


United States Nuclear Regulatory Commission Official Hearing Exhibit	
Progress Energy Florida, Inc. (Levy County Nuclear Power Plant, Units 1 and 2)	
	ASLBP #: 09-879-04-COL-BD01
	Docket #: 05200029 05200030
	Exhibit #: PEF010-00-BD01
	Admitted: 10/31/2012
	Rejected: 10/31/2012
Other:	
Identified: 10/31/2012 Withdrawn: Stricken:	

**Levy Nuclear Plant Units 1 and 2
COL Application
Part 3, Environmental Report**

Table 2.7-2 (Sheet 1 of 3)

Climatological Data from Gainesville, Jacksonville, Orlando, Tallahassee, and Tampa, Florida

Parameter	Station					Tampa (years)
	Gainesville (years)	Jacksonville (years)	Orlando (years)	Tallahassee (years)	POR (years)	
Location						
Distance from LNP Site (mi.)	47	112	91	138		78
Direction from LNP Site	NNE	NE	ESE	NW		S
Elevation Above Mean Sea Level (ft.)	134	26	90	57		8
Temperature						
Average Annual Observed (°F)	68.7	68.8	72.5	67.6	54	72.3
Maximum Observed (°F)	108 (7/2000)	105 (7/1942)	102 (5/1945)	103 (7/2000)	64	99 (6/1985)
Minimum Observed (°F)	10 (1/1985)	7 (1/1985)	19 (1/1985)	6 (1/1985)	64	18 (12/1962)
Normal Degree days/year (heating)	1143	1354	580	1604	30	591
Normal Degree days/year (cooling)	2659	2627	3428	2551	30	3482
Relative Humidity (%)						
Annual average at 7 A.M.	93	91	91	91	30	88
Annual average at 1 P.M.	59	58	56	55	30	59
Wind						
Annual average speed (mph)	6.3	6.8	7.9	5.6	23	7.1

**Levy Nuclear Plant Units 1 and 2
COL Application
Part 3, Environmental Report**

**Table 2.7-2 (Sheet 2 of 3)
Climatological Data from Gainesville, Jacksonville, Orlando, Tallahassee, and Tampa, Florida**

Parameter	Station									
	Gainesville	POR (years)	Jacksonville	POR (years)	Orlando	POR (years)	Tallahassee	POR (years)	Tampa	POR (years)
Prevailing direction	ENE	23	NE	39	N	41	N	31	ENE	38
Fastest mile/Peak gust										
Speed (mph) ^(a)	64 (9/2004)	8	77 (7/1998)	10	105 (8/2004)	10	83 (9/1990)	10	61 (6/1988)	11
Direction ^(a)	NE	8	W	10	ESE	10	ESE	10	NNW	11
Precipitation (in.)										
Annual average	48.36	30	52.34	30	48.35	30	63.21	30	44.77	30
Monthly maximum	16.45 (9/2004)	23	19.36 (9/1949)	65	19.57 (7/1960)	64	20.12 (7/1964)	46	20.59 (7/1960)	60
Monthly minimum	T (10/1987)	23	0.04 (12/1956)	65	T (12/1944)	64	T (10/1987)	46	T (3/2006)	60
24-hour maximum	6.16 (9/1988)	23	10.17 (9/1950)	65	9.67 (9/1945)	64	10.13 (7/2001)	46	12.11 (7/1960)	60
Maximum annual	58.37 (2004)	23	79.63 (1991)	30	67.85 (1994)	30	104.18 (1964)	46	67.71 (1997)	30
Snowfall (in.)										
Annual average	0.0	30	0.0	30	0.0	30	0.0	30	0.0	30
Monthly maximum	T (4/1997)	15	1.5 (2/1958)	60	T (5/1997)	34	1.0 (12/1989)	36	0.2 (1/1977)	60
Maximum 24-hour	T (4/1997)	15	1.5 (2/1958)	60	T (5/1997)	34	1.0 (12/1989)	36	0.2 (1/1977)	60

**Levy Nuclear Plant Units 1 and 2
COL Application
Part 3, Environmental Report**

**Table 2.7-2 (Sheet 3 of 3)
Climatological Data from Gainesville, Jacksonville, Orlando, Tallahassee, and Tampa, Florida**

Parameter	Station					
	Gainesville	Jacksonville	Orlando	Tallahassee	Tampa	POR (years)
Mean Annual (number of days)						
Precipitation ≥ 0.01 in.	125.4	115.9	117.0	113.5	104.3	30
Snow, sleet, hail ≥ 1.0 in.	0.0	0.0	0.0	0.0	0.0	30
Heavy fog (visibility ≤ 0.25 mi.)	46.5	39.3	18.0	49.8	15.3	43
Maximum temperature ≥ 90°F	89.5	78.4	108.7	92.2	90.0	30
Minimum temperature ≤ 32°F	11.7	18.3	2.7	34.4	2.7	30

Notes:

a) Reported wind speeds are the higher of peak gust, 3-second gust, or 5-second gust.

°F = degrees Fahrenheit

E = east

ft. = foot

in. = inch

mi. = mile

mph = miles per hour

N = north

POR = period of record

S = south

T = trace amount

W = west

Sources: [References 2.7-001, 2.7-002, 2.7-003, 2.7-004, 2.7-005, 2.7-006, and 2.7-007](#)