

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: English
Dispersion Modeling: Dispersion is not enabled for this study
Speciated Hydrocarbon Modeling: Speciated Hydrocarbon Modeling is not enabled for this study
Analysis Years: 2013

Scenarios

Scenario Name: Alt 1	Description: 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 %
Scenario Name: Alt 2	Description: Aircraft Times in Mode Basis: Taxi Time Modeling: FOA3 Sulfur-to-Sulfate Conversion Rate:	Update and Implement Total Force Training with Limited FMS Aircraft Performance-Based User-specified Taxi Times 2.400000 %
Scenario Name: Baseline	Description: Aircraft Times in Mode Basis: Taxi Time Modeling: FOA3 Sulfur-to-Sulfate Conversion Rate:	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
City: Tucson
Airport Description: Davis Monthan AFB
Latitude: 32.166°
Longitude: -110.883°
Northing: 3558893.53
Easting: 511017.69
UTM Zone: 12
Elevation: 2704.00 feet
PM Modeling Methodology: FOA3a (Sulfur-to-Sulfate Conversion Rate = 5.0%, Fuel Sulfur Content = 0.068%)

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 Temperature: 78.35 °F
Daily Low Temperature: 57.65 °F
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 °
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
Location:

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
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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 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 Operational Profiles

Alt 1, 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 1, Davis Monthan A F B

Default Taxi Out Time: 19.000000 min

Default Taxi In Time: 7.000000 min

Year: Uses Schedule?

2013

No

Schedule Filename:

(None)

Aircraft Name:

Boeing F-15 Eagle

Engine Type:

F100-PW-220 (w/AB)

Identification:

F-15

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:	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
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	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:	110
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 profile:	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-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:	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:	490
Annual Arrivals:	490
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 profile:	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-130H/J
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:	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
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	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:	1136
Annual Arrivals:	1136
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 profile:	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 equivalents
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:	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
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
Touch & Go Monthly Operational Profile:	DEFAULT

Aircraft Name:
Sikorsky CH-53E Super Stallion
Engine Type:
T64-GE-100
Identification:
HH-60
Category:
LMTH

Take Off weight:	16783.00 Kgs
Approach Weight:	16783.00 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
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Year:
2013

Annual Departures: 75
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
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: 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

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
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Year:
2013

Population:	2 units
Yearly Operating Time:	1000.00 hours
Quarter-Hourly Operational profile:	DEFAULT
Daily Operational profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Gasoline		#1

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.

Analysis Year:	2013
Year of Manufacture:	N/A
Age:	N/A

Gate:	Percent
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Year:
2013

Population:	1 units
Yearly Operating Time:	300.00 hours
Quarter-Hourly Operational profile:	DEFAULT
Daily Operational profile:	DEFAULT
Monthly Operational Profile:	DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Fuel Truck	Gasoline	Dukes Transportation Services / DART 8000 to 10,000 gallon	#1

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: 2013
Year of Manufacture: N/A
Age: N/A

Gate: Percent

Year:
2013

Population: 6 units
Yearly Operating Time: 150.00 hours
Quarter-Hourly Operational profile: DEFAULT
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

Type: Ground Power Unit
Fuel: Gasoline
Ref. Model: TLD
Identification: #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:
2013

Population: 3 units
Yearly Operating Time: 1000.00 hours
Quarter-Hourly Operational profile: DEFAULT
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

Parking Facilities

Alt 1, Davis Monthan A F B

None.

Roadways

Alt 1, Davis Monthan A F B

Roadway Name: Roadway
Vehicle Type: Default Fleet Mix (all types, fuels & ages)
Fuel: Gasoline
Manufactured Year: 0
Average Speed: 45 mph
Roadway Length: 20.00 miles
Release Height:

Width: 65.62 feet
Point: X (feet) Y (feet) Elevation (feet)
1 0.00 0.00 0
2 328.08 0.00 0

Year:
2013

Traffic Volume: 0
Quarter-Hourly Operational profile: DEFAULT
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): 0.000243

Stationary Sources

Alt 1, 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

Elevation: 2704.00 feet
 Release Height: 65.62 feet
 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 -
 PM-10 EI : 1.1500Kg/Metric Ton - 0X1.4D9300P-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: X (feet) Y (feet)
 1 0.00 0.00

Year: 2013
 Metric Tons Used 2
 Quarter-Hourly Operational profile: DEFAULT
 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

Elevation: 2704.00 feet
 Release Height: 65.62 feet
 Gas Velocity: 15.00 m/s
 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)
 1 0.00 0.00

Year: 2013
 Test Cycles 12
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

The user has edited the emission factors.

Stationary Source Name: Fuel Tank
 Stationary Category: Fuel Tank
 Stationary Type: Horizontal: Jet Naphtha (JP-4)

This stationary source is modeled as a point

Elevation: 2704.00 feet
Release Height: 65.62 feet
Gas Velocity: 15.00 m/s
Temperature: 400.00 °F
Shell Length : 0.000000meters
Shell Diameter : 0.000000meters
Point: X (feet) Y (feet)
1 0.00 0.00

Year:
2013

Kiloliters Used 450
Quarter-Hourly Operational profile: DEFAULT
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.

Runways

Alt 1, Davis Monthan A F B

Runway Name:	Name:	X (feet)	Y (feet)	Elevation (feet)	Glide Slope (°)
1	1	0.00	0.00	2704.00	3.00

Runway Name:	Name:	X (feet)	Y (feet)	Elevation (feet)	Glide Slope (°)
19	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

None.

Polar Receptor Networks

Alt 1, Davis Monthan A F B

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
 Temperature: 68.00 °F
 Daily High Temperature: 78.35 °F
 Daily Low Temperature: 57.65 °F
 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 °
 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
 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	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

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

Year: 2013 Uses Schedule? No Schedule Filename: (None)

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

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:	54
2013	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
Arrival Daily Operational Profile:	DEFAULT
Arrival Monthly Operational Profile:	DEFAULT
Touch & Go Quarter-Hourly Operational profile:	DEFAULT
Touch & Go Daily Operational Profile:	DEFAULT
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	APU Assignment:	None
Identification:	APU Departure OP Time:	13.00 min
F/A-18E/F	APU Arrival OP Time:	13.00 min
Category:	Gate Assignment:	None
LMJA		

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
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: 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-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: 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: 490
Annual Arrivals: 490
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 profile: 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: 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
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: 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: 944
Annual Arrivals: 944
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 profile: 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 equivalents
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: 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
Arrival Daily Operational Profile: DEFAULT
Arrival Monthly Operational Profile: DEFAULT
Touch & Go Quarter-Hourly Operational profile: 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
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
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Year:
2013

Annual Departures: 75
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
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: 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
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Year:
2013

Population: 2 units
Yearly Operating Time: 1000.00 hours
Quarter-Hourly Operational profile: DEFAULT
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
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Aircraft Tractor

Gasoline

Douglas TBL-400 #1

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.
 Analysis Year: 2013
 Year of Manufacture: N/A
 Age: N/A

Gate: Percent

Year: 2013

Population: 1 units
 Yearly Operating Time: 300.00 hours
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Fuel Truck	Gasoline	Dukes Transportation Services /	#1
		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: 2013
 Year of Manufacture: N/A
 Age: N/A

Gate: Percent

Year: 2013

Population: 6 units
 Yearly Operating Time: 150.00 hours
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
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
 Year of Manufacture: N/A
 Age: N/A

Gate: Percent

Year: 2013

Population: 3 units
 Yearly Operating Time: 1000.00 hours
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

Parking Facilities

Alt 2, Davis Monthan A F B

None.

Roadways

Alt 2, Davis Monthan A F B

Roadway Name:

Roadway

Vehicle Type: Default Fleet Mix (all types, fuels & ages)
 Fuel: Gasoline
 Manufactured Year: 2013
 Average Speed: 45 mph
 Roadway Length: 20.00 miles
 Release Height:

Width: 65.62 feet
 Point: X (feet) Y (feet) Elevation (feet)
 1 0.00 0.00 0
 2 328.08 0.00 0

Year:
2013

Traffic Volume: 0
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 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
 NOX (g/veh): 0
 SOX (g/veh): 0
 PM-10 (g/veh): 0
 PM-25 (g/veh): 0
 TOG (g/veh):
 BENZENE (g/veh): 0
 MTBE (g/veh): 0
 1,3-BUTA (g/veh): 0
 FORMALDEHYDE (g/veh): 0
 ACETALDEHYDE (g/veh): 0
 ACROLEIN (g/veh): 0

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

Elevation: 2704.00 feet
 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 : 19.000000Kg/Metric Ton -
 PM-10 EI : 1.150000Kg/Metric Ton -
 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)
 1 0.00 0.00

Year:
2013

Metric Tons Used 2
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

The user has NOT edited the emission factors.

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

This stationary source is modeled as a point

Elevation: 2704.00 feet
Release Height: 65.62 feet
Gas Velocity: 15.00 m/s
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)
1 0.00 0.00

Year: 2013
Test Cycles 12
Quarter-Hourly Operational profile: DEFAULT
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

The user has edited the emission factors.

Stationary Source Name: Fuel Tank
Stationary Category: Fuel Tank
Stationary Type: Horizontal: Jet Naphtha (JP-4)

This stationary source is modeled as a point

Elevation: 2704.00 feet
Release Height: 65.62 feet
Gas Velocity: 15.00 m/s
Temperature: 400.00 °F
Shell Length : 0.000000meters
Shell Diameter : 0.000000meters
Point: X (feet) Y (feet)
1 0.00 0.00

Year: 2013
Kiloliters Used 450
Quarter-Hourly Operational profile: DEFAULT
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 (°)
1	1	0.00	0.00	2704.00	3.00

Runway Name:	Name:	X (feet)	Y (feet)	Elevation (feet)	Glide Slope (°)
19	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 °FDaily Low
Temperature: 57.65 °F

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 °

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

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	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
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

Baseline, Davis Monthan A F B

Default Taxi Out Time:	19.000000 min		
Default Taxi In Time:	7.000000 min		
<u>Year:</u>	<u>Uses Schedule?</u>	<u>Schedule Filename:</u>	
2013	No	(None)	

Aircraft Name:	Boeing F-15 Eagle	Take Off weight:	11340.00 Kgs
Engine Type:	F100-PW-220 (w/AB)	Approach Weight:	9525.00 Kgs
Identification:	F-15	Glide Slope:	3.00°
Category:	LMJA	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:	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: 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: 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: 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: 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: 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: 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: 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: 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 profile: 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 equivalents
 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: 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 profile: 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
 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

Year: 2013

Annual Departures: 45
 Annual Arrivals: 45
 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 profile: DEFAULT
 Touch & Go Daily Operational Profile: DEFAULT
 Touch & Go Monthly Operational Profile: DEFAULT

GSE Population

Baseline, Davis Monthan A F B

Type:	Fuel:	Ref. Model:	Identification:
Air Conditioner	Electric		#1
<hr/>			
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		
<hr/>			
Gate:	Percent		
<hr/>			

Year:
2013

Population: 2 units
 Yearly Operating Time: 1000.00 hours
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Aircraft Tractor	Gasoline	Douglas TBL-400	#1
<hr/>			
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.			
Analysis Year:	2013		
Year of Manufacture:	N/A		
Age:	N/A		
<hr/>			
Gate:	Percent		
<hr/>			

Year:
2013

Population: 1 units
 Yearly Operating Time: 300.00 hours
 Quarter-Hourly Operational profile: DEFAULT
 Daily Operational profile: DEFAULT
 Monthly Operational Profile: DEFAULT

Type:	Fuel:	Ref. Model:	Identification:
Fuel Truck	Gasoline	Dukes Transportation Services / DART 8000 to 10,000 gallon	#1
<hr/>			
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:	2013		
Year of Manufacture:	N/A		
Age:	N/A		
<hr/>			
Gate:	Percent		
<hr/>			

Year:
2013

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

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

Type:	Fuel:	Ref. Model:	Identification:
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
 Year of Manufacture: N/A
 Age: N/A

Gate: Percent

Year: 2013

Population: 3 units
 Yearly Operating Time: 1000.00 hours
 Quarter-Hourly Operational profile: DEFAULT
 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:	Vehicle Type:	Default Fleet Mix (all types, fuels & ages)		
Roadway	Fuel:	Gasoline		
	Manufactured Year:	2013		
	Average Speed:	45 mph		
	Roadway Length:	20.00 miles		
	Release Height:			

Width:	65.62 feet		
Point:	X (feet)	Y (feet)	Elevation (feet)
1	0.00	0.00	0
2	328.08	0.00	0

Year: 2013

Traffic Volume: 0
 Quarter-Hourly Operational profile: DEFAULT
 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):	0.000243

Stationary Sources

Baseline, Davis Monthan A F B

Stationary Source Name:	Stationary Category:	Boiler/Space Heater
Boiler/Space Heater		

Stationary Type:

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

This stationary source is modeled as a point

Elevation: 2704.00 feet
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 : 19.000000Kg/Metric Ton -
PM-10 EI : 1.150000Kg/Metric Ton -
OX1.4D9300P-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)
1 0.00 0.00

Year:
2013

Metric Tons Used 2
Quarter-Hourly Operational profile: DEFAULT
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

Elevation: 2704.00 feet
Release Height: 65.62 feet
Gas Velocity: 15.00 m/s
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)
1 0.00 0.00

Year:
2013

Test Cycles 12
Quarter-Hourly Operational profile: DEFAULT
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

The user has edited the emission factors.

Stationary Source Name:
Fuel Tank

Stationary Category: Fuel Tank
Stationary Type: Horizontal: Jet Naphtha (JP-4)

This stationary source is modeled as a point

Elevation: 2704.00 feet
Release Height: 65.62 feet
Gas Velocity: 15.00 m/s
Temperature: 400.00 °F
Shell Length : 0.000000meters
Shell Diameter : 0.000000meters
Point: X (feet) Y (feet)
1 0.00 0.00

Year:
2013

Kiloliters Used 450
Quarter-Hourly Operational profile: DEFAULT
Daily Operational profile: DEFAULT
Monthly Operational Profile: DEFAULT

The user has edited the emission factors.

Training Fires

Baseline, Davis Monthan A F B

None.

Gates

Baseline, Davis Monthan A F B

None.

Taxiways

Baseline, Davis Monthan A F B

None.

Runways

Baseline, Davis Monthan A F B

Runway Name:	Name:	X (feet)	Y (feet)	Elevation (feet)	Glide Slope (°)
1	1	0.00	0.00	2704.00	3.00

Runway Name:	Name:	X (feet)	Y (feet)	Elevation (feet)	Glide Slope (°)
19	19	0.00	0.00	2704.00	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

Baseline, Davis Monthan A F B

None.

User-Created APU

Baseline, Davis Monthan A F B

None.

Emissions Inventory Summary

(Short Tons per Year)

Baseline - Davis Monthan AFB 2013

Category	CO2	CO	THC	NMHC	VOC	TOG	NOx	SOx	PM-10	PM-2.5
Aircraft	1,983.877	18.613	6.453	7.461	7.422	7.461	3.806	0.812	N/A	N/A
GSE	N/A	25.944	N/A	0.905	0.943	1.040	3.397	0.059	0.131	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

