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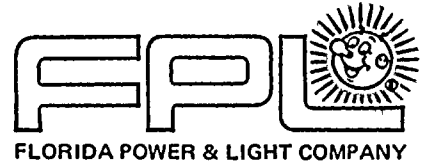
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 50-250 Turkey Point Plant, Unit 3, Florida Power and Light Co. 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co. 05000251
 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
 AUTH. NAME: AUTHOR AFFILIATION
 WILLIAMS, J.W. Florida Power & Light Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Forwards info supplementing 841004 & 1101 ltrns providing
 addl info re SPDS implementation plan & parameter selection
 repts per 840815 & 0914 requests.

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 OL: 07/19/72
 05000251
 OL: 04/14/73
 05000335
 OL: 02/01/76
 05000389
 OL: 04/06/83

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	ELD/HDS4	1	0	ELD/HDS2		1	0
	NRR/DE/MTEB	1	1	NRR/DL DIR		1	1
	NRR/DL/ORAB	1	0	NRR/DL/TSRG		1	1
	NRR/DSI/METB	1	1	NRR/DSI/RAB		1	1
	REG. FILE 04	1	1	RGN2		1	1
EXTERNAL:	LPDR 03	2	2	NRC PDR 02		1	1
	NSIC 05	1	1				



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L-85-19

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: Turkey Point Units 3 & 4
Docket Nos. 50-250 & 50-251
St. Lucie Units 1 & 2
Docket Nos. 50-335 & 50-389
SPDS Implementation Plan and
Parameter Selection Report

The attached information supplements that provided in FPL letters L-84-276 dated October 4, 1984 for the Turkey Point Plant and L-84-285 dated November 1, 1984 for the St. Lucie Plant which were submitted in response to NRC requests for additional information dated August 15, 1984 and September 14, 1984 respectively.

Should you have any questions regarding this information, please call us.

Yours very truly,

A handwritten signature in cursive script, appearing to read "J. W. Williams, Jr.", is written over a horizontal line.

J. W. Williams, Jr.
Group Vice President
Nuclear Energy

JWW/TCG/cab

Attachment

cc: J. P. O'Reilly, Region II
H. F. Reis, Esquire

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ATTACHMENT

RESPONSE TO NRC QUESTIONS

During review of the Safety Parameter Display System (SPDS) Implementation Plan and Parameter Selection Report for both St. Lucie and Turkey Point Plants, the NRC reviewer raised several questions on the choice of maximum credible fault applied to the isolators for the SPDS. In a telephone conversation between FPL and NRC on November 15, 1984, FPL agreed to test the isolators at 120 VAC in the transverse mode at a current of 20 amperes.

As shown by Figure 1, 120 VAC was applied in the transverse mode across the non IE outputs of the Model 156, 980 and 981 isolator modules. At the same time, an oscilloscope was used to monitor the class IE inputs of the isolator for any transients caused by the fault applied and to observe the steady state condition of the IE input side of the isolators during the fault. The fault was applied to each of the modules for a minimum of 20 seconds to ensure adequate time for any failure to propagate and to allow sufficient time to observe the steady state condition of the IE inputs. The test results are given below:

MODEL 156

There were three pulses approximately four microseconds in width and with an amplitude of 0.3 Volts within the first 35 μ s of applying the fault. No other perturbations were observed.

MODEL 980

The transient condition was a single pulse of 12 μ s duration and 0.2 Vpk.-pk. No other perturbations were observed.

MODEL 981

A 1.6 Vpk-pk, 8 μ s. pulse occurred at the application of the 120 Vac then a 0.3 Vpk-pk 6 μ s pulse occurred 100 μ s later and finally a 0.1 Vpk-pk 4 μ s pulse occurred 20 μ s later. No other perturbations were observed.

CONCLUSIONS

FPL has reviewed the results of the test and determined that no components on the IE input side of the isolators would be damaged or stressed should a fault ever occur during plant operation. The integrity of the isolation boundary has been maintained.

The fault voltage observed on the IE side was small compared to the normal signal voltage for an instrument loop (Typically 24 volts) and was of a short duration such that no effect would be expected. After the initial transient condition, no effect was observed on the IE side. FPL concludes that the integrity of the isolation boundary would be maintained should a maximum credible fault occur during system operation.

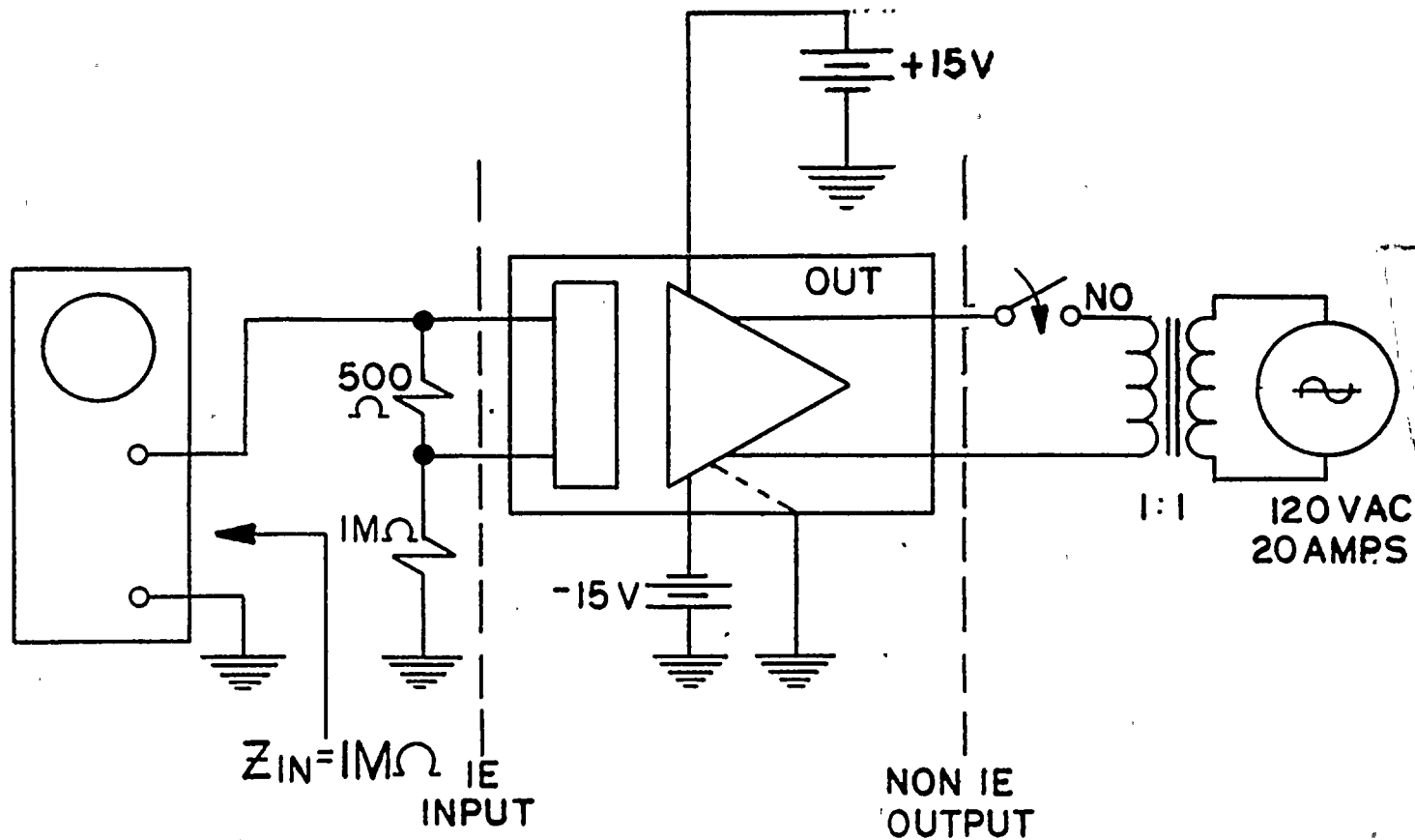


FIGURE 1

TEST CONFIGURATION FOR MODEL 156,980 AND 981
ISOLATORS DURING DBE TESTING

APPROVED:

FORM 1343-GE REV. 5/72

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