NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

DOCKET NUMBER: 50-250/251

FILE NUMBER:

TO: Mr. Donald Elliot

FROM: Florida Power & Light Company, Miami, Florida, W. S. Tucker

DATE OF DOCUMENT: 5/10/77

DATE RECEIVED: 5/16/77

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DESCRIPTION

Ltr. trans the following:

(1-P)

ENCLOSURE

Consists of the Groundwater Monitoring Program Data Report No. 59 for the May, 1977 monitoring period for the E-series wells including the results of the transmissivity test for the quarter ending March, 1977....

(8-P)

ACKNOWLEDGED DO NOT REMOVE

PLANT NAME: Turkey Point Units 3 & 4

RJL

SAFETY		FOR ACTION/INFORMATION	ENVIRO
ASSIGNED AD:		ASSIGNED AD:	
BRANCH CHIEF:	Lear (S)	BRANCH CHIEF:	
PROJECT MANAGER:	Elliott	PROJECT MANAGER:	
LIC. ASST.:	Parrish	LIC. ASST.:	

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NRC FORM 195 (2-76)

P. O. BOX 013100, MIAMI, FL 33101

FLORIDA POWER & LIGHT COMPANY

May 10, 1977

Mr. Donald Elliot
Operating Reactors
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Regulatory File Cy.

Dear Mr. Elliot:

Re: Groundwater Monitoring Program, Turkey Point
Docket No. 50-250/251, Control No. 8728

Enclosed please find the Groundwater Monitoring Data Report No. 59 for the May 1977 monitoring period for the E-series wells.

Also enclosed are the results of the transmissivity test for the quarter ending March 1977.

Sincerely,

for Judy Barnett

W. S. Tucker, Manager
Environmental Affairs

Enc.

TURKEY POINT COOLING CANAL SYSTEM

QUARTERLY TRANSMISSIVITY TEST

E - SERIES WELLS

FOR THE MONTH OF APRIL, 1977

WELL DESIGNATION	DATE OF TEST	HEAD DRAW DOWN IN FT.	PUMPING RATE GPM
E-1	4/19/77	.15	170
E-2	4/19/77	0.25	170
E-3	4/19/77	0.35	170
E-4	4/19/77	0.55	170
E-5	4/19/77	0.78	153
E-6	4/19/77	0.55	162
E-7	4/20/77	0.62	181
E-8	4/20/77	0.53	176
E-9	4/20/77	Well Blocked	
E-10	4/20/77	1.25	171
E-11	4/20/77	0.59	181
E-12	4/20/77	0.65	181
E-13	4/20/77	1.08	181
E-14	4/20/77	0.45	181
E-15	4/20/77	0.40	171
E-16	4/20/77	1.15	180
E-17	4/20/77	.20	175
E-18	4/20/77	.27	183
E-19	4/20/77	.81	171
E-20	4/20/77	.22	175
E-21	4/20/77	.18	175
E-22	4/20/77	.37	167
E-23	4/20/77	.17	183

FLORIDA POWER & LIGHT CO.

REPORT SEQUENCE NO. 59
DATE SUBMITTED 5/2/77

GROUNDWATER MONITORING DATA FOR TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL DEPTH BELOW REF.,(FT.)	WATER LEVEL ELEV. (FT.,MSL)	SURFACE WATER DEPTH BELOW REF.,(FT.)	SURFACE WATER ELEV. (FT.,MSL)	FIELD MEASUREMENT MEASURED AT DEPTH BELOW REF.,(FT.)	MEASURED AT ELEV. (FT.,MSL)	CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM	WATER SAMPLE	NOTES
E-1	4/26	1040	3.44	4.34	-.90	NSW		20	-16.56	48,500	24.3	0.0	✓	
								40	-36.56	52,000	24.6			
								60	-56.56	52,500	24.7			
E-2	4/26	1050	2.33	2.10	.23	NSW		20	-17.67	51,000	24.2	0.0	✓	
								40	-37.67	52,000	24.6			
								60	-57.67	52,000	24.6			
E-3	4/26	1028	4.89	5.23	-.34	NSW		20	-15.11	25,000	26.6	0.0	✓	
								40	-35.11	55,000	24.3			
								60	-55.11	55,500	23.5			
E-4	4/26	1020	2.41	2.99	-.58	NSW		20	-17.59	38,500	25.0	0.0	✓	
								40	-37.59	53,000	25.3			
								60	-57.59	55,500	25.4			
E-5	4/26	1010	7.57	6.74	.63	NSW		20	-12.63	59,000	32.7	0.0	✓	
								40	-32.63	60,500	33.9			
								60	-52.63	60,500	34.0			
E-6	4/26	1000	6.52	6.20	.32	NSW		20	-13.48	56,500	29.9	0.0	✓	
								40	-33.48					BLOCKED AT 40'
								60	-53.48					

FLORIDA POWER & LIGHT CO.

REPORT SEQUENCE NO. 59
DATE SUBMITTED 5/2/77

GROUNDWATER MONITORING DATA FOR TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL DEPTH BELOW REF.,(FT.)	WATER LEVEL ELEV. (FT.,MSL)	SURFACE WATER DEPTH BELOW REF.,(FT.)	SURFACE WATER ELEV. (FT.,MSL)	FIELD MEASUREMENT MEASURED AT DEPTH BELOW REF.,(FT.)	MEASURED AT ELEV. (FT.,MSL)	CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE	WATER SAMPLE	NOTES
E-7	4/27	0915	2.04	1.27	0.77	1.57	0.47	20	-17.96	57500	23.5	0.0	✓	
								40	-37.96					BLOCKED
								60	-57.96					
E-8	4/27	0925	4.23	3.57	0.66	NSW		20	-15.77	53500	24.0	0.0	✓	
								40	-35.77	58000	25.0			
								60	-55.77	58000	25.2			
E-9	4/27	0930	4.20	3.46	0.74	3.23	0.97	20	-15.80	54000	23.5	0.0	✓	
								40	-35.80	58000	23.5			
								60	-55.80	59000	23.5			
E-10	4/27	0945	4.19	3.36	0.83	NSW		20	-15.81	55500	24.3	0.0	✓	
								40	-35.81	56000	25.0			
								60	-55.81	56500	25.1			
E-11	4/27	0940	4.23	3.47	0.76	NSW		20	-15.77	56500	24.0	0.0	✓	
								40	-35.77	56500	24.4			
								60	55.77	56500	24.5			
E-12	4/27	0955	3.56	2.78	0.78	2.52	1.06	20	-16.44	51500	24.0	0.0	✓	
								40	-36.44	57000	25.2			
								60	-56.44	57000	25.3			

FLORIDA POWER & LIGHT CO.

REPORT SEQUENCE NO. 59
DATE SUBMITTED 5/2/77

GROUNDWATER MONITORING DATA FOR TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT						NOTES
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT)	ELEV. (FT.,MSL)	MEASURED AT DEPTH BELOW REF.,(FT.)	MEASURED AT ELEV. (FT.,MSL)	CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM	WATER SAMPLE	
E-13	4/27	1000	3.96	3.19	0.77	3.01	0.95	20	-16.04	54000	24.4	0.0	✓	
								40	-36.04	55500	24.9			
								60	-56.04	55500	25.0			
E-14	4/27	1007	3.47	2.94	0.53	NSW		20	-16.53	55000	24.6	0.0	✓	
								40	-36.53	55000	25.2			
								60	-56.53	55000	25.3			
E-15	4/27	1015	3.63	3.09	0.54	NSW		20	-16.37	54000	24.4	0.0	✓	
								40	-36.37	55500	25.2			
								60	-56.37	55500	25.3			
E-16	4/27	1020	4.83	4.22	0.61	NSW		20	-15.17	52500	24.4	0.0	✓	
								40	-35.17	54500	25.4			
								60	-55.17	55500	25.4			
E-17	4/27	1025	2.31	1.68	0.63	NSW		20	-17.69	54500	25.0	0.0	✓	
								40	-37.69	55000	25.4			
								60	-57.69	55500	25.4			
E-18	4/27	1030	3.23	2.65	0.58	NSW		20	-16.77	53000	24.7	0.0	✓	
								40	-36.77	55500	25.3			
								60	-56.77	56000	25.3			

FLORIDA POWER & LIGHT CO.

REPORT SEQUENCE NO. 59
DATE SUBMITTED 5/2/77

GROUNDWATER MONITORING DATA FOR TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT						NOTES
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT DEPTH BELOW REF.,(FT.)	MEASURED AT ELEV. (FT.,MSL)	CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM	WATER SAMPLE	
E-19	4/27	1105	3.61	2.73	0.88	NSW		20	-16.39	49000	24.1	0.0	✓	
								40	-36.39	59000	24.9			
								60	-56.39	59000	25.0			
E-20	4/27	1100	4.04	3.25	0.79	NSW		20	-15.96	46000	23.7	0.0	✓	
								40	-35.96	53500	24.3			
								60	-55.96	57500	24.5			
E-21	4/27	1035	3.24	2.45	0.79	NSW		20	-16.76	49500	23.9	0.0	✓	
								40	-36.76	56000	24.7			
								60	-56.76	57500	24.8			
E-22	4/27	1045	2.41	1.71	0.70	1.57	0.84	20	-17.59	60000	24.5	0.0	✓	
								40	-37.59	60500	24.8			
								60	-57.59	60500	24.8			
E-23	4/27	1050	4.29	3.88	0.41	3.73	0.56	20	-15.71	58000	25.0	0.0	✓	
								40	-35.71	59500	25.2			
								60	-55.71	60000	25.2			

P. O. BOX 013100, MIAMI, FL 33101

FPL

FLORIDA POWER & LIGHT COMPANY

May 10, 1977

Mr. Abe Kreitman, Director
Groundwater Division
Resource Planning Department
South Florida Water Management
District
P. O. Box V
West Palm Beach, Florida 33402

Dear Mr. Kreitman:

Re: FPL/FCD Cooling Canal System Agreement
Turkey Point Plant, Dade County

Enclosed are the laboratory analyses of the groundwater samples taken for the March and April 1977 monitoring period.

Sincerely,

for W. S. Tucker, Manager
Environmental Affairs

Enc.
cc: Mr. Donald Elliot, USNRC (Docket No. 50-250/251)
(Control No. 8728)

GROUNDWATER MONITORING PROGRAM

FCD WELL SERIES

TURKEY POINT FLORIDA

CHLORIDE DATA OF MARCH, 1977

WELL DESIGNATION	SAMPLE DATE	DEPTH IN FT.	CHLORIDE IN PPM
G-6	2/24/77	59'	15,956
G-7	2/24/77	57'	456
G-21	2/25/77	59'	2,261
G-27	2/24/77	37'	10,333
G-28	2/25/77	55'	5,622
G-35	2/25/77	59'	8,585
ID-A	2/26/77	19'	17,932
ID-B	2/26/77	34'	18,387
ID-C	2/26/77	59'	18,007
ID-D	2/26/77	60'	17,324
ID-E	2/26/77	28'	16,537
L-1	2/24/77	59'	16,564
L-2	2/25/77	47'	17,703
L-3	2/25/77	60'	16,868
L-4	2/25/77	39'	14,360
L-5	2/25/77	35'	13,981
L-6	2/25/77	60'	17,961
X-1	2/26/77	60'	19,147
X-2	2/26/77	58'	19,375

GROUNDWATER MONITORING PROGRAM

FCD -WELL SERIES

TURKEY POINT, FLORIDA

CHLORIDE DATA OF APRIL, 1977

WELL DESIGNATION	SAMPLE DATE	DEPTH IN FT.	CHLORIDE IN PPM
ID-A	3/26/77	22'	18,630
ID-B	3/26/77	39'	19,226
ID-C	3/26/77	59'	18,779
ID-D	3/26/77	40'	17,288
ID-E	3/26/77	60'	17,437
L31-1	3/25/77	58'	17,139
L31-2	3/25/77	39'	17,437
L31-3	3/25/77	57'	18,034
L31-4	3/25/77	60'	16,543
L31-5	3/25/77	39'	15,798
L31-6	3/25/77	58'	18,332
X-2	3/30/77	60'	20,418