight: 9525.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

 Year:
 Annual Departures:
 110

 2013
 Annual Arrivals:
 110

 Annual TGOs:
 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT DEFAULT** Arrival Monthly Operational Profile: Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT** Touch & Go Monthly Operational Profile: **DEFAULT**

Aircraft Name: Fairchild A-10A Thunderbolt II Engine Type: TF34-GE-100-100A Identification: A-10 Category: LMJA Take Off weight: 23587.00 Kgs
Approach Weight: 18144.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min

Gate Assignment:

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

Annual Departures: 490 Annual Arrivals: 490 Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

DEFAULT

None

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT**

Aircraft Name: Lockheed C-130 Hercules Engine Type: T56-A-15 Identification: C-130 Category:

Take Off weight: 59874.00 Kgs
Approach Weight: 55111.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Touch & Go Monthly Operational Profile:

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

LMTC

Annual Departures: 95
Annual Arrivals: 95
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT DEFAULT** Arrival Monthly Operational Profile: Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT** Touch & Go Monthly Operational Profile: **DEFAULT**

Aircraft Name: Lockheed Martin F-16 Fighting Falcon Engine Type: F100-PW-200 (w/AB) Identification: F-16 Category: Take Off weight: 11340.00 Kgs
Approach Weight: 9525.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

SMJA

Annual Departures: 944
Annual Arrivals: 944
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

DEFAULT

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT**

Aircraft Name: Lockheed Martin F-16 Fighting Falcon Engine Type: F100-PW-200 (w/AB) Identification: F-16 equivalents Category:

Take Off weight: 11340.00 Kgs
Approach Weight: 9525.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Touch & Go Monthly Operational Profile:

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

SMJA

Annual Departures: 366
Annual Arrivals: 366
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** DEFAULT Arrival Daily Operational Profile: Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT** profile: Touch & Go Daily Operational Profile: **DEFAULT** Touch & Go Monthly Operational Profile: **DEFAULT**

Aircraft Name: Sikorsky SH-60 Sea Hawk Engine Type: T700-GE-401 -401C Identification: HH-60 Category: SMTH Take Off weight: 9185.00 Kgs
Approach Weight: 9185.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min

APU Arrival OP Time: 13.00 min Gate Assignment: None

Assigned GSE/AGE: FUEL Arrival Op Time (mins) Departure Op Horsepower (hp) Load Factor Manufactured Year

 Year:
 Annual Departures:
 75

 2013
 Annual Arrivals:
 75

 Annual TGOs:
 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile:
Departure Daily Operational Profile:
Departure Monthly Operational Profile:
Default
Arrival Quarter-Hourly Operational profile:
Default
Arrival Daily Operational Profile:
Default
Arrival Monthly Operational Profile:
Default
Default

Arrival Monthly Operational Profile:
Touch & Go Quarter-Hourly Operational profile:

DEFAULT DEFAULT

Touch & Go Daily Operational Profile: DEFAULT Touch & Go Monthly Operational Profile: DEFAULT

GSE Population

Alt 2, Davis Monthan A F B

Type: Fuel: Ref. Model: Identification: Air Conditioner Electric #1

Rated Power: 75.00 hp
Load Factor: 75.00%

The user has selected to use the default age distribution, and has not chosen a specific age.

Analysis Year: 2013

Year of Manufacture: N/A Age: N/A

Gate: Percent

Year: Population: 2 units
2013 Yealry Operating Time: 1000.00 hours

Quarter-Hourly Operational profile:
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

Type: Fuel: Ref. Model: Identification:

	Aircraft Tractor		Gasoline	Douglas TBL- #	1
	Rated Power: Load Factor:		617.00 hp 80.00%		
		the default age distribution, and has not choser			
	Analysis Year:	,	2013		
	Year of Manufacture:		N/A		
	Age:		N/A		
	Gate:		Percent		
Year:	Population:	1 units			
2013		300.00 hours			
	Quarter-Hourly Operational	DEFAULT			
	profile:	DEFAULT			
	Daily Operational profile: Monthly Operational Profile:				
	T		Final	Def Medels 1d	1
	Type:		Fuel:	Dukes	lentification:
	Fuel Truck		Gasoline	Transportation Services / # DART 8000 to 10,000 gallon	1
	Rated Power:		300.00 hp		
	Load Factor:		25.00%		
		the default age distribution, and has not choser	n a specific age.		
	Analysis Year:		2013		
	Year of Manufacture: Age:		N/A N/A		
	лус. 		19/2		
	Gate:		Percent		
Year:	Population:	6 units			
2013	Yealry Operating Time:	150.00 hours			
	Quarter-Hourly Operational profile:	DEFAULT			
	r · ·	DEFAULT			
	Monthly Operational Profile:				
	Type:		Fuel:	Ref. Model: Id	entification:
	Ground Power Unit		Gasoline	TLD #	1
	Rated Power:		75.00 hp		
	Load Factor:		75.00%		
		the default age distribution, and has not choser			
	Analysis Year: Year of Manufacture:		2013 N/A		
	Age:		N/A N/A		
	Codes		Danaant		
	Gate:		Percent		
Year: 2013	*	3 units			
2010	Quarter Hourly Operational	1000.00 hours			
	Quarter-Hourly Operational profile:	DEFAULT			
	Daily Operational profile:	DEFAULT			
	Monthly Operational Profile:	DEFAULI			
Parking Facilities				Alt 2, Davis N	Monthan A F E
None.				A14.0. D:	10nth ^
Roadways				Alt 2, Davis N	rionthan A F E

Roadway Name:

Roadway

Vehicle Type: Default Fleet Mix (all types, fuels & ages)

Fuel: Gasoline 2013 Manufactured Year: Average Speed: 45 mph Roadway Length: 20.00 miles

Release Height:

Width: 65.62 feet

Point: Elevation (feet) X (feet) Y (feet)

0.00 0.00 0 1 2 328.08 0.00 0

Year: 2013

Traffic Volume: 0

Quarter-Hourly Operational **DEFAULT**

profile:

DEFAULT

Daily Operational profile: Monthly Operational Profile: DEFAULT

The user has edited the following emission factors:

CO (g/veh): 0 THC (g/veh): -1 NMHC (g/veh): 0 VOC (g/veh): 0 0 NOX (g/veh): SOX (g/veh): 0 0 PM-10 (g/veh): 0 PM-25 (g/veh): TOG (g/veh): 0 BENZENE (g/veh):

0 MTBE (g/veh): 1,3-BUTA (g/veh): 0 FORMALDEHYDE (g/veh): 0 ACETALDEHYDE (g/veh): ACROLEIN (g/veh):

Stationary Sources

Alt 2. Davis Monthan A F B

Stationary Source Name: Boiler/Space Heater

Stationary Category:

Boiler/Space Heater Stationary Type: Bituminous Coal: Pulverized, Dry Bottom, Wall Fired, Pre-NSPS

This stationary source is modeled as a point

2704.00 feet Elevation: 65.62 feet Release Height: Gas Velocity: 15.00 m/s Temperature: 400.00 °F

CO EI: 0.250000Kg/Metric Ton TNMOC EI: 0.030000Kg/Metric Ton NOx EI: 11.000000Kg/Metric Ton SOx EI: 19.00000Kg/Metric Ton -1.150000Kg/Metric Ton -PM-10 EI: 0X1.4D9300P-880sh

Fuel Sulfur Content: 2.160000 % Fuel Ash Content: 11.120000 % CO Pollution Control Factor: 0.000000 % TNMOC Pollution Control Factor: 0.000000 % NOx Pollution Control Factor: 0.000000 % SOx Pollution Control Factor: 0.000000 % PM-10 Pollution Control Factor: 0.000000 %

Point: X (feet) Y (feet) 0.00 0.00

Year: 2013 Metric Tons Used 2

Quarter-Hourly Operational DEFAULT profile: Daily Operational profile: **DEFAULT**

Monthly Operational Profile: DEFAULT

The user has NOT edited the emission factors. Stationary Source Name: Stationary Category: Aircraft Engine Testing **Engine Testing** Stationary Type: Engine of My Aircraft This stationary source is modeled as a point Elevation: 2704.00 feet 65.62 feet Release Height: 15.00 m/s Gas Velocity: Temperature: 400.00 °F Time at 30Power: 0.000000minutes/cycle Time at 85Power: 0.000000minutes/cycle Time at 100Power: 0.000000minutes/cycle Time at 7Power: 0.000000minutes/cycle Point: X (feet) Y (feet) 0.00 0.00 Year: **Test Cycles** 12 2013 **Quarter-Hourly Operational DEFAULT** profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT The user has edited the emission factors. Stationary Source Name: Stationary Category: **Fuel Tank** Fuel Tank Stationary Type: Horizontal: Jet Naphtha (JP-4) This stationary source is modeled as a point 2704.00 feet Elevation: Release Height: 65.62 feet Gas Velocity: 15.00 m/s Temperature: 400.00 °F 0.00000meters Shell Length: Shell Diameter: 0.000000meters Point: Y (feet) X (feet) 0.00 0.00 Year: Kiloliters Used 450 2013 Quarter-Hourly Operational DEFAULT profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT The user has edited the emission factors **Training Fires** Alt 2, Davis Monthan A F B None. Gates Alt 2, Davis Monthan A F B None. **Taxiways** Alt 2, Davis Monthan A F B None. Runways Alt 2, Davis Monthan A F B Runway Name: Name: X (feet) Y (feet) Elevation (feet) Glide Slope (°) 0.00 0.00 2704.00 3.00 Runway Name: Name: X (feet) Y (feet) Elevation (feet) Glide Slope (°) 19 0.00 0.00 2704.00 3.00

Taxipaths Alt 2, Davis Monthan A F B

None.

Configurations	Alt 2, Davis Monthan A F B
None.	
Buildings	Alt 2, Davis Monthan A F B
None.	
Discrete Cartesian Receptors	Alt 2, Davis Monthan A F B
None.	
Discrete Polar Receptors	Alt 2, Davis Monthan A F B
None.	
Cartesian Receptor Networks	Alt 2, Davis Monthan A F B
None.	
Polar Receptor Networks	Alt 2, Davis Monthan A F B
None.	
User-Created Aircraft	Alt 2, Davis Monthan A F B
None.	
User-Created GSE	Alt 2, Davis Monthan A F B
None.	
User-Created APU	Alt 2, Davis Monthan A F B
None.	

Scenario-Airport: Baseline, Davis Monthan A F B

Weather Baseline, Davis Monthan A F B

Mixing Height: 3000.00 feet Temperature: 68.00 °F Daily High Temperature: 78.35 °F

Daily Low

57.65 °F Temperature:

Pressure: 29.92 inches of Hg Sea Level Pressure: 29.89 inches of Hg

Relative Humidity: 33.22 Wind Speed: 6.81 knots 0.00° Wind Direction: Ceiling: 99999.99 feet Visibility: 50.00 miles The user has used annual averages.

Base Elevation:

Date Range: Thursday, January 01, 2004 to Friday, December 31, 2004

Source Data File Location:

Upper Air Data File

Location:

Quarter-Hourly Operational Profiles

Baseline, Davis Monthan A F B

Name: DEFAULT							
Quarter-Hour	Weight	Quarter-Hour	Weight	Quarter-Hour	Weight	Quarter-Hour	Weight
12:00am to 12:14 am	1.000000	6:00am to 6:14am	1.000000	12:00pm to 12:14 pm	1.000000	6:00pm to 6:14pm	1.000000
12:15am to 12:29 am	1.000000	6:15am to 6:29am	1.000000	12:15pm to 12:29 pm	1.000000	6:15pm to 6:29pm	1.000000
12:30am to 12:44 am	1.000000	6:30am to 6:44am	1.000000	12:30pm to 12:44 pm	1.000000	6:30pm to 6:44pm	1.000000
12:45am to 12:59 am	1.000000	6:45am to 6:59am	1.000000	12:45pm to 12:59 pm	1.000000	6:45pm to 6:59pm	1.000000
1:00am to 1:14am	1.000000	7:00am to 7:14am	1.000000	1:00pm to 1:14pm	1.000000	7:00pm to 7:14pm	1.000000
1:15am to 1:29am	1.000000	7:15am to 7:29am	1.000000	1:15pm to 1:29pm	1.000000	7:15pm to 7:29pm	1.000000
1:30am to 1:44am	1.000000	7:30am to 7:44am	1.000000	1:30pm to 1:44pm	1.000000	7:30pm to 7:44pm	1.000000
1:45am to 1:59am	1.000000	7:45am to 7:59am	1.000000	1:45pm to 1:59pm	1.000000	7:45pm to 7:59pm	1.000000
2:00am to 2:14am	1.000000	8:00am to 8:14am	1.000000	2:00pm to 2:14pm	1.000000	8:00pm to 8:14pm	1.000000
2:15am to 2:29am	1.000000	8:15am to 8:29am	1.000000	2:15pm to 2:29pm	1.000000	8:15pm to 8:29pm	1.000000
2:30am to 2:44am	1.000000	8:30am to 8:44am	1.000000	2:30pm to 2:44pm	1.000000	8:30pm to 8:44pm	1.000000

2:45am to 2:59am	1.000000	8:45am to 8:59am	1.000000	2:45pm to 2:59pm	1.000000	8:45pm to 8:59pm	1.000000
3:00am to 3:14am	1.000000	9:00am to 9:14am	1.000000	3:00pm to 3:14pm	1.000000	9:00pm to 9:14pm	1.000000
3:15am to 3:29am	1.000000	9:15am to 9:29am	1.000000	3:15pm to 3:29pm	1.000000	9:15pm to 9:29pm	1.000000
3:30am to 3:44am	1.000000	9:30am to 9:44am	1.000000	3:30pm to 3:44pm	1.000000	9:30pm to 9:44pm	1.000000
3:45am to 3:59am	1.000000	9:45am to 9:59am	1.000000	3:45pm to 3:59pm	1.000000	9:45pm to 9:59pm	1.000000
4:00am to 4:14am	1.000000	10:00am to 10:14am	1.000000	4:00pm to 4:14pm	1.000000	10:00pm to 10:14pm	1.000000
4:15am to 4:29am	1.000000	10:15am to 10:29am	1.000000	4:15pm to 4:29pm	1.000000	10:15pm to 10:29pm	1.000000
4:30am to 4:44am	1.000000	10:30am to 10:44am	1.000000	4:30pm to 4:44pm	1.000000	10:30pm to 10:44pm	1.000000
4:45am to 4:59am	1.000000	10:45am to 10:59am	1.000000	4:45pm to 4:59pm	1.000000	10:45pm to 10:59pm	1.000000
5:00am to 5:14am	1.000000	11:00am to 11:14am	1.000000	5:00pm to 5:14pm	1.000000	11:00pm to 11:14pm	1.000000
5:15am to 5:29am	1.000000	11:15am to 11:29am	1.000000	5:15pm to 5:29pm	1.000000	11:15pm to 11:29pm	1.000000
5:30am to 5:44am	1.000000	11:30am to 11:44am	1.000000	5:30pm to 5:44pm	1.000000	11:30pm to 11:44pm	1.000000
5:45am to 5:59am	1.000000	11:45am to 11:59am	1.000000	5:45pm to 5:59pm	1.000000	11:45pm to 11:59pm	1.000000

Daily Operational Profiles	Baseline, Davis Monthan A F B
----------------------------	-------------------------------

Name: DEFAULT Day

 Day
 Weight
 Day
 Weight

 Monday
 1.000000
 Friday
 1.000000

 Tuesday
 1.000000
 Saturday
 1.000000

 Wednesday
 1.000000
 Sunday
 1.000000

Thursday 1.000000

Monthly Operational Profiles Baseline, Davis Monthan A F B

Name: DEFAULT Month Weight Month Weight 1.000000 July 1.000000 January February 1.000000 August 1.000000 March 1.000000 September 1.000000 April 1.000000 October 1.000000 1.000000 1.000000 May November June 1.000000 December 1.000000

Aircraft Baseline, Davis Monthan A F B

Default Taxi Out Time: 19.000000 min
Default Taxi In Time: 7.000000 min

Year: <u>Uses Schedule?</u> <u>Schedule Filename:</u>

2013 No (None)

Aircraft Name: Boeing F-15 Eagle Engine Type: F100-PW-220 (w/AB) Identification:

Identification: F-15 Category: LMJA Take Off weight:

Approach Weight:

Glide Slope:

APU Assignment:

APU Arrival OP Time:

Gate Assignment:

None

13.00 min

13.00 min

None

None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

 Year:
 Annual Departures:
 33

 2013
 Annual Arrivals:
 33

 Annual TGOs:
 0

Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT

Departure Monthly Operational Profile:

Arrival Quarter-Hourly Operational profile:

Arrival Daily Operational Profile:

DEFAULT

Arrival Monthly Operational Profile:

DEFAULT

Touch & Go Quarter-Hourly Operational profile:

DEFAULT

DEFAULT

Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name: Boeing F/A-18 Hornet Engine Type: F404-GE-400 Identification: F/A-18E/F Category: LMJA Take Off weight: 11340.00 Kgs
Approach Weight: 9525.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

Annual Departures: 67
Annual Arrivals: 67
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile:
Departure Daily Operational Profile:
Departure Monthly Operational Profile:
DEFAULT
Departure Monthly Operational Profile:
DEFAULT
Arrival Quarter-Hourly Operational profile:
DEFAULT
Arrival Monthly Operational Profile:
DEFAULT
Touch & Go Quarter-Hourly Operational profile:
DEFAULT
DEFAULT
DEFAULT

Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name: Fairchild A-10A Thunderbolt II Engine Type: TF34-GE-100-100A Identification: A-10C Category: LMJA

Take Off weight: 23587.00 Kgs
Approach Weight: 18144.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

Annual Departures: 297
Annual Arrivals: 297
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT

Departure Monthly Operational Profile:

Arrival Quarter-Hourly Operational profile:

Arrival Daily Operational Profile:

DEFAULT

Arrival Monthly Operational Profile:

DEFAULT

Touch & Go Quarter-Hourly Operational profile:

DEFAULT

DEFAULT

Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name: Lockheed C-130 Hercules Engine Type:

T56-A-15
Identification:
C-130
Category:
LMTC

Take Off weight: 59874.00 Kgs
Approach Weight: 55111.00 Kgs
Glide Slope: 3.00°
APU Assignment: None

APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

Annual Departures: 57
Annual Arrivals: 57
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile:
Departure Daily Operational Profile:
Departure Monthly Operational Profile:
DEFAULT
Arrival Quarter-Hourly Operational profile:
DEFAULT
Arrival Daily Operational Profile:
DEFAULT
Arrival Monthly Operational Profile:
DEFAULT
Touch & Go Quarter-Hourly Operational
DEFAULT
DEFAULT

Touch & Go Daily Operational Profile: DEFAULT
Touch & Go Monthly Operational Profile: DEFAULT

Aircraft Name: Lockheed Martin F-16 Fighting Falcon Engine Type: F100-PW-200 (w/AB) Identification:

F-16 Category: SMJA Take Off weight: 11340.00 Kgs
Approach Weight: 9525.00 Kgs
Glide Slope: 3.00°
APU Assignment: None
APU Departure OP Time: 13.00 min
APU Arrival OP Time: 13.00 min
Gate Assignment: None

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

Year: 2013

Annual Departures: 688
Annual Arrivals: 688
Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model
Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT
Departure Daily Operational Profile: DEFAULT

Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT** Touch & Go Quarter-Hourly Operational **DEFAULT**

Aircraft Name: Lockheed Martin F-16 Fighting Falcon Engine Type: F100-PW-200 (w/AB) Identification: F-16 equivalents Category:

Take Off weight: 11340.00 Kgs Approach Weight: 9525.00 Kgs Glide Slope: 3.00° APU Assignment: None APU Departure OP Time: 13.00 min APU Arrival OP Time: 13.00 min Gate Assignment: None

Touch & Go Daily Operational Profile:

Touch & Go Monthly Operational Profile:

Assigned GSE/AGE:	FUEL	Arrival Op Time (mins)	Departure Op Time (mins)	Horsepower (hp)	Load Factor (%)	Manufactured Year
Cart (Taylor Dunn)	Diesel	5.00	5.00	25.00	50.00	
Generator (Generic)	Diesel	0.00	120.00	158.00	82.00	
Lift (Generic)	Diesel	5.00	5.00	115.00	50.00	
Other (Generic)	Diesel	0.00	0.00	140.00	50.00	

DEFAULT

DEFAULT

Year: 2013

SMJA

Annual Departures: 221 Annual Arrivals: 221 Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: DEFAULT Touch & Go Quarter-Hourly Operational **DEFAULT**

Touch & Go Daily Operational Profile: **DEFAULT** Touch & Go Monthly Operational Profile: **DEFAULT**

Aircraft Name: Sikorsky SH-60 Sea Hawk Engine Type: T700-GE-401 -401C Identification: HH-60 Category: SMTH

Take Off weight: 9185.00 Kgs Approach Weight: 9185.00 Kgs 3.00° None 13.00 min 13.00 min

Year: 2013

Glide Slope: APU Assignment: APU Departure OP Time: APU Arrival OP Time: Gate Assignment: None

Assigned GSE/AGE:

Annual Departures: 45 Annual Arrivals: 45 Annual TGOs: 0

Taxi Out Time: Determined by Sequencing model Taxi In Time: Determined by Sequencing model

FUEL

Arrival Op Time

(mins)

Departure Op

Time (mins)

Load Factor

(%)

Horsepower

(hp)

Manufactured

Year

Departure Quarter-Hourly Operational profile: DEFAULT Departure Daily Operational Profile: **DEFAULT** Departure Monthly Operational Profile: **DEFAULT** Arrival Quarter-Hourly Operational profile: **DEFAULT** Arrival Daily Operational Profile: **DEFAULT** Arrival Monthly Operational Profile: **DEFAULT**

Touch & Go Quarter-Hourly Operational

profile:

DEFAULT

Touch & Go Daily Operational Profile:

Touch & Go Monthly Operational Profile:

DEFAULT DEFAULT

GSE Population Baseline, Davis Monthan A F B Type: Fuel: Ref. Model: Identification: Air Conditioner Electric #1 75.00 hp Rated Power: 75.00% Load Factor: The user has selected to use the default age distribution, and has not chosen a specific age. Analysis Year: 2013 Year of Manufacture: N/A Age: N/A Percent Gate: Year: Population: 2 units 2013 Yealry Operating Time: 1000.00 hours **Quarter-Hourly Operational DEFAULT** profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT Fuel: Ref. Model: Type: Identification: Douglas TBL- #1 Aircraft Tractor Gasoline 400 Rated Power: 617.00 hp Load Factor: 80.00% The user has selected to use the default age distribution, and has not chosen a specific age. 2013 Analysis Year: Year of Manufacture: N/A Age: N/A Gate: Percent Year: 1 units Population: 2013 300.00 hours Yealry Operating Time: **Quarter-Hourly Operational DEFAULT** profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT Fuel: Ref. Model: Identification: Type: Dukes Transportation Fuel Truck Gasoline Services / #1 DART 8000 to 10,000 gallon Rated Power: 300.00 hp 25.00% The user has selected to use the default age distribution, and has not chosen a specific age. Analysis Year: 2013 Year of Manufacture: N/A N/A Age: Gate: Percent

Year: 2013

Population: 6 units
Yealry Operating Time: 150.00 hours
Quarter-Hourly Operational DEFAULT

profile:

Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT

Type: Fuel: Ref. Model: Identification:

Ground Power Unit Gasoline TLD #1

75.00 hp Rated Power: Load Factor: 75.00% The user has selected to use the default age distribution, and has not chosen a specific age.

Analysis Year: 2013

Year of Manufacture: N/A Age: N/A

Gate: Percent

Year: 2013

Population: 3 units Yealry Operating Time: 1000.00 hours

Quarter-Hourly Operational **DEFAULT** profile:

Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT

Parking Facilities Baseline, Davis Monthan A F B

None.

Roadways Baseline, Davis Monthan A F B

Roadway Name: Roadway

Vehicle Type: Default Fleet Mix (all types, fuels & ages) Gasoline Fuel:

2013 Manufactured Year: Average Speed: 45 mph Roadway Length: 20.00 miles

Release Height:

Width: 65.62 feet

Point: X (feet) Y (feet) Elevation (feet)

0.00 0.00 0 2 328.08 0.00 0

Year: 2013

Traffic Volume:

Quarter-Hourly Operational **DEFAULT**

profile:

Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT

The user has NOT edited the following emission factors:

CO (g/veh): 7.025 THC (g/veh): -1 NMHC (g/veh): 0.495 VOC (g/veh): 0.501 NOX (g/veh): 0.874 SOX (g/veh): 0.0089 PM-10 (g/veh): 0.0355 PM-25 (g/veh): 0.0201

TOG (g/veh):

BENZENE (g/veh): 0.015607 0 MTBE (g/veh):

1,3-BUTA (g/veh): 0.002122 FORMALDEHYDE (g/veh): 0.005603 ACETALDEHYDE (g/veh): 0.004042 ACROLEIN (g/veh): 0.000243

Stationary Sources Baseline, Davis Monthan A F B

Stationary Source Name: Boiler/Space Heater

Stationary Category:

Boiler/Space Heater

Bituminous Coal: Pulverized, Dry Bottom, Wall Fired, Pre-NSPS Stationary Type:

This stationary source is modeled as a point

2704.00 feet Elevation: Release Height: 65.62 feet Gas Velocity: 15.00 m/s Temperature: 400.00 °F

CO EI: 0.250000Kg/Metric Ton TNMOC EI: 0.030000Kg/Metric Ton NOx EI: 11.000000Kg/Metric Ton SOx EI: 19.00000Kg/Metric Ton -1.150000Kg/Metric Ton -PM-10 EI: 0X1.4D9300P-880sh

Fuel Sulfur Content: 2.160000 % Fuel Ash Content: 11.120000 % CO Pollution Control Factor: 0.000000 % TNMOC Pollution Control Factor: 0.000000 % NOx Pollution Control Factor: 0.000000 % SOx Pollution Control Factor: 0.000000 % PM-10 Pollution Control Factor: 0.000000 %

Point: X (feet) Y (feet) 0.00 0.00

Year: 2013

Metric Tons Used

Quarter-Hourly Operational

DEFAULT profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT

The user has NOT edited the emission factors.

Stationary Source Name: **Engine Test**

Stationary Category: Aircraft Engine Testing Stationary Type: Engine of My Aircraft

This stationary source is modeled as a point

2704.00 feet Elevation: Release Height: 65.62 feet Gas Velocity: 15.00 m/s 400.00 °F Temperature:

Time at 30Power: 0.000000minutes/cycle Time at 85Power: 0.000000minutes/cycle Time at 100Power: 0.000000minutes/cycle Time at 7Power: 0.000000minutes/cycle

Point: X (feet) Y (feet) 0.00 0.00

Year: 2013

12 **Test Cycles**

Quarter-Hourly Operational **DEFAULT**

profile: Daily Operational profile: **DEFAULT** Monthly Operational Profile: DEFAULT

The user has edited the emission factors.

Stationary Source Name: Fuel Tank

Stationary Category: Fuel Tank

Horizontal: Jet Naphtha (JP-4) Stationary Type:

This stationary source is modeled as a point

Elevation: 2704.00 feet Release Height: 65.62 feet Gas Velocity: 15.00 m/s 400.00 °F Temperature: Shell Length: 0.000000meters Shell Diameter: 0.00000meters

Point: X (feet) Y (feet) 0.00 0.00 1

Year: 2013

Kiloliters Used 450

Quarter-Hourly Operational profile:

Daily Operational profile: DEFAULT Monthly Operational Profile: DEFAULT

DEFAULT

The user has edited the emission factors.

Training Fires					Baseline, Davis Monthan A F B
None.					
Gates					Baseline, Davis Monthan A F E
None.					
Taxiways					Baseline, Davis Monthan A F B
None.					
Runways					Baseline, Davis Monthan A F B
Runway Name: 1	Name: 1	X (feet) 0.00	Y (feet) 0.00	Elevation (feet) 2704.00	Glide Slope (°) 3.00
Runway Name: 19	Name: 19	X (feet) 0.00	Y (feet) 0.00	Elevation (feet) 2704.00	Glide Slope (°) 3.00
Taxipaths					Baseline, Davis Monthan A F B
None. Configurations					Baseline, Davis Monthan A F B
None.					
Buildings					Baseline, Davis Monthan A F B
None.					
Discrete Cartesian Receptors					Baseline, Davis Monthan A F B
None. Discrete Polar Receptors					Baseline, Davis Monthan A F B
None.					
Cartesian Receptor Networks					Baseline, Davis Monthan A F B
None.					
Polar Receptor Networks					Baseline, Davis Monthan A F B
None.					
User-Created Aircraft					Baseline, Davis Monthan A F B
None.					
User-Created GSE None.					Baseline, Davis Monthan A F B
User-Created APU					Baseline, Davis Monthan A F B
None.					

Emissions Inventory Summary (Short Tons per Year) Baseline - Davis Monthan A F B 2013

Category	CO2	CO	THC	NMHC	VOC	TOG	NOx	SOx	PM-10	PM-2.5
Aircraft GSE	1,983.877 N/A	18.613 25.944	6.453 N/A	7.461 0.905	7,422 0.943	7.461 1.040	3.806 3.397	0.812	N/A 0.131	N/A 0.126
APUs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roadways	N/A	0.000	N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Stationary Sources	0.000	0.001	0.000	0.029	0.029	0.029	0.024	0.090	0.003	0.001
Training Fires	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total	1,983.877	44.557	6.453	8.395	8.394	8.530	7.227	0.972	0.133	0.126

Emissions Inventory Summary (Short Tons per Year) Alt 1 - Davis Monthan A F B 2013

Category	CO2	CO	THC	NMHC	VOC	TOG	NOx	SOx	PM-10	PM-2.5
Aircraft	3,294.593	32.259	11.292	13.057	12.989	13.057	6.250	1.349	N/A	N/A
GSE	N/A	26.229	N/A	0.990	1.033	1.132	4.528	0.072	0.198	0.190
APUs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roadways	N/A	0.000	N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Stationary Sources	0.000	0.001	0.000	0.029	0.029	0.029	0.024	0.090	0.003	0.001
Training Fires	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total	3,294,593	58.489	11.292	14.076	14.051	14.218	10.802	1.511	0.200	0.191

Emissions Inventory Summary (Short Tons per Year) Alt 2 - Davis Monthan A F B 2013

Category	CO2	CO	THC	NMHC	VOC	TOG	NOx	SOx	PM-10	PM-2.5
Aircraft	2.989.635	29.124	9.955	11.510	11.450	11.510	5.667	1.224	N/A	N/A
GSE	N/A	26.168	N/A	0.971	1.014	1.112	4.283	0.071	0.183	0.176
APUs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roadways	N/A	0.000	N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Stationary Sources	0.000	0.001	0.000	0.029	0.029	0.029	0.024	0.090	0.003	0.001
Training Fires	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grand Total	2,989.635	55.292	9.955	12.511	12.493	12.651	9.975	1.386	0.186	0.177