

STEAM GENERATOR REPAIR PROGRAM

FOR

TURKEY POINT UNIT 4

RADIOLOGICAL PROGRESS REPORT - NO. 3

FOR THE PERIOD

FEBRUARY 3, 1983 THROUGH MARCH 30, 1983

DOCKET NO. 50-251 -

LICENSE NO. DPR-41

FLORIDA POWER AND LIGHT COMPANY

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PDR ADOCK 05000251
R PDR

THE UNIVERSITY OF CHICAGO
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TABLE 3D
SUMMARY OF POST-INSTALLATION ACTIVITY EXPOSURES
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

ACTIVITY DESCRIPTION	ESTIMATED LABOR (PERSON-HOURS)	ACTUAL LABOR EXPENDED TO DATE (PERSON-HOURS)	ESTIMATED EXPOSURE (PERSON-REM)	ACTUAL EXPOSURE FOR REPORTING PERIOD (PERSON-REM)	ACTUAL EXPOSURE EXPENDED TO-DATE (PERSON-REM)	ACTIVITY STATUS (C-COMPLÈTE) (I-IN PROGRESS)
1. Remove temporary containments and ventilation.	970	1,129	5.97	4.10	4.10	C
2. Installation of miscellaneous steel.	600	2,681	2.33	7.38	7.38	C
3. Installation of miscellaneous piping in S/G cubicles.	350	3,817	7.58	12.37	12.37	C
4. Installation of permanent electrical cables/equipment.	580	442	5.00	1.59	1.59	C
5. Installation of concrete stop logs, concrete forms, rebar and pouring of new concrete 30'6" & 58' el.	5,490	2,539	22.08	7.10	7.10	C
6. Installation of emergency containment coolers.	210	1,118	2.52	2.24	2.24	C
7. Installation of CRDM coolers and fans.	100	64	0.42	0.28	0.28	C
8. Install manipulator crane.	0	178	0	0.49	0.49	I



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TABLE 3D (Continued)
SUMMARY OF POST-INSTALLATION ACTIVITY EXPOSURES
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

ACTIVITY DESCRIPTION	ESTIMATED LABOR (PERSON-HOURS)	ACTUAL LABOR EXPENDED TO DATE (PERSON-HOURS)	ESTIMATED EXPOSURE (PERSON-REM)	ACTUAL EXPOSURE FOR REPORTING PERIOD (PERSON-REM)	ACTUAL EXPOSURE EXPENDED TO-DATE (PERSON-REM)	ACTIVITY STATUS (C-COMplete) (I-IN PROGRESS)
9. Installation of reactor coolant pump motors.	0	1,219	0	4.68	4.68	C
10. S/G tube cleaning and inspection.	0	302	0	8.31	8.31	C
11. Conduct S/G secondary hydrostatic testing.	0	281	0	0.59	0.59	C
12. Reactor preparation/hot functional testing.	0	40	0	0.52	0.52	I
13. Removal of secondary exhaust system.	140	252	3.03	1.74	1.74	I
14. Remove temporary shielding.	84	527	2.10	4.02	4.02	I
15. Remove scaffolding - all elevations.	830	0	7.85	0	0	I
16. On-going decontamination activities.	2,730	0	8.20	0	0	I
17. Remove/dispose of contaminated materials.	900	0	7.41	0	0	I
18. Project non-manual support.	1,720	0	24.75	0	0	I

TABLE 3D (Continued)
SUMMARY OF POST-INSTALLATION ACTIVITY EXPOSURES
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

ACTIVITY DESCRIPTION	ESTIMATED LABOR (PERSON-HOURS)	ACTUAL LABOR EXPENDED TO DATE (PERSON-HOURS)	ESTIMATED EXPOSURE (PERSON-REM)	ACTUAL EXPOSURE FOR REPORTING PERIOD (PERSON-REM)	ACTUAL EXPOSURE EXPENDED TO-DATE (PERSON-REM)	ACTIVITY STATUS (C-COMPLETE) (I-IN PROGRESS)
19. Containment tool and weld rod room support.	210	0	0.63	0	0	I
20. Crane operation and maintenance.	685	0	1.36	0	0	I
21. Miscellaneous.	5,875	295	39.77	0.42	0.42	I
Phase Activity Totals	21,474	14,884	141	55.83	55.83	
Total Phase IV (Completed Tasks Only)	8,300	13,592	45.90	49.16	49.16	

TABLE 4
PERSONNEL EXPOSURE SUMMARY PER PHASE
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

PHASE DESCRIPTION	ESTIMATED LABOR EXPENDED TO-DATE (PERSON-HOURS)	ACTUAL LABOR EXPENDED TO-DATE (PERSON-HOURS)	TOTAL ESTIMATED EXPOSURE (PERSON-REM)	ESTIMATED EXPOSURE EXPENDED TO-DATE (PERSON-REM)	ACTUAL EXPOSURE FOR REPORTING PERIOD (PERSON-REM)	ACTUAL EXPOSURE EXPENDED TO-DATE (PERSON-REM)	PHASE STATUS (C-COMplete) (I-IN PROGRESS) (NS-NOT STARTED)
Preparation	34,992	49,422	283	283	0.00	229.99	C
Removal	69,129	54,457	1,016	1,016	0:00	395.62	C
Installation	82,000	132,539	644	644	311.12	562.60	C
Miscellaneous ^a	21,474	14,884	141	141	55.83	55.83	I
Project totals	207,595	251,302	2,084	2,084	366.95	1,244.04	
(Completed Phases Only)	186,121	236,418	1,943	1,943	N/A	1,188.21	

^aMiscellaneous (post-installation) - includes cleanup, storage and miscellaneous preparations prior to start-up.

TABLE 5
SUMMARY OF RADIOACTIVE EFFLUENT RELEASES
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

1983

I. LIQUID EFFLUENT RELEASES			RADIOACTIVITY RELEASED IN LIQUID EFFLUENTS (CURIES)		TOTAL ACTIVITY RELEASED THIS REPORTING PERIOD	TOTAL RELEASED DURING S/G REPAIR TO DATE
RADIONUCLIDE	FEBRUARY 2/3 - 3/2	MARCH 3/3 - 3/30				
Ag-110m	*	6.95E-05			6.95E-05	3.09E-04
Co-58	3.38E-04	1.13E-03			1.47E-03	1.21E-02
Co-60	6.53E-04	3.0E-03			3.65E-03	1.67E-02
Cs-134	1.11E-04	3.18E-04			4.29E-04	8.36E-03
Cs-136	*	*			*	1.90E-04
Cs-137	2.21E-04	7.04E-04			9.25E-04	1.55E-02
I-131	*	*			*	1.79E-02
I-133	*	*			*	2.50E-03
I-135	*	*			*	2.60E-04
Mn-54	1.47E-05	7.67E-05			9.14E-05	1.94E-04
Nb-95	9.80E-06	*			9.80E-06	8.53E-05
TOTAL	1.35E-03	5.30E-03			6.65E-03	7.41E-02
Tritium Released (Curies)			0.0	0.0	0.0	4.7E+01
Liquid Effluent Volume Released (Liters)			1.22E+06	1.27E+06	VOLUME RELEASED THIS REPORTING PERIOD 2.49E+06	VOLUME RELEASED DURING S/G REPAIR TO DATE 8.51E+06
*Not detectable						

TABLE 5 (Continued)
SUMMARY OF RADIOACTIVE EFFLUENT RELEASES
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

1983

I. AIRBORNE RELEASES		RADIOACTIVITY RELEASED IN AIRBORNE EFFLUENTS (CURIES)			TOTAL ACTIVITY RELEASED THIS REPORTING PERIOD	TOTAL RELEASED DURING S/G REPAIR TO DATE
A.. NOBLE GASES						
RADIONUCLIDE	FEBRUARY 2/3 - 3/2	MARCH 3/3 - 3/30				
Ar-41	*	*			*	3.52E-01
Kr-85	*	*			*	4.09E-01
Kr-85m	*	*			*	2.23E-01
Kr-88	*	*			*	1.39E-01
Xe-131m	*	*			*	1.37E+00
Xe-133	*	*			*	8.62E+02
Xe-133m	*	*			*	3.89E+00
Xe-135	*	*			*	6.59E+00
TOTAL	*	*			*	8.75E+02
TRITIUM	*	*			*	2.65E-02
B. HALOGENS						
Br-82	*	*			*	1.90E-04
I-131	*	1.80E-09			1.80E-09	3.30E-02
I-133	*	*			*	5.62E-03
TOTAL	*	1.80E-09			1.80E-09	3.88E-02

*Not Detectable

TABLE 5 (Continued)
SUMMARY OF RADIOACTIVE EFFLUENT RELEASES
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

1983

I. AIRBORNE RELEASES		RADIOACTIVITY RELEASED IN AIRBORNE EFFLUENTS (CURIES)		TOTAL ACTIVITY RELEASED THIS REPORTING PERIOD	TOTAL RELEASED DURING S/G REPAIR TO DATE
C. PARTICULATES					
RADIONUCLIDE	FEBRUARY 2/3 - 3/2	MARCH 3/3 - 3/30			
Ba-140	*	*		*	2.00E-05
Co-57	*	*		*	3.50E-07
Co-58	8.60E-06	1.70E-05		2.56E-05	3.64E-04
Co-60	2.80E-05	4.90E-05		7.70E-05	2.46E-04
Cr-51	*	*		*	1.20E-05
Cs-134	2.20E-06	3.90E-06		6.10E-06	1.07E-04
Cs-136	*	*		*	3.54E-05
Cs-137	8.50E-06	1.00E-05		1.85E-05	2.16E-04
I-131	*	*		*	1.04E-04
La-140	*	*		*	1.40E-05
Mn-54	*	2.10E-06		2.10E-06	2.05E-05
Nb-93	*	*		*	3.10E-06
Ru-103	*	*		*	3.80E-06
TOTAL	4.73E-05	8.20E-05		1.29E-04	1.15E-03

*Not Detectable

TABLE 6
SUMMARY OF SOLID LOW-LEVEL RADIOACTIVE WASTE
REPORTING PERIOD 3 FEBRUARY 1983 TO 30 MARCH 1983
TURKEY POINT - UNIT 4

I. SOLID LOW-LEVEL RADIOACTIVE WASTE GENERATED FROM U-4 S/G REPAIR

WASTE FORM	VOLUME LLW ^a IN CU-FT FOR REPORTING PERIOD	VOLUME LLW IN CU-FT TO DATE
Compacted Dry Active Waste	7,086	22,742
Non-Compacted Dry Active Waste	1,050	3,200
Resin and Filter Media	455	1,494
Channel Head Decontamination Waste	0	595
Miscellaneous	0	0
Totals	8,591	28,031

II. SOLID LOW-LEVEL REPAIR ACTIVITY WASTE SHIPPED

REPORTING PERIOD DATES	VOLUME LLW ^a SHIPPED IN CU-FT	ESTIMATED ACTIVITY ^b CURIES
10 October 82 - 2 December 82	7,191	0.332
3 December 82 - 2 February 83	8,217	120.250
3 February 83 - 30 March 83	8,591	7.458
Totals	23,999	128.040

^a LLW - Low-level (radioactive) waste.

^b Predominant radionuclides ^{137}Cs , ^{60}Co , ^{58}Co .

