REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL:50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
AUTH.NAME AUTHOR AFFILIATION
UHRIG,R.E. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
EISENHUT,D.G. Division of Licensing

SUBJECT: Submits addl info supporting 830216 request for amend to License DPR-67 revising surveillance requirements of 125-volt dc batteries in conjunction w/sys mods,in response to NRC request.Unit 1 dc sys modified identically as Unit 2.

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FLORIDA POWER & LIGHT COMPANY

June 30, 1983
L-83-376

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit 1
Docket No. 50-335
D. C. Distribution

Florida Power & Light Company letter L-83-81, dated February 16, 1983, requested a license amendment to revise the surveillance requirements of the 125 volt DC batteries in conjunction with modifications to the system. During NRC's review, additional information was requested.

The purpose of this letter is to verify that the St. Lucie Unit 1 safety related D.C. System has been modified to be functionally identical to the St. Lucie Unit 2 system, as described in the St. Lucie Unit 2 FSAR, Section 8.3.2. Also, attached are the Battery Load Group tables as requested.

The St. Lucie Unit 1 FSAR will be updated as required per 10 CFR 50.71(e) to include this change.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/RJS/cab

Attachments

A001
1/1

BATTERY LOAD GROUP A-DC LOADS UTILIZED

FOR BATTERY 1 MINUTE DESIGN LIMITING CASE

Item	Load Description Control Power For:	Current (Amps.) 1 Minute
1)	480V Swgr. 1A-1, 1A-2	52.5
2)	4.16KV Swgr. 1A-2, 1A-3	70.7
3)	6.9KV Swgr. 1A-1	12.5
4)	½ load static inverter MA	60.0
5)	½ load static inverter MC	60.0
6)	RTGB 103, 104, 106	10.0
7)	Auxiliary Transformer 1A	1.0
8)	Start-up transformer 1A	1.0
9)	Main transformer 1A	1.0
10)	DC Ltg. PNL. LP 127	10.0
11)	DC PNL PP 118	35.0
12)	Isol. PNL 1A	1.0
13)	Crac. PNL	5.0
14)	D.G. 1A (Excitation)	70.0
15)	Diesel Generator 1A	132.0
16)	D.G. 1A Control Panel	6.0
17)	Excitation Swgr. (Main)	9.0
18)	CCW Surge Tank	5.0
19)	Auxiliary Spray Valve 1SE-02-03	5.0
20)	Reactor trip Swgr. A	18.0
21)	QSPDS 6KVA RG 1.97 4KVA	*88.0
22)	Additional Valves - PORV, Ac. Dump Vlvs.	20.0
		672.7 Total Bus A**

*Actual present load is less due to a smaller inverter (7.5KVA)

**Assumes both busses A & B have the same duty cycle.

BATTERY LOAD GROUP AB-DC LOADS UTILIZED

FOR BATTERY 1 MINUTE DESIGN LIMITING CASE

Item	Load Description		Current Amps. 1 Minute	
1)	Auxiliary Feedwater	MV-09-11	2.66	
		MV-08-12	2.3	
		MV-09-12	2.66	
		MV-08-3	18.0	
		MV-08-13	2.3	
2)	Power Panel 138		8.0	
3)	RTGB 101-102, 105		5.8	
4)	480V & 4.16KV Swgr.		12.7	
5)	Auxiliary FW Turbine Control		4.0	
			58.42	Total bus AB
			672.7	Total bus 1A
			731.12	Total AB & 1A

BATTERY LOAD GROUP B-DC LOADS UTILIZED

FOR BATTERY 1 MINUTE DESIGN CA

Item	Load Description	Current (Amps.) 1 Minute
	Control Power For:	
1)	480V Swgr. 1B-1, 1B-2	52.5
2)	4.16KV Swgr. 1B-2, 1B-3	70.7
3)	6.9KV Swgr. 1B-1	12.5
4)	½ load static inverter MB	60.0
5)	½ load static inverter MD	60.0
6)	RTGB 103, 104, 105, 106	10.0
7)	Auxiliary Transformer 1B	1.0
8)	Start-up transformer 1B	1.0
9)	Main transformer 1B	1.0
10)	DC Ltg. PNL. LP 128	10.0
11)	DC PNL PP 119	35.0
12)	Isol. PNL 1B	1.0
13)	Crac. PNL	5.0
14)	D.G. 1B (Excitation)	70.0
15)	Diesel Generator 1B	132.0
16)	D.G. 1B Control Panel	6.0
17)	Excitation Swgr. (Main)	9.0
18)	CCW Surge Tank	5.0
19)	Auxiliary Spray Valve ISE-02-04	5.0
20)	Reactor Trip Swgr. B	18.0
21)	QSPDS 6KVA RG 1.97 4KVA	*88.0
22)	Additional Valves - PORV, At. Dump Valves, Panels	20.0
		672.7 Total Bus B**

*Actual present load is less due to a smaller inverter (7.5KVA)

** Assumes both busses A & B have the same duty cycle.