

**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									
	Gainesville	POR (years)	Jacksonville	POR (years)	Orlando	POR (years)	Tallahassee	POR (years)	Tampa	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	25	68.8	59	72.5	54	67.6	59	72.3	74
Maximum Observed (°F)	108 (7/2000)	23	105 (7/1942)	65	102 (5/1945)	64	103 (7/2000)	46	99 (6/1985)	60
Minimum Observed (°F)	10 (1/1985)	23	7 (1/1985)	65	19 (1/1985)	64	6 (1/1985)	46	18 (12/1962)	60
Normal Degree days/year (heating)	1143	30	1354	30	580	30	1604	30	591	30
Normal Degree days/year (cooling)	2659	30	2627	30	3428	30	2551	30	3482	30
Relative Humidity (%)										
Annual average at 7 A.M.	93	30	91	30	91	30	91	30	88	30
Annual average at 1 P.M.	59	30	58	30	56	30	55	30	59	30
Wind										
Annual average speed (mph)	6.3	23	6.8	23	7.9	23	5.6	23	7.1	23

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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) <sup>(a)</sup>	64 (9/2004)	8	77 (7/1998)	10	105 (8/2004)	10	83 (9/1990)	10	61 (6/1988)	11
Direction <sup>(a)</sup>	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

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Parameter	Station									
	Gainesville	POR (years)	Jacksonville	POR (years)	Orlando	POR (years)	Tallahassee	POR (years)	Tampa	POR (years)
Mean Annual (number of days)										
Precipitation $\geq$ 0.01 in.	125.4	30	115.9	30	117.0	30	113.5	30	104.3	30
Snow, sleet, hail $\geq$ 1.0 in.	0.0	30	0.0	30	0.0	30	0.0	30	0.0	30
Heavy fog (visibility $\leq$ 0.25 mi.)	46.5	23	39.3	43	18.0	39	49.8	43	15.3	43
Maximum temperature $\geq$ 90°F	89.5	30	78.4	30	108.7	30	92.2	30	90.0	30
Minimum temperature $\leq$ 32°F	11.7	30	18.3	30	2.7	30	34.4	30	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](#)