



# SOUTH CAROLINA AIRPORTS SYSTEM PLAN

BARNWELL RGNL - BNL  
BARNWELL, SOUTH CAROLINA

Data Cycle 04/13/2012  
Photo Date 2008



Governing Body  
COMMISSION

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# **SOUTH CAROLINA AIRPORTS SYSTEM PLAN**

**BARNWELL RGNL - BNL**  
**Airport Classification - SC III**

**BARNWELL, SOUTH CAROLINA**

State Classification III – Business/Recreation (SC-III): Generally located in rural localities these airports serve small business and recreational aircraft. These airports do not typically serve multi-jurisdictional service areas but are generally confined to the communities in which they reside, or located near another airport whose service area is multi-jurisdictional. The SC Airports System Plan has determined that these airports should have runways that are a minimum of 3,600 feet x 75 feet with Airport reference Code (ARC) designations of B-I or B-II. The airport's economic impact to the state is within a range of \$250,000 to \$2 million as defined in the South Carolina Economic Impact of Aviation (May 2006).<sup>1</sup> These airports generally offer the full range of fuels and most aviation services. They have a non-precision approach and are also forecasted to have a growing population of aircraft and annual operations. A future airport profile consists of 5% to 20% of corporate and business use but a higher percentage of recreational use. The airport is not constrained by surrounding incompatible land uses or environmentally sensitive areas, and has adequate expansion capability not only for runways and taxiways but for support facilities as well. Business/Recreation airports should have approach minima of no higher than 400-1 mile.

All airport design standards for Classification III airports shall be based on the FAA Airport Reference Code (ARC) B-I or B-II with the following additions:

- \* Shall have an Airport Layout Plan approved by SCAC,
- \* Runway length shall be 3,600 feet,
- \* Runway width shall be 75 feet,
- \* Runway strength shall be 30,000 pounds dual wheel load,
- \* Runways shall have unobstructed approaches in accordance with FAA AC 150/5300-13,
- \* Airport shall attempt to achieve RNAV (GPS) LNAV instrument approach minimums on the primary Runway of 400 feet and 1 mile,
- \* Runway to taxiway centerline distance shall be 300 feet,
- \* Runway lighting shall consist of Medium Intensity Runway Lights, 2-Box Precision Approach Path Indicator (PAPI), Runway End Identifier Lights (REILS).

<sup>1</sup> Wilbur Smith Associates in association with EDR Group and Franks and Associates (May 2006). South Carolina Economic Impact of Aviation. Prepared for The South Carolina Aeronautics Commission.



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## Airport Operations and Based Aircraft Forecasts

Year	ITINERANT OPERATIONS					LOCAL OPERATIONS			Total Ops	IFR Ops	Based Aircraft
	Air	Comm	General	Military	ITIN	General	Military	Local			
	Carrier	Air Taxi	Aviation	Ops	Totals	Aviation	Ops	Totals			
2009	0	0	12,000	750	12,750	11,000	0	11,000	23,750	678	34
2014	0	0	10,619	664	11,283	13,588	0	13,588	24,871	600	42
2019	0	0	12,389	774	13,163	16,176	0	16,176	29,339	700	50
2029	0	0	14,159	885	15,044	21,676	0	21,676	36,720	800	67

[Hyper link to Airport Operations \(operations link N/A\)](#)

Base Aircraft for 2011		Annual IFR Flight for 2011		Piston	Turbine
Single Engine	32	10 Single Engine		0	10
Multi Engines	1	134 Multi Engines		98	36
Helicopter	0	0 Helicopter		0	0
Jet	0	47 Jet			
Military	0	0 Unknown			
Base Totals	33	191 IFR Totals			

[Hyper Link to IFR details](#)



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## Airport Profile

Elevation 246.00' MSL  
Lighting Schedule DUSK-DAWN  
Magnetic Var 05°W

Latitude: 33-15-28.8060N  
Longitude: 081-23-16.5582W

## Runway Information

ID	Length	Width	Surface	VGIS	REILS	Edge Lights	Approach Lights	Traffic Pattern
05/23	4835	70	ASPH-P	None	None		None	23 - RH
17/35	5119	100	ASPH-G	P2L/P2L	17	MED	ODALS/	35 - RH

## Gross Wheel Weight

ID	SW	DW	DTW	DDTW	Surface
05/23	12.0				ASPH-P
17/35	20.0	60.0			ASPH-G

## NAVAIDS

ID	Type	FREQ	Direct/Distant
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CAE VORTAC 114.70 r207° 39.6 NM to fld

## Communications

		RCO	ATIS	ATC		WEATHER	
UNICOM	CTAF	FREQ	FREQ	FREQ	ID	FREQ	PHONE
122.800	122.800			132.5	JAX	119.775	(803) 259-4536

[Hyperlink to airport drawing diagram](#)





# SOUTH CAROLINA AIRPORTS SYSTEM PLAN

## Capital Improvement Program

Project Description	Project Cost	Federal Share	Non-Primary Entitlements	Discretionary	State	Local
<b>2009</b>						
10 Unit Nested T-Hangar	\$315,789 95%	\$300,000	\$150,000	\$150,000	\$7,895 2.5%	\$7,895 2.5%
Totals for 2009	\$315,789	\$300,000	\$150,000	\$150,000	\$7,895	\$7,895
<b>2010</b>						
Apron Expansion, PHASE I - DESIGN	\$85,000 95%	\$80,750	\$150,000	\$0	\$2,125 2.5%	\$2,125 2.5%
	\$0 0%	\$0	\$0	\$(69,250)	\$0 0%	\$0 0%
Totals for 2010	\$85,000	\$80,750	\$150,000	\$(69,250)	\$2,125	\$2,125
<b>2011</b>						
Apron Expansion, PHASE II - CONSTRUCTION	\$600,000 95%	\$570,000	\$150,000	\$420,000	\$15,000 2.5%	\$15,000 2.5%
Totals for 2011	\$600,000	\$570,000	\$150,000	\$420,000	\$15,000	\$15,000
<b>2012</b>						
Runway 17 400' Extension Environmental Assessment & ALP Update	\$157,895 95%	\$150,000	\$150,000	\$0	\$3,947 2.5%	\$3,947 2.5%
Totals for 2012	\$157,895	\$150,000	\$150,000	\$0	\$3,947	\$3,947
<b>2013</b>						
Runway 17 400' Extension Phase I - DESIGN	\$100,000 95%	\$95,000	\$150,000	\$0	\$2,500 2.5%	\$2,500 2.5%
	\$0 0%	\$0	\$0	\$(55,000)	\$0 0%	\$0 0%
Totals for 2013	\$100,000	\$95,000	\$150,000	\$(55,000)	\$2,500	\$2,500



# SOUTH CAROLINA AIRPORTS SYSTEM PLAN

## Demographic and Business Profile Report

(Data provided for 20 Mile Drive Distance from Airport)

### Total Population and Growth Rate

2000 Total Population	37,403
2008 Total Population	36,448
2013 Total Population	35,791
2000-2008 Annual Growth Rate	-0.3%
2008-2013 Annual Growth Rate	-0.4%

### Per Capita Income

2000 Per Capita Income	\$14,358
2008 Per Capita Income	\$18,222
2013 Per Capita Income	\$20,976

### Total Households

2000 Total Households	14,149
2008 Total Households	14,443
2013 Total Households	14,368

### Median Household Income

2000 Median HH Income	\$26,219
2008 Median HH Income	\$32,865
2013 Median HH Income	\$37,901

### Median Age

2000 Median Age	34.9
2008 Median Age	36.7
2013 Median Age	38.1

### 2008 Population by Age

Population 0 - 14	21.1%
Population 15 - 24	14.5%
Population 25 - 54	39.8%
Population 55 +	23.0%
Population 18+	74.5%
Population 85+	1.6%

### 2008 Civilian Population 16+ by Employment Status

Employed Civilian Pop 16+	12,967
Unemployed Civilian Pop 16+	1,981
Employment Rate	86.7%
Unemployment Rate	13.3%

### 2008 Employed Civilian Population by Industry

Agriculture/Mining	2.1%
Construction	7.0%
Manufacturing	21.9%
Retail/Wholesale Trade	13.0%
Transportation/Utilities	8.4%
Information	1.8%
Finance/Insurance/Real Estate	1.9%
Professional/Technical	2.8%
Management	0.0%
Accom/Food/Other Services	7.4%
Educational Services	11.4%
Health Care/Social Assistance	10.6%
Public Administration	6.2%
Admin/Support/Waste Svcs.	5.1%
Arts/Entertainment	0.6%

## 2008 Educational Attainment by Degree

<9th Grade	10.6%
Some High School	19.3%
High School Graduate	34.4%
Some College	15.2%
Associate Degree	6.0%
Bachelor's Degree	10.1%
Graduate/Professional Degree	4.3%

## 2008 Employed Civilian Population by Occupation

Management (incl. Farm Mgr.)	6.0%
Professional	11.9%
Sales	9.1%
Office/Administrative Support	12.8%
Life/Physical/Soc. Science/Soc. Svcs.	2.3%
Entertainment/Sports	0.6%
Health Care Pract/Support	8.8%
Protective Services	3.9%
Food Preparation/Serving	3.2%
Maintenance/Installation/Repair	10.3%
Construction/Extraction Services	5.8%
Production	15.9%
Transportation/Moving	8.8%
Farming/Fishing/Forestry	0.7%

## Top Businesses by Number of Employees within 20 Mile Drive Distance.

Company Name	Number of Employees
Us Department Of Energy	14,000
Allied Air Enterprises Inc	400
Hanesbrands	350
Dayco Products Inc	325
Clariant Corp	275
Collum'S Lumber Mill Inc	250
Milliken & Co	250
Mohawk Industries Inc	225
Wal-Mart Supercenter	201
Chappell Farms	200
Nibco Inc	149
Cpx Transportation	125
Food Lion	125
Augusta Fiberglass Coating Inc	100
Lifetime Doors Inc	100
Motley Rice Llc	100
Chem-Nuclear Systems Llc	100
Phil Sandifer & Sons Produce	90
Holland Atlantic Hitch Co	80
International Apparel Group	50
Highway Maintenance Dept	37
Coastal Lumber Co	30
Myrick Wireless	30
Williston Rescue Squad	30
Morris Mini-Mart Office	30
Mid Am Metal Forming	25
B & B Ford & Rentals Inc	21
Query-Pritchard Construction	20
Anderson Oil Co	10
Lower State Gas Heating & Air	8
Edisto Gas Co	4
Rainbow Oil Co	4

Source: ESRI, 2008 Estimates and Projections, 2000 Census, 2008 InfoUSA Business Data



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## 20 Mile Drive Distance Map

