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EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards response to Siting Analysis Branch 810318 request for addl info for incorporation into facility environ rept/ OL.

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FLORIDA POWER & LIGHT COMPANY

July 22, 1981
L-81-307

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit 2
Docket No. 50-389
Request For Additional Information,
ER-OL Review

Attached is Florida Power & Light Company's response to the March 18, 1981 Siting Analysis Branch request for additional information (Questions 310.1, 310.6, 310.7, and 310.8). This response will be incorporated into the St. Lucie Plant Unit 2 Environmental Report - Operating License in a future amendment.

Very truly yours,

Robert E. Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/TCG/bs

Attachments

CC: Harold F. Reis, Esquire (w/o attachments)

COO1
S
1/03

Question No.

310.1 The projections of age distribution for the year 2000 (Sections 2.1.2.1.6 and 2.1.2.2.8) are based on 1970 U.S. data. However, it is the case that:

- The data were about eight years old when used
- The U.S. population is "aging" as the postwar babies mature.
- Florida has an older population than the U.S.
- Florida's population grew by 28 percent between 1970 and 1977 (2.1.2.2.5)
- 90 percent of Florida's growth is attributable to net migration (2.1.2.2.5)
- more relevant bases of age distribution exist such as U.S. Bureau of Census, Current Population Reports, Series P-25, No. 796, "Illustrative Projections of State Populations by Age, Race, and Sex: 1975 to 2000," U.S. Government Printing Office, Washington, DC 1979.

Present revised Tables 2.1-2 and 2.1-4 using a more appropriate age distribution base.

Response

Tables 2.1-2 and 2.1-4 are revised estimates of the age distribution of the projected population for the year 2000 between zero and ten miles and ten and fifty miles of St Lucie Unit 2. The new age distribution estimates were based on the projections for the State of Florida presented in the U.S. Department of Commerce, Bureau of the Census publication entitled Illustrative Projections of State Population by Age, Race, and Sex 1975 to 2000. The new factors used to estimate the age distribution in the year 2000 are as follows:

Age Group	% of Total Population Year 2000
0-11	14.4
12-18	9.4
19 and over	76.2

TABLE 2.1-2

AGE DISTRIBUTION OF THE PROJECTED POPULATION FOR THE YEAR 2000
WITHIN TEN MILES OF ST LUCIE UNIT 2

Sector	0-1 miles			1-2 miles			2-3 miles			3-4 miles			4-5 miles			5-10 miles			Total 0-10 miles			Total 0-10 miles All ages
	12*	12-18**	18***	12	12-18	18	12	12-18	18	12	12-18	18	12	12-18	18	12	12-18	18	12	12-18	18	
N	0	0	0	55 ~~29~~	36 ~~18~~	289 ~~83~~	0	0	0	0	0	0	0	0	0	0	0	0	55 ~~29~~	36 ~~18~~	289 ~~83~~	380 ~~130~~
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	36 ~~26~~	24 ~~15~~	192 ~~74~~	1 ~~0~~	1 ~~0~~	8 ~~0~~	0	0	0	0	0	0	0	0	0	37 ~~26~~	25 ~~15~~	200 ~~74~~	262 ~~115~~
SSE	0	0	0	61 ~~16~~	40 ~~10~~	521 ~~45~~	44 ~~0~~	29 ~~0~~	231 ~~0~~	118 ~~51~~	78 ~~30~~	626 ~~146~~	304 ~~521~~	198 ~~316~~	1606 ~~1,500~~	1058 ~~1,731~~	690 ~~1,048~~	5597 ~~4,982~~	1584 ~~2,319~~	1034 ~~1,404~~	8383 ~~6,673~~	11001 ~~10,396~~
S	0	0	0	0	0	0	0	0	0	21 ~~58~~	14 ~~35~~	110 ~~166~~	22 ~~78~~	14 ~~47~~	114 ~~225~~	1110 ~~1,777~~	725 ~~1,076~~	5877 ~~5,115~~	1153 ~~1,913~~	753 ~~1,158~~	6101 ~~5,506~~	8007 ~~8,577~~
SSW	0	0	0	0	0	0	10 ~~36~~	7 ~~22~~	53 ~~103~~	36 ~~35~~	24 ~~21~~	191 ~~100~~	258 ~~103~~	168 ~~62~~	1365 ~~296~~	1153 ~~1,852~~	753 ~~1,121~~	6104 ~~5,333~~	1458 ~~2,026~~	951 ~~1,226~~	7713 ~~5,832~~	10122 ~~9,084~~
SW	0	0	0	5 ~~6~~	4 ~~4~~	28 ~~19~~	143 ~~22~~	94 ~~14~~	759 ~~65~~	509 ~~30~~	332 ~~18~~	2691 ~~87~~	744 ~~107~~	486 ~~64~~	3940 ~~307~~	795 ~~1,078~~	519 ~~652~~	4209 ~~3,102~~	2197 ~~1,243~~	1434 ~~752~~	11627 ~~3,580~~	15258 ~~5,575~~
WSW	0	0	0	7 ~~20~~	4 ~~12~~	36 ~~58~~	186 ~~9~~	122 ~~6~~	986 ~~27~~	479 ~~21~~	312 ~~13~~	2533 ~~60~~	851 ~~808~~	556 ~~489~~	4505 ~~2,327~~	2880 ~~4,460~~	1880 ~~2,700~~	15240 ~~12,840~~	4403 ~~5,318~~	2874 ~~3,220~~	23300 ~~15,312~~	30577 ~~23,850~~
W	0	0	0	2 ~~5~~	1 ~~3~~	9 ~~16~~	73 ~~21~~	48 ~~13~~	389 ~~62~~	391 ~~165~~	255 ~~100~~	2069 ~~475~~	637 ~~184~~	416 ~~112~~	3372 ~~531~~	389 ~~767~~	254 ~~465~~	2059 ~~2,210~~	1493 ~~1,142~~	974 ~~693~~	7897 ~~3,294~~	103[illegible] ~~5,12[illegible]~~
WNW	0	0	0	0	0	0	11 ~~35~~	7 ~~21~~	59 ~~99~~	142 ~~119~~	92 ~~72~~	748 ~~342~~	498 ~~407~~	326 ~~246~~	2640 ~~1,172~~	546 ~~870~~	356 ~~531~~	2888 ~~2,528~~	1197 ~~1,439~~	781 ~~870~~	6335 ~~4,141~~	8313 ~~6,450~~
NW	0	0	0	5 ~~0~~	3 ~~0~~	25 ~~0~~	0	0	0	7 ~~9~~	5 ~~6~~	37 ~~28~~	32 ~~39~~	21 ~~24~~	168 ~~114~~	6020 ~~9,618~~	3930 ~~5,822~~	31856 ~~27,689~~	6064 ~~9,666~~	3958 ~~5,852~~	32087 ~~27,831~~	42109 ~~43,349~~
NNW	0	0	0	129 ~~13~~	85 ~~8~~	685 ~~38~~	102 ~~17~~	66 ~~11~~	539 ~~50~~	76 ~~16~~	50 ~~9~~	402 ~~46~~	172 ~~27~~	112 ~~16~~	908 ~~77~~	566 ~~901~~	369 ~~545~~	2992 ~~2,593~~	1044 ~~974~~	682 ~~589~~	5527 ~~2,804~~	7253 ~~4,367~~
	0	0	0	300 ~~115~~	197 ~~70~~	1585 ~~333~~	570 ~~140~~	374 ~~87~~	3024 ~~406~~	1179 ~~504~~	1162 ~~304~~	9407 ~~1,450~~	3518 ~~2,274~~	2297 ~~1,376~~	18618 ~~6,549~~	14517 ~~23,062~~	9476 ~~13,960~~	76822 ~~66,392~~	20685 ~~26,095~~	13502 ~~15,797~~	109459 ~~75,130~~	143646 ~~117,022~~

*Persons eleven years of age or younger.
**Persons between and including twelve to eighteen years of age.
***Persons nineteen years of age or older.

TABLE 2.1-4

AGE DISTRIBUTION OF THE PROJECTED POPULATION FOR THE YEAR 2000
BETWEEN TEN AND 50 MILES OF ST LUCIE UNIT 2

Sector	10-20 miles			20-30 miles			30-40 miles			40-50 miles			Total 10-50 miles			Total 10-50 miles
	12*	12-18**	18***	12	12-18	18	12	12-18	18	12	12-18	18	12	12-18	18	All ages
N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	1902 ~~2,945~~	1241 ~~1,703~~	10064 ~~8,479~~	4322 ~~6,693~~	2821 ~~4,052~~	22869 ~~19,267~~	14461 ~~22,704~~	9570 ~~13,744~~	77579 ~~65,362~~	24723 ~~38,287~~	16139 ~~23,178~~	130828 ~~110,225~~	45608 ~~70,629~~	29771 ~~42,757~~	241340 ~~203,333~~	316,719
S	4546 ~~7,048~~	2967 ~~4,262~~	24056 ~~20,267~~	143 ~~222~~	93 ~~134~~	758 ~~638~~	1705 ~~2,640~~	1113 ~~1,598~~	9020 ~~7,600~~	17729 ~~27,455~~	11573 ~~16,621~~	93817 ~~79,043~~	24123 ~~37,357~~	15747 ~~22,615~~	127650 ~~107,548~~	167,520
SSW	444 ~~687~~	290 ~~416~~	2348 ~~1,979~~	874 ~~1,354~~	571 ~~820~~	4626 ~~3,897~~	37 ~~57~~	24 ~~34~~	194 ~~164~~	943 ~~1,461~~	616 ~~885~~	4993 ~~4,206~~	2298 ~~3,559~~	1500 ~~2,155~~	12162 ~~10,246~~	15,960
SW	444 ~~687~~	290 ~~416~~	2348 ~~1,979~~	417 ~~646~~	272 ~~391~~	2206 ~~1,858~~	19 ~~29~~	12 ~~18~~	100 ~~84~~	2573 ~~3,985~~	1680 ~~2,412~~	13617 ~~11,473~~	3453 ~~5,347~~	2254 ~~3,237~~	18271 ~~15,394~~	23,978
WSW	0	0	0	0	0	0	2224 ~~3,445~~	1452 ~~2,085~~	11771 ~~9,917~~	131 ~~203~~	86 ~~123~~	694 ~~585~~	2355 ~~3,648~~	1538 ~~2,208~~	12465 ~~10,502~~	16,358
W	446 ~~691~~	291 ~~418~~	2362 ~~1,990~~	0	0	0	2039 ~~3,158~~	1331 ~~1,912~~	10790 ~~9,090~~	297 ~~460~~	194 ~~278~~	1571 ~~1,324~~	2782 ~~4,309~~	1816 ~~2,608~~	14723 ~~12,404~~	19,321
WNW	160 ~~249~~	105 ~~150~~	850 ~~716~~	0	0	0	0	0	0	28 ~~43~~	18 ~~26~~	149 ~~126~~	189 ~~292~~	123 ~~176~~	998 ~~842~~	1,310
NW	3677 ~~5,694~~	2400 ~~3,447~~	19456 ~~16,392~~	246 ~~382~~	161 ~~231~~	1304 ~~1,098~~	493 ~~763~~	322 ~~462~~	2607 ~~2,197~~	0	0	0	4416 ~~6,839~~	2883 ~~4,140~~	23367 ~~19,687~~	30,666
NNW	959 ~~1,485~~	626 ~~899~~	5073 ~~4,274~~	9598 ~~14,864~~	6265 ~~8,998~~	50790 ~~42,791~~	689 ~~1,066~~	449 ~~646~~	3644 ~~3,070~~	443 ~~686~~	289 ~~416~~	2346 ~~1,976~~	11689 ~~18,101~~	7630 ~~10,959~~	61852 ~~52,111~~	81,171
	12578 ~~19,428~~	8210 ~~11,791~~	66557 ~~56,076~~	15600 ~~24,161~~	10188 ~~14,626~~	82553 ~~69,549~~	21867 ~~33,862~~	14273 ~~20,499~~	115705 ~~97,484~~	46867 ~~72,580~~	30595 ~~43,939~~	248015 ~~208,958~~	96913 ~~150,081~~	63262 ~~90,855~~	512828 ~~432,067~~	673,003

*Persons eleven years of age or younger.
**Persons between and including twelve to eighteen years of age.
***Persons nineteen years of age or older.

Question No.

310.6 The Hutchinson Island Residential Units Section (2.1.3.5.1) reports construction of a 203 unit apartment and 32 unit townhouse complex called Sand Dollar Villas to be completed in 1980. Sand Dollar Villas is 1.4 miles from the plant site.

The 1983 resident population forecasts (Figure 2.1-6, sheet 3 of 8) indicate 36 residents between 1 and 2 miles from the site in sectors SE and SSE. The 1983 peak daily and seasonal transient population (Figure 2.1-10, sheet 3 of 8) for the same sectors is 0. Reconcile the inconsistencies between the reported construction and the population forecasts for both resident and transient population within two miles of the plant.

Response

In 1981, Sand Dollar Villas contained 203 completed residential units. Discussions with the developer indicated that an additional 162 units would be completed by 1983, and another 144 units by 1986[1]. Based on 1980 preliminary census figures for St Lucie County, it was estimated that the household size on Hutchinson Island is approximately 0.44 persons per dwelling unit. This factor was used to derive the following resident population figures for Sand Dollar Villas. Transient population in Sand Dollar Villas will be composed of two components: 1) people who occupy their condominiums during the tourist season (winter); and, 2), visitors to friends and relatives. Together, these two components are expected to increase the population in Sand Dollar Villas by a factor of 3.6 times the resident population. The following table shows both resident and transient population for Sand Dollar Villas. Sand Dollar Villas is located in annular sectors SSE 1-2 and SE 1-2.

Year	Annular Sector	Resident Population	Transient Population
1981	SSE 1-2	45	162
	SE 1-2	45	162
1983	SSE 1-2	45	162
	SE 1-2	116	418
1986	SSE 1-2	108	389
	SE 1-2	116	418

Reference

(1) Personal Communication, Sand Dollar Villas Sales Office, Stuart, Florida, May, 1981.

Question No.

310.7 The ER-CP for St Lucie Unit No. 2 states that "studies conducted to date indicate that the land available for development on Hutchinson Island will be almost totally utilized by the end of this decade (by 1980)..." p. 2.2-4 Rev. 6-5/9/75.

Future residential development on Hutchinson Island "which falls within the five mile radius is expected to experience considerable development" (ER-OL 2.1.3.6 part b). The same section discusses the limited fresh water supply being a constraint to growth on the island. Are there plans to expand the supply of potable water to the island? If so, when and how would residential development of this island be affected?

Response There are plans to expand the water supply on Hutchinson Island. The Fort Pierce Utilities Authority (FPUA) plans to construct a 16 inch water main to a point approximately 3.5 miles south of St Lucie Unit 2(1). This water main is being installed to serve Island Dunes, a 572 unit high rise development which is scheduled for completion by 1988. The first building of Island Dunes will be completed in December, 1982(2). The FPUA water main serving Island Dunes is in addition to the 12-inch FPUA main already serving Hutchinson Island between St Lucie Unit 2 and the southern boundary of St Lucie County.

Other plans to expand the water supply on Hutchinson Island involve the construction of deep wells to the Floridan Aquifer. These wells employ a desalinization process called "reverse osmosis". They are being constructed by developers not served by public water supplies. On Hutchinson Island, all planned developments, except for Island Dunes and those projects within the City of Fort Pierce, will be providing their own potable water with the reverse osmosis process. This desalinization process is being encouraged by the South Florida Water Management District (SFWMD), and at present there do not appear to be any constraints, other than cost, to providing potable water in this manner(3). Furthermore, the SFWMD indicates that the reverse osmosis desalinization process "may soon become competitive with conventional treatment plants in terms of cost and reliability"(4).

The above plans to expand the potable water supply on Hutchinson Island appear to be encouraging new development there. Current plans for new development on the Island are extensive. The response to Question 310.8 tabulates the new developments which have been constructed recently or are planned within 5 miles of St Lucie 2. A total of 763 residential units were constructed in this area between 1978 and 1981; plans exist to build another 1,628 units by 1988. Development elsewhere on Hutchinson Island, in Fort Pierce Beach and south of the five-mile radius, is also occuring at a rapid pace.

References

(1) Personal communication, Fort Pierce Utilities Authority, Fort Pierce, Florida, May 12, 1981.

(2) Personal communication, Island Dunes sales office, Hutchinson Island, Florida, May 11, 1981.

(3) Personal communication, South Florida Water Management District, West Palm Beach, Florida, May 15, 1981.

(4) South Florida Water Management District, Summary Status Report, Upper East Coast, Water Use and Supply Development Plan, West Palm Beach, Florida, October, 1980.

Question No.

310.8 The FES-CP presents an estimated 1980 population for 0-5 miles of 1620 and from 5-10 miles of 61,000 (Figure 2.6). The ER-OL has estimates for 1980 of 12,291 and 70,594 for the 0-5 and 5-10 mile rings respectively. (Figure 2.1-6) While the 5-10 mile population estimates are only 15 percent off between the FES-CP and the ER-OL, the 0-5 mile estimates are over 650 percent different.

a. Are there any additional developments (besides Sand Dollar Villas and Oceana) under construction or being planned on Hutchinson Island? If so, give location, number of units, estimated date of completion, and revise resident and transient population estimates within five miles of the plant to be consistent with the available information.

b. Revise Table 2.1-12, Land Uses and Land Cover within Five Miles of St. Lucie Unit 2, to reflect these new developments.

Response

a. There are several new developments which have been constructed, are under construction or being planned within a five mile radius of St Lucie Unit 2. Table 310.8-1 lists the new developments on Hutchinson Island and the mainland which have occurred between 1978 and 1981. Table 310.8-2 lists those developments which are under construction or being planned. Both tables give the location of the development, the total number of units planned, and the expected completion date.

The resident and transient populations estimates within five miles of the plant have been revised to reflect the increased growth rate resulting from development activities on Hutchinson Island and the mainland within five miles of the plant. The revised resident and transient populations are given in Tables 310.8-3 and 310.8-4.

b) Table 2.1-12, Land Uses and Land Cover within Five Miles of St Lucie Unit 2, has been changed to reflect the new residential development which has occurred between 1978 and 1981 (See also Table 310.8-1 in part "a" of this answer.)

TABLE 310.8-1

NEW DEVELOPMENTS WITHIN 5 MILES OF ST LUCIE UNIT 2
BETWEEN 1978-1981 (AS OF MAY, 1981)

On Hutchinson Island:	Location by Annular Sector	Total Number of Units	Completion Date
Sand Dollar Villas	SE 1-2 SSE 1-2	203	1981
Ocean Towers	SSE 4-5	158	1981
Island Village	SSE 4-5	32	1981
Sheraton Condo (Formerly Sheraton Motel)	SSE 4-5	84	1978
Oceana	SSE 4-5	286	1981
MainLand:			
Golf Village	SW 3-4 4-5	617	1980
Midport	SSW 4-5 SW 4-5	375	1981

SOURCES: 1981 Aerial Photographs, Flown by Southern Resource Mapping Corporation, Ormond Beach, FLA, April 1981, Scale 1:9600; Field studies, May 1981.

TABLE 310.8-2

FUTURE DEVELOPMENTS WITHIN 5 MILES OF ST LUCIE UNIT 2
(1981 to FUTURE)

On Hutchinson Island:	Location by Annular Section	Total Number of Units	Completion Date
Sand Dollar Villas	SE 1-2 and SSSE 1-2	162 144	1983 1986
Island Dunes	SSE 3-4	108 540	1982 1987 or 1988
Island Village	SSE 4-5	102	1982
Islandia	SSE 4-5	388 184	1983 1986
Mainland:			
Saddle Club	WNW 4-5 NW 4-5	700 (Note: only 413 units are estimated to be in the five mile area.)	1985
The Grove	W 4-5	576	Before 1990
Savannah Club	SW 2-3 SW 3-4 SW 4-5 WSW 2-3 WSW 3-4 WSW 4-5	2560	Before 1990
Midport (Part of Port St Lucie)	SSW 3-4	426	End of 1981
	SSW 4-5 SW 3-4 SW 4-5	380 976	1983 1990

SOURCE: 1) Personal Communication, St Lucie County Area Coordinator, Fort Pierce, Florida, May, 1981.

2) Personal Communication, Treasure Coast Regional Planning Commission, Stuart, Florida, May, 1981.

3) Field studies, May 1981.

SL2-ER-OL

TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
1981

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	0	0	0	0	0
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	45	0	0	0	45
SSE	0	45	0	0	945	990
S	0	0	0	145	150	295
SSW	0	0	70	20	556	646
SW	0	37	16	241	2160	2454
WSW	0	47	0	16	3468	3531
W	0	12	30	213	503	758
WNW	0	0	77	515	892	1484
NW	0	0	0	49	84	133
NNW	0	0	0	0	0	0
Total	0	186	193	1199	8718	10336

SL2-ER-OL

TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
1983

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	124	0	0	0	124
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	130	0	0	0	130
SSE	0	87	102	137	1246	1572
S	0	0	0	145	150	295
SSW	0	0	70	75	620	765
SW	0	37	23	260	2926	3246
WSW	0	47	24	64	3517	3652
W	0	12	40	274	564	890
WNW	0	0	77	533	952	1562
NW	0	0	0	49	84	133
NNW	0	53	23	27	34	137
Total	0	490	359	1564	10093	12506

TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
1990

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	313	0	0	0	313
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	150	0	8	0	158
SSE	0	214	251	512	1457	2434
S	0	0	0	145	150	295
SSW	0	0	70	131	1731	1932
SW	0	37	675	2676	4884	8272
WSW	0	47	201	1129	3711	5088
W	0	12	55	427	2053	2547
WNW	0	0	77	610	2029	2716
NW	0	0	0	49	221	270
NNW	0	135	58	69	87	349
Total	0	908	1395	5748	16323	24374

SL2-ER-OL

TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
2000

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	380	0	0	0	380
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	252	10	0	0	262
SSE	0	422	304	822	2108	3656
S	0	0	0	145	150	295
SSW	0	0	70	251	1791	2112
SW	0	37	996	3532	5170	9735
WSW	0	47	1294	3324	5912	10577
W	0	12	510	2715	4425	7662
WNW	0	0	77	982	3464	4523
NW	0	33	0	49	221	303
NNW	0	899	707	528	1192	3326
Total	0	2082	3968	12348	24433	42831

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TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
2010

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	380	0	0	0	380
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	285	10	0	0	295
SSE	0	488	304	917	2326	4035
S	0	0	0	145	150	295
SSW	0	0	70	371	2327	2768
SW	0	37	1320	4394	5458	11209
WSW	0	47	2394	5534	8129	16104
W	0	12	967	5192	6950	13121
WNW	0	0	77	1503	5363	6943
NW	0	44	0	49	221	314
NNW	0	1164	935	687	1582	4368
Total	0	2457	6077	18792	32506	59832

TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
2020

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	380	0	0	0	380
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	285	10	0	0	295
SSE	0	488	304	917	2326	4035
S	0	0	0	145	150	295
SSW	0	0	70	616	2327	3013
SW	0	37	1974	6137	6040	14188
WSW	0	47	4619	10005	12612	27283
W	0	12	1892	8951	11071	21926
WNW	0	0	77	1503	5911	7491
NW	0	44	0	49	221	314
NNW	0	1164	935	687	1582	4368
Total	0	2457	9881	29010	42240	83588

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TABLE 310.8-3

RESIDENT POPULATION WITHIN 5 MILES OF ST LUCIE UNIT 2
2030

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	380	0	0	0	380
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	285	10	0	0	295
SSE	0	488	304	917	2326	4035
S	0	0	0	145	150	295
SSW	0	0	70	725	2327	3122
SW	0	37	2266	6914	6300	15517
WSW	0	47	5611	11998	14611	32267
W	0	12	2305	10627	12908	25852
WNW	0	0	77	1503	6155	7735
NW	0	44	0	49	221	314
NNW	0	1164	935	687	1582	4368
Total	0	2457	11570	33565	46580	94180

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TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

1981

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	0	0	0	0	0
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	162	0	0	0	162
SSE	0	162	0	0	3507	3669
S	0	0	0	9	9	18
SSW	0	0	4	1	33	38
SW	0	2	1	14	130	147
WSW	0	3	0	1	208	212
W	0	1	2	13	52	68
WNW	0	0	5	31	54	90
NW	0	0	0	3	5	8
NNW	0	0	0	0	0	0
Total	0	330	12	72	3998	4412

TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

1983

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	446	0	0	0	446
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	468	0	0	0	468
SSE	0	313	367	493	4591	5764
S	0	0	0	9	9	18
SSW	0	0	4	5	37	46
SW	0	2	1	16	176	195
WSW	0	3	1	4	211	219
W	0	1	2	16	56	75
WNW	0	0	5	32	57	94
NW	0	0	0	3	5	8
NNW	0	191	83	97	122	493
Total	0	1424	463	675	5264	7826

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TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

1990

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	1127	0	0	0	1127
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	540	29	0	0	569
SSE	0	770	904	1843	5350	8867
S	0	0	0	10	11	21
SSW	0	0	5	9	121	135
SW	0	3	47	187	342	579
WSW	0	3	14	79	260	356
W	0	1	4	30	166	201
WNW	0	0	5	43	142	190
NW	0	0	0	3	15	18
NNW	0	486	209	248	313	1256
Total	0	2930	1217	2452	6720	13319

TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

2000

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	1368	0	0	0	1368
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	907	36	0	0	943
SSE	0	1519	1094	2959	7694	13266
S	0	0	0	12	13	25
SSW	0	0	6	20	143	169
SW	0	3	80	283	414	780
WSW	0	3	104	266	473	846
W	0	1	41	217	376	635
WNW	0	0	6	79	277	362
NW	0	3	0	4	18	25
NNW	0	3236	2545	1901	4784	12466
Total	0	7040	3912	5741	14192	30885

TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

2010

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	1368	0	0	0	1368
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	1026	36	0	0	1062
SSE	0	1757	1094	3301	8479	14631
S	0	0	0	12	13	25
SSW	0	0	6	30	186	222
SW	0	3	106	352	437	898
WSW	0	3	192	443	650	1288
W	0	1	77	415	578	1071
WNW	0	0	6	120	429	555
NW	0	4	0	4	18	26
NNW	0	4190	3366	2473	5695	15724
Total	0	8352	4883	7150	16485	36870

TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

2020

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	1368	0	0	0	1368
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	1026	36	0	0	1062
SSE	0	1757	1094	3301	8479	14631
S	0	0	0	13	14	27
SSW	0	0	6	55	209	270
SW	0	3	178	552	544	1277
WSW	0	4	416	900	1135	2455
W	0	1	170	806	1018	1995
WNW	0	0	7	135	532	674
NW	0	4	0	4	20	28
NNW	0	4190	3366	2473	5695	15724
Total	0	8353	5273	8239	17646	39511

TABLE 310.8-4

PEAK DAILY TOURISTS AND SEASONAL VISTORS WITHIN 5 MILES OF ST LUCIE UNIT 2

2030

Annular Sector	0-1	1-2	2-3	3-4	4-5	Total 0-5
N	0	1368	0	0	0	1368
NNE	0	0	0	0	0	0
NE	0	0	0	0	0	0
ENE	0	0	0	0	0	0
E	0	0	0	0	0	0
ESE	0	0	0	0	0	0
SE	0	1026	36	0	0	1062
SSE	0	1757	1094	3301	8479	14631
S	0	0	0	15	15	30
SSW	0	0	7	62	233	302
SW	0	4	197	614	604	1419
WSW	0	5	462	1001	1261	2729
W	0	1	189	895	1129	2214
WNW	0	0	8	150	591	749
NW	0	4	0	5	22	31
NNW	0	4190	3366	2473	5695	15724
Total	0	8355	5359	8516	18029	40259

TABLE 2.1-12

LAND USES AND LAND COVER WITHIN FIVE MILES OF ST LUCIE UNIT 2

Level IL and Use Classification	Acreage	Percent of Total	Level II Land Use Classification	Acreage	Percent of Total	Level III Land Use Classification	Acreage	Percent of Total
1. URBAN OR BUILT-UP LAND	3,541	7.0	11. Residential	2,807	5.5	111. Single-family Residences	2,698	5.4
						112. Multiple-family Residences	49	.1
						116. Transient Lodgings	60	.1
			12. Commercial and Services	28	*	122. Retail, Commercial Services	22	*
						123. Institutional Services	6	*
			13. Industrial	14	*	131. Light Industrial	14	*
			14. Transportation, Communications, and Utilities	964	2.0	141. Highway, Principal Road	210	.4
						142 Railroad	50	.1
						143. St Lucie 1 & 2 Facilities	300	.6
						144. Transmission Lines	386	.8
						145. Utility Storage	18	*
			17. Other Urban or Built-up Land	235	.5	171. Cemetery	10	*
						172. Undeveloped Land	37	.1
						173. Recreation Facilities	188	.4
2. AGRICULTURAL LAND	541	1.1	21. Cropland and Pasture	449	.9	212. Citrus Groves	449	.9
			22. Other Agricultural Land	92	.2	221. Nurseries	9	*
						222. Old Field	83	.2
4. FOREST/MARSH COVER*	10,653	21.2	41. Coniferous Forest/ Freshwater Marsh	7,432	14.8	410. Pine Flatwood Freshwater Marsh	5,116	10.2
						411. Freshwater Marsh	2,316	4.6

TABLE 2.1-12 (Cont'd)

Level IL and Use Classification	Acreage	Percent of Total	Level II Land Use Classification	Acreage	Percent of Total	Level III Land Use Classification	Acreage	Percent of Total
			42. Other Forested* Wetland	2,714	5.4	421. Mangrove	2,714	5.4
5. WATER	34,849	69.3	51. Freshwater	1,243	2.5	510. Streams and Canals	113	.2
						511. Lakes	1,130	2.3
			52. Fresh/Salt Water	10,656	21.2	520. Estuary	10,656	21.2
			55. Salt Water	22,950	45.6	550. Open Marine Water	22,950	45.6
7. BARREN LAND	682	1.4	71. Natural Barren Land	97	.2	710. Beaches	97	.2
			74. Man-made Barren Land	585	1.2	740. Transitional Areas	390	.8
						741. Extractive	195	.4
	50,266	100%		50,266	100%		50,266	100%

*The forest cover is to a great extent concentrated in a transitional area which is primarily marshy but includes relatively dry sites. In addition, the Florida land use/cover classification system considers mangroves as a type of wetland - hardwood forest. To account for these considerations, the USGS categories of Forest and Wetlands were combined.

*Less than .1%