Entergy Nuclear South
Entergy Operations, Inc.
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Timothy G. Mitchell
Director, Engineering
Waterford 3

W3F1-2004-0107

October 29, 2004

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

SUBJECT: Supplement to Amendment Request NPF-38-249
Extended Power Uprate
Waterford Steam Electric Station, Unit 3
Docket No. 50-382
License No. NPF-38

REFERENCES:
1. Entergy Letter dated November 13, 2003, "License Amendment Request NPF-38-249 Extended Power Uprate"
2. Entergy Letter dated May 7, 2004, "Supplement to Amendment Request NPF-38-249 Extended Power Uprate"
3. Entergy Letter dated October 29, 2004, "Supplement to Amendment Request NPF-38-249 Extended Power Uprate"
4. Entergy Letter dated July 14, 2004, "Supplement to Amendment Request NPF-38-249 Extended Power Uprate"

Dear Sir or Madam:

By letter (Reference 1), Entergy Operations, Inc. (Entergy) proposed a change to the Waterford Steam Electric Station, Unit 3 (Waterford 3) Operating License and Technical Specifications to increase the unit's rated thermal power level from 3441 megawatts thermal (MWt) to 3716 MWt.

As committed to in Reference 1 and mentioned in Reference 2, Entergy performed confirmatory testing of the emergency Diesel Generator (DG) fuel oil consumption rate to validate the consumption rate assumed in the analysis supporting the Extended Power Uprate (EPU). During reviews of these test results, Entergy discovered that instrument uncertainties had not been adequately addressed in the supporting analysis and therefore the assumptions used in support of the EPU were non-conservative. As a result, a revised basis for showing that acceptable fuel oil inventories are available in support of the EPU based on the existing licensing basis has been provided for NRC staff review in Reference 3. Therefore, the information in Reference 3 supersedes information regarding the use of a DG fuel oil consumption rate less than that provided by the vendor previously submitted in Reference 1 (i.e., portions of Section 2.5.8.1 in Attachment 5) and Reference 2 (i.e., the response to Question 10 in Attachment 1).

A001

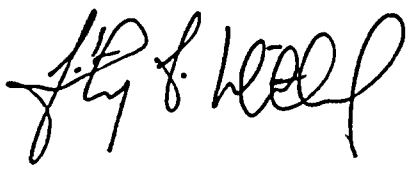
Post-EPU DG load summaries are attached to this letter providing updated information and supercede the load summaries previously provided in Reference 2. For comparison, the pre-EPU DG load summaries are located in Final Safety Analysis Report Table 8.3-1.

The no significant hazards consideration included in Reference 4 is not affected by any information contained in this letter. There are no new commitments contained in this letter.

If you have any questions or require additional information, please contact D. Bryan Miller at 504-739-6692.

I declare under penalty of perjury that the foregoing is true and correct. Executed on October 29, 2004.

Sincerely,



TGM/dbm

Attachment: Updated Emergency Diesel Generator Load Summaries

cc: Dr. Bruce S. Mallett
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

NRC Senior Resident Inspector
Waterford 3
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Killona, LA 70066-0751

U.S. Nuclear Regulatory Commission
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Washington, DC 20555-0001

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Surveillance Division
P. O. Box 4312
Baton Rouge, LA 70821-4312

American Nuclear Insurers
Attn: Library
Town Center Suite 300S
29th S. Main Street
West Hartford, CT 06107-2445

Attachment

To

W3F1-2004-0107

Updated Emergency Diesel Generator Load Summaries

EMERGENCY DIESEL GENERATOR A LOADING SEQUENCE (STEADY STATE)

EQUIPMENT	NOTES	RATED	RUNNING	SKVA	TIME	LOAD WITH LOSS OF OFFSITE POWER					
						LOCA		MSLB		SHUTDOWN	
						KW	KVAR	KW	KVAR	KW	KVAR
LOAD SUMMARY.											
0-10s :Generator Starts											
10-10.5s:Load Block 1a						336.66	274.56	336.66	274.56	322.24	260.14
10.5-11s:Load Block 1b						336.66	274.56	336.66	274.56	327.19	260.14
11-11.5s:Load Block 1c						363.13	321.89	363.13	321.89	353.66	307.46
11.5-15s:Load Block 1d						1017.07	628.23	1017.07	628.23	353.66	307.46
15-17s :Load Block 2a						1062.58	664.11	1062.58	664.11	399.17	343.34
17-27s :Load Block 2b						1884.36	1222.28	1884.36	1222.28	1205.90	856.21
27-39s :Load Block 3						2538.69	1604.38	2538.69	1604.38	1549.26	1075.52
39-51s :Load Block 4						2755.99	1695.03	2755.99	1695.03	1717.89	1138.28
51-60s :Load Block 5a						3417.75	2065.23	3417.75	2065.23	2379.65	1508.48
60-120s :MOVs Deenergize						3402.00	2049.47	3402.00	2049.47	2378.32	1507.15
120-178s:Load Block 5b						3475.48	2064.86	3475.48	2064.86	2451.80	1522.54
178-201s:Load Block 6a						3495.86	2082.38	3495.86	2082.38	2472.19	1540.06
201-210s:Load Block 6b						3496.56	2083.24	3496.56	2083.24	2472.88	1540.92
210-229s:Load Block 6c						3536.43	2112.32	3536.43	2112.32	2512.75	1570.00
229s-30m:Load Block 6d						3952.80	2370.44	3952.80	2370.44	2892.06	1805.13
30m-30m25s:Auto Load Bloc						4122.14	2500.46	4122.14	2500.46	3440.19	2080.34
30m25s-75m:Manual Loading						4121.44	2499.76	4121.44	2499.76	3440.19	2080.34
75-90m :LPSI Deenergizes						3774.38	2321.72	3774.38	2321.72	3440.19	2080.34
90m-2h:Turb Aux Deenergize						3718.42	2283.44	3718.42	2283.44	3384.23	2042.06
2h-2h50s: Manual MOV						3719.08	2284.10	3718.42	2283.44	3384.23	2042.06
2h50s-4h:MOV Deenergize						3718.42	2283.44	3718.42	2283.44	3384.23	2042.06
4-6h :EFW Deenergize						3413.58	2095.29	3413.58	2095.29	3276.37	2030.99
6-8h : SFP Pump Start						3454.29	2121.61	3454.29	2121.61	3317.08	2057.31
8-10h : BA Pumps Deenergize						3427.83	2108.85	3427.83	2108.85	3290.62	2044.55
10-14h : Chrg Deenergize						3362.37	2064.09	3362.37	2064.09	3290.62	2044.55
14-17h : CCW Makeup						3335.73	2041.39	3335.73	2041.39	3263.98	2021.85
17-4d : de EDG Xfer pump						3314.29	2025.11	3314.29	2025.11	3242.55	2005.56
4-7d :WCT fans 5-8 de						3218.59	1969.08	2917.49	1847.90	3242.55	2005.56

EMERGENCY DIESEL GENERATOR B LOADING SEQUENCE (STEADY STATE)

EQUIPMENT	NOTES	RATED	RUNNING	SKVA	TIME	LOAD WITH LOSS OF OFFSITE POWER					
						LOCA		MSLB		SHUTDOWN	
						KW	KVAR	KW	KVAR	KW	KVAR
LOAD SUMMARY:											
0-10s :Generator Starts											
10-10.5s:Load Block 1a						320.81	265.49	320.81	265.49	304.67	249.35
10.5-11s:Load Block 1b						320.81	265.49	320.81	265.49	309.52	249.35
11-11.5s:Load Block 1c						346.92	312.60	346.92	312.60	335.64	296.46
11.5-15s:Load Block 1d						1000.69	618.90	1000.69	618.90	335.64	296.46
15-17s :Load Block 2a						1046.20	654.78	1046.20	654.78	381.15	332.35
17-27s :Load Block 2b						1864.60	1212.24	1864.60	1212.24	1184.65	844.42
27-39s :Load Block 3						2536.48	1593.94	2536.48	1593.94	1546.26	1083.26
39-51s :Load Block 4						2753.70	1684.52	2753.70	1684.52	1714.90	1145.97
51-60s :Load Block 5a						3415.56	2053.57	3415.56	2053.57	2376.75	1515.02
60-120s :MOVs Deenergize						3398.09	2036.10	3398.09	2036.10	2375.42	1513.69
120-178s:Load Block 5b						3464.22	2051.34	3464.22	2051.34	2441.54	1528.93
178-201s:Load Block 6a						3485.59	2072.50	3485.59	2072.50	2462.91	1550.10
201-210s:Load Block 6b						3486.28	2073.37	3486.28	2073.37	2463.60	1550.96
210-229s:Load Block 6c						3512.99	2096.09	3512.99	2096.09	2490.32	1573.69
229s-30m:Load Block 6d						3929.30	2354.16	3929.30	2354.16	2869.57	1808.78
30m-30m25s:Auto Load Bloc						4098.96	2480.30	4098.96	2480.30	3421.22	2079.96
30m25s-75m:Manual Loading						4098.26	2479.60	4098.26	2479.60	3421.22	2079.96
75-90m :LPSI Deenergizes						3751.92	2321.52	3751.92	2321.52	3421.22	2079.96
90m-2h:Turb Aux Deenergize						3695.97	2283.27	3695.97	2283.27	3365.27	2041.71
2h-2h50s: Manual MOV						3696.63	2283.93	3695.97	2283.27	3365.27	2041.71
2h50s-4h:MOV Deenergize						3695.97	2283.27	3695.97	2283.27	3365.27	2041.71
4-6h :EFW Deenergize						3391.13	2095.11	3391.13	2095.11	3256.69	2010.69
6-8h : SFP Pump Start						3431.84	2121.44	3431.84	2121.44	3297.39	2037.01
8-10h : BA Pumps Deenergize						3431.84	2121.44	3431.84	2121.44	3297.39	2037.01
10-14h : Chrg Deenergize						3366.44	2076.71	3366.44	2076.71	3297.39	2037.01
14-17h : CCW Makeup						3339.73	2053.98	3339.73	2053.98	3270.67	2014.28
17-4d : de EDG Xfer pump						3318.41	2037.71	3318.41	2037.71	3249.35	1998.01
4-7d :WCT fans 5-8 de						3221.69	1965.80	2919.87	1824.67	3249.35	1998.01