

FLORIDA POWER & LIGHT COMPANY

St. Lucie Plant Unit No. 1

License No. - DPR-67

Docket No. 50-335

ANNUAL RADIOLOGICAL ENVIRONMENTAL

MONITORING REPORT

for

The Period: 1-01-81 to 12-31-81

Prepared 3-19-82

(Supplemented July 1982)

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## 1.0 Introduction

This report is submitted in accordance with St. Lucie Plant Technical Specifications' Section 5.6.1.b.

The St. Lucie Plant Radiological Environmental Sampling Program for January 1, 1981 thru December 31, 1981 is summarized in Table 1. This program is conducted in accordance with the provisions of Appendix B to the St. Lucie, Unit No. 1, Technical Specifications. Except as otherwise noted herein, the minimum Technical Specification requirements for sampling and analysis have been met or exceeded.

Garden and milk animal censuses, are required by St. Lucie Technical Specifications. A garden census was conducted in June. Milk animal censuses were conducted in February and June. A summary of the results of these surveys is provided in Table 2.

## 2.0 The Monitoring Program

### 2.1 Analytical responsibility

Environmental radiological monitoring at the St. Lucie Plant is carried out by the Department of Health and Rehabilitative Services of Florida (DHRS). Samples are collected and analyzed by DHRS personnel.

2.2 During the period, a total of 1158 samples were collected including 19 samples collected and analyzed in accordance with the DHRS/DOE split sampling program. Table 1 summarizes the range and mean results for all sample locations and where applicable the range and mean results for the control locations and for sample locations which yielded the highest mean levels. The numbers of samples which yielded detectable measurements compared to the total numbers of samples analyzed are also indicated.

## 3.0 Missing and Non-Conforming Data

### 3.1 Missing Data

During this period, five samples for particulates in air were missed. A description of the affected samples and the reason for not being collected is provided in Table 1A.

### 3.2 Non-Conforming Data

In order to meet the detection limits for  $^{131}\text{I}$  in milk, DHRS sends samples to an outside contractor. During the period January 1, 1981 - December 31, 1981, the detection limit for  $^{131}\text{I}$  in milk was exceeded for six samples. In one instance, a sample did not reach its destination and was apparently lost in the mail. DHRS' detection limit for that sample was used in lieu of the missing result. The remaining instances where the detection limit for  $^{131}\text{I}$  in milk was exceeded occurred because of sample spoilage during shipment to the outside laboratory. A description of the affected samples is provided in Table 1A.

Based upon the sample results that were obtained during this period as well as historical data for the St. Lucie Plant, no changes to the conclusions of this report would be expected because of the missing or non-conforming data.

## 4.0 Discussion and Interpretation of Results

### 4.1 Atmospheric Weapons Test

During the first half of 1981, the radiological effects of a Chinese Weapons Test, which took place on October 16, 1980, continued to be reflected in environmental samples collected as a part of the St. Lucie Plant Radiological Environmental Surveillance Program. Similar effects were observed throughout the U.S. and Florida. Airborne particulate gross beta radioactivity peaked in April 1981 ( $0.370 \text{ pCi/m}^3$ ) then decreased during the second and third quarters. Average airborne particulate beta radioactivity for the fourth quarter was in the normal expected range at  $0.019 \text{ pCi/m}^3$ . Gamma analyses on particulate filter samples collected during the affected period revealed the presence of particulate form fission products such as  $^{106}\text{Ru}$  and  $^{95}\text{Zr}$ . There were no detectable measurements of radioiodines in any of the air samples. No fission products were detected on filter samples collected during the fourth quarter.

Two garden vegetation samples that were collected in March 1981 revealed abnormal levels of  $^{137}\text{Cs}$  ( $2790 \text{ pCi/kg ave.}$ ) and  $^{95}\text{Zr}$  ( $220 \text{ pCi/kg ave.}$ ) Based upon the timing of the sample collections and the known atmospheric radiological conditions throughout the sample growing period the most probable explanation for the elevated levels of fission product radioactivity in the garden samples is that they were effects associated with the October 16 weapons tests. However, due to the close proximity of the garden to the St. Lucie Plant (approximately 2 miles WSW), and the unavailability of suitable control specimens for the garden samples, release data from the St. Lucie Plant were evaluated to determine if a correlation existed between the released data and the measured levels of radioactivity in the garden samples. Since there were no measurable levels of  $^{137}\text{Cs}$  or its parent isotope  $^{137}\text{Xe}$  in airborne effluents from the St. Lucie Plant and since the winds were blowing in the WSW direction for only approximately 2% of the total time, there is

no apparent correlation of the measured levels of radioactivity in the garden samples to operation of the St. Lucie Plant. It has been further noted that elevated levels of  $^{137}\text{Cs}$  and  $^{95}\text{Zr}$  have been observed during the same period by other licensees within the state of Florida. Effects from the weapons test therefore remains the most likely explanation for the elevated level of radioactivity in the garden sample. It should also be noted however, that  $^{137}\text{Cs}$  levels in the same range have been measured in other types of Florida vegetation prior to the operation of nuclear power plants in Florida, and that  $^{137}\text{Cs}$  levels in Florida soils are significantly above the national average.

#### 4.2 Water Samples

During normal operation of St. Lucie Unit 1, small quantities of radioactivity are periodically released from the plant. As a result tritium may from time to time be detectable in the plant discharge canal. During this period (January 1 - December 31, 1981) there were detectable levels of tritium in three of the twelve samples collected from the discharge canal. As indicated in Table 1, the highest concentration of tritium observed in the St. Lucie Plant discharge canal was 7200 pCi/l. This level of tritium represents only about 0.24% of the allowable limit for tritium in water in unrestricted areas. In fact, this amount of tritium is only about 36% of that which would be allowed if the discharge canal represented a source of drinking water. However, no drinking water sources are affected by effluents from the St. Lucie Plant. No other radioisotopes which could be attributed to the operation of the St. Lucie Plant were detected in water samples from the discharge canal or environment surrounding the St. Lucie Plant.

#### 4.3 Other Environmental Samples

Bottom samples collected from within the St. Lucie Plant discharge canal indicate that there is a detectable level of  $^{60}\text{Co}$  in the canal's bottom sediment. The levels reported are low and are consistent with previous measurements.

Atmospheric fallout from the October 16 Chinese Weapons Test is responsible for the presence of  $^{95}\text{Zr}$  which was detected in some of the beach and soil samples collected during the first and second quarters of 1981.

Measurements of radionuclides and/or radiation for all other environmental samples provided in Table 1 are consistent with measurements made during pre-operational surveillance programs

#### 5.0 Conclusions

The Chinese weapons test conducted on October 16, 1980, had a significant impact on radiological environmental samples collected in the vicinity of the St. Lucie Plant during the first two quarters of 1981.

With respect to the St. Lucie Plant, the operation of St. Lucie Unit No.1 is not contributing significantly to the presence or buildup of radioactivity in the environment around the St. Lucie Plant. Operation of St. Lucie Unit No.1 is not contributing significantly to the exposure of any individual or population group or to any radiological consequence involving the health or safety of any individual or population group. The concentrations of any radionuclides reported in Table 1 are much less than that permitted for those radionuclides in unrestricted areas as provided in 10CFR20, Appendix B.

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DOCKET NO. 50-335  
 LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
1.1 AIR							
1. Particulate filter (pCi/l)	Gross B (464)	.002	.105 (463/463) (.003-.481)	H30: Residence at 7609 Indian River Dr. (2 miles - 245°)	.118 (52/52) (.010-.481)	.113 (51/51) (.011-.376)	
2. Particulate filter (pCi/l)	Y Scan on monthly Composite of filters (12)						
	1. <sup>95</sup> Zr	.02	.182 (7/12) (.027-.308)	NA	NA	NA	
	2. <sup>106</sup> Ru	.09	.094 (1/12) (NA)	NA	NA	NA	
	3. Others	--	ND	NA	NA	NA	
3. Particulate filter (pCi/l)	Quarterly Composite						
	<sup>89</sup> Sr (4)	.010	ND	NA	NA	NA	
	<sup>90</sup> Sr (4)	.007	ND	NA	NA	NA	
4. Radioiodine filter (pCi/l)	<sup>131</sup> I (464)	.02	ND	NA	NA	NA	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).

ND- NOT DETECTABLE

NA- NOT APPLICABLE

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DOCKET NO. 50-335LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
<b>1.2 DIRECT RADIATION</b> 1. TLD (uRem/hr)	Exposure rate (72)	--	6.4 (72/72) (3.5-22.3)	H12: FPL Substation, Stuart, FL (12 miles-180°)	20.2 (8/8) (19.6-22.3)	5.0 (8/8) (4.5-5.4)	
<b>2.1 SURFACE WATER</b> 1. Discharge Canal (pCi/l)	Y emitting isotopes (12)	--	ND	NA	NA	NA	
	tritium (12)	200	2920 (3/12) (460-7200)	H36: Discharge Canal (0.2 miles - 101°)	2920 (3/12) (460-7200)	NA	
	<sup>89</sup> Sr (12)	3	ND	NA	NA	NA	
	<sup>90</sup> Sr (12)	2	ND	NA	NA	NA	
2. Ocean (pCi/l)	Y emitting isotopes (24)	--	ND	NA	NA	ND	
	tritium (24)	200	250 (1/24) (NA)	H15: Offshore near discharge (0.5 - 89°)	250(1/24) (NA)	ND	
	<sup>89</sup> Sr (24)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (24)	2	ND	NA	NA	ND	
Estuarine (pCi/l)	Y emitting isotopes (4)	--	ND	NA	NA	NA	
	tritium (4)	200	ND	NA	NA	NA	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).

ND- NOT DETECTABLE

NA- NOT APPLICABLE

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DOCKET NO. 50-335LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
<u>2.2 GROUND WATER WELL</u>							
1. Ground Water (pCi/l)	Y emitting isotopes (4)	--	ND	NA	NA	NA	
	tritium (4)	200	ND	NA	NA	NA	
	Gross β-DS (4)	0.8	ND	NA	NA	NA	
	Gross β-UDS (4)	0.8	ND	NA	NA	NA	
<u>2.3 POTABLE WATER WELL</u>							
1. Drinking Water (pCi/l)	Y emitting isotopes (12)	--	ND	NA	NA	NA	
	tritium (12)	200	ND	NA	NA	NA	
	Gross β-DS (12)	0.8	15.8 (1/12) (NA)	H31: North Port St. Lucie Water System (6.6 miles -250°)	15.8 (1/4) (NA)	NA	
	Gross β-UDS (12)	0.8	ND	NA	NA	NA	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).

ND- NOT DETECTABLE

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TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DCKET NO. 50-335LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
<b>3.0 BOTTOM SEDIMENTS</b>							
1. Discharge Canal (pCi/Kg)	γ emitting isotopes (2)						
	1. <sup>60</sup> Co	11	660 (2/2) (210-1110)	H36: Discharge Canal (0.2 miles - 101°)	660 (2/2) (210-1110)	NA	
	2. Others	--	ND	NA	NA	NA	
	<sup>89</sup> Sr (2)	3	ND	NA	NA	NA	
	<sup>90</sup> Sr (2)	2	ND	NA	NA	NA	
2. Ocean (pCi/Kg)	γ emitting isotopes (8)	--	ND	NA	NA	ND	
	<sup>89</sup> Sr (8)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (8)	2	ND	NA	NA	ND	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).

ND- NOT DETECTABLE      NA- NOT APPLICABLE

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DOCKET NO. 50-335  
 LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
3. Beach Sand (pCi/Kg)	Y emitting isotopes (6)						
	1. <sup>90</sup> Zr	20	65 (2-6) (60-70)	H16: Ocean Site Opposite Blind Creek (1 mile - 31°)	70 (1/2) (NA)	ND	
	2. Other	--	ND	NA	NA	ND	
	<sup>89</sup> Sr (6)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (6)	2	ND	NA	NA	ND	
4. Estuarine (pCi/Kg)	Y emitting isotopes (2)	--	ND	NA	NA	NA	
	<sup>89</sup> Sr (1)	3	ND	NA	NA	NA	
	<sup>90</sup> Sr (1)	2	ND	NA	NA	NA	
4.0 <u>AQUATIC BIOTA</u>							
1. Crustacea (pCi/Kg)	Y emitting isotopes (4)	--	ND	NA	NA	ND	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).

ND- NOT DETECTABLE NA- NOT APPLICABLE

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DUCKET NO. 50-335LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
2. Fish, Carnivore (pCi/Kg) (Jack, Trout)	γ emitting isotopes (4)	--	ND	NA	NA	ND	
	<sup>89</sup> Sr (4)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (4)	2	31 (1/4)	H15: Off Shore near discharge (0.5-89 <sup>o</sup> )	NA	ND	
3. Fish, Herbivore (pCi/Kg) (mullet)	γ emitting isotopes (4)	--	ND	NA	NA	ND	
	<sup>89</sup> Sr (4)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (4)	2	ND	NA	NA	ND	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).

ND- NOT DETECTABLE      NA- NOT APPLICABLE

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 BUCKET NO. 50-335  
 LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
3. Food Crop (pCi/Kg) (Vegetation, garden greens)	Y emitting isotopes (2) 1. <sup>137</sup> Cs 2. <sup>95</sup> Zr 3. <sup>131</sup> I 4. Others	5 8 6 --	2790 (2/2) (2570-3000) 220 (2/2) (160-270) ND ND	H41: Residence 8407 Indian River Drive (2 miles - 245°) H41: Residence 8407 Indian River Drive (2 miles - 245°) NA NA	2790 (2/2) (2570-3000) 220 (2/2) (160-270) NA NA	NA NA NA NA	
4. Soil (pCi/Kg)	Y emitting isotopes (3) 1. <sup>137</sup> Cs 2. <sup>95</sup> Zr 3. Others	14 20 --	310 (3/3) (240-380) 110 (2/3) (100-120) ND	H30: Residence, 7609 Indian River Drive (2 miles-245°) H30: Residence, 7609 Indian River Drive (2 miles - 245°) ND	310 (3/3) (240-380) 110 (2/3) (100-120) NA	NA NA NA	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).  
 ND- NOT DETECTABLE NA- NOT APPLICABLE

TABLE 1

NAME OF FACILITY ST. LUCIE PLANT, UNIT 1 DOCKET NO. 50-335LOCATION OF FACILITY ST. LUCIE COUNTY, FLORIDA REPORTING PERIOD January 1, 1981 - December 31, 1981

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Location with Highest Annual Mean		Control Locations Mean (f) <sup>a</sup> Range <sup>a</sup>	Number of Nonroutine Reported Measurements
				Name Distance and Direction	Mean(f) <sup>a</sup> Range <sup>a</sup>		
<b>5.0 TERRESTRIAL</b>							
1. Milk (pCi/l)	γ emitting isotopes (36)						
	1. <sup>137</sup> Cs	6	26 (20/36) (14-51)	H40: Davis Dairy, West Palm Beach (56 miles-172°)	33 (9/12) (15-51)	33 (9/12) (15-51)	
	<sup>89</sup> Sr (36)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (36)	2	2.4 (36/36) (2-4)	H40 Davis Dairy, West Palm Beach (56 miles-172°)	2.8 (12/12) (2-4)	2.8 (12/12) (2-4)	
	<sup>131</sup> I (35)	0.5	ND	NA	NA	ND	
2. Food Crop (pCi/Kg) (Citrus)	γ emitting isotopes (8)	--	ND	NA	NA	ND	
	<sup>89</sup> Sr (7)	3	ND	NA	NA	ND	
	<sup>90</sup> Sr (7)	2	23.6 (7/7) (7.0 - 59.5)	H24 Poster Groves (5.4 miles - 300°)	59.5 (1/1) (NA)	21.9 1/1 (NA)	

<sup>a</sup>) Mean and range based upon detectable measurements only. Fraction of detectable measurements at specific locations is indicated in parentheses (f).  
 ND- NOT DETECTABLE      NA- NOT APPLICABLE

TABLE 1A

Radiological Environmental Monitoring Report  
Missing and Non-conforming Data

Missing Data

<u>Medium or Pathway Sampled</u>	<u>Analysis For</u>	<u>Location/Date</u>	<u>Reason Missing</u>
Particulates in Air	Gross	H-08/2-12-81	Damaged filter
" " "	"	H-09/7-20-81	Equipment failure
" " "	"	H-32/7-20-81	Filter missing at collection time
" " "	"	H-33/10-20-81	Sample tubing found disconnected
" " "	"	H-08/12-1-81	Vandalism

Non-conforming Data

The following analytical results were not in conformance with the St. Lucie, Unit<sup>1</sup> Technical Specifications, Table 3.2-3, St. Lucie Plant: Detection Capabilities for Environmental Sample Analysis.

<u>Medium or Pathway Sampled</u>	<u>Analysis For</u>	<u>Location/Date</u>	<u>Detection Requirement (pCi/l)</u>	<u>Value Reported (pCi/l)</u>	<u>Reason for Non-Conformance</u>
Milk	<sup>131</sup> I	H03/5-20-81	<0.5	<0.55	Sample Spoilage during shipment
"	"	H03/6-18-81	"	<2.0	" "
"	"	H03/7-31-81	"	<0.8	" "
"	"	H03/8-19-81	"	<0.55	" "
"	"	H40/8-5-81	"	<0.7	" "
"	"	H03/12-9-81	"	<6	Sample - lost in mail. This result was based upon a DHRS analysis

TABLE 2

St. Lucie Plant: Garden, Residence and Milch Animal Census for Period 1/1/81 to 12/31/81

## DISTANCE TO NEAREST(a,b)

Sector	Milk Cows	Cows Others	Milk Goat	Residence	500ft <sup>2</sup> Vegetable Garden
N	0(c)	0	0	0	0
NNE	0	0	0	0	0
NE	0	0	0	0	0
ENE	0	0	0	0	0
E	0	0	0	0	0
ESE	0	0	0	0	0
SE	0	0	0	1.6/142	0
SSE	L(d)	L	L	3.4/153	L
S	L	L	L	3.2/191	4.8/17
SSW	L	L	L	2.2/213	L
SW	L	L	L	1.9/236	1.9/235
WSW	L	L	L	1.9/(f)	1.9/245
W	L	3/270	L	1.3/274	3.2/279
WNW	L	L	7.1/298(e)	2.3/281	2.3/284
NW	L	L	13.5/317	3.5/304	4.2/310
NNW	L	L	L	L	L

TABLE 2 NOTES

- (a) Locations reported out to 5 miles radius from the plant except "Milk, Goat" to 15 miles.
- (b) The following format is used to denote the location:  
distance (miles)/bearing (degrees)  
For example, the residence located in the Southeast sector at a distance of 1.6 miles bearing 142 degrees is recorded as 1.6/142.
- (c) 0 denotes that the sector area is predominantly an ocean area.
- (d) L denotes that the sector area is predominantly a land area unoccupied by the category type.
- (e) These goats do not produce milk for human consumption.
- (f) Several residences in this sector are located approximately 1.9 miles from the St. Lucie Plant.