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ACCESSION NBR: 8401240088 DOC. DATE: 84/01/17 NOTARIZED: NO DOCKET #
 FACIL: 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: Advises that diesel generators do not undergo type of fast cold starts discussed in Generic Ltr 83-41 because of prelubrication of turbocharger bearings & brief idle period prior to loading. Dec 1982 - Nov 1983 quick starts listed.

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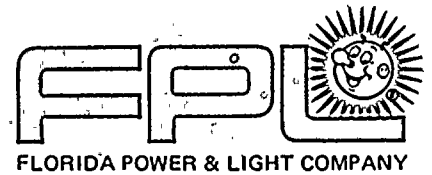
REGISTRATION AND LICENSING DIVISION
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SUBJECT: ADVISES THAT THESE OPERATORS DO NOT UNDERGO TYPE OF TEST
 COULD STARTS DISCUSSED IN GENERAL LTR 83-01 BECAUSE OF
 PRESENTATION OF TURBOCHARGER BEARING & PISTON RING
 PRIOR TO LOADING-DEC 1982 - NOV 1982 QUICK STARTS LISTED.

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January 17, 1984
L-84-2

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 Units 1 and 2
Docket Nos. 50-335, 50-389
Fast Cold Starts of Diesel Generators (Generic Letter 83-41)

The diesel generators at St. Lucie Units 1 and 2 do not undergo the type of fast cold starts discussed in the generic letter because of our (prelubrication of turbocharger bearings and brief idle period prior to loading). We have, however, determined the number of quick starts for the generators in the December 1, 1982 to December 1, 1983 time period.

Diesel Generator	Surveillance	Pre-Operability Check/Maintenance	Demands
1A	23	32*	2
1B	16	22*	0
2A	29	64**	1
2B	35	54**	2

* includes pre-operability testing prior to modifications

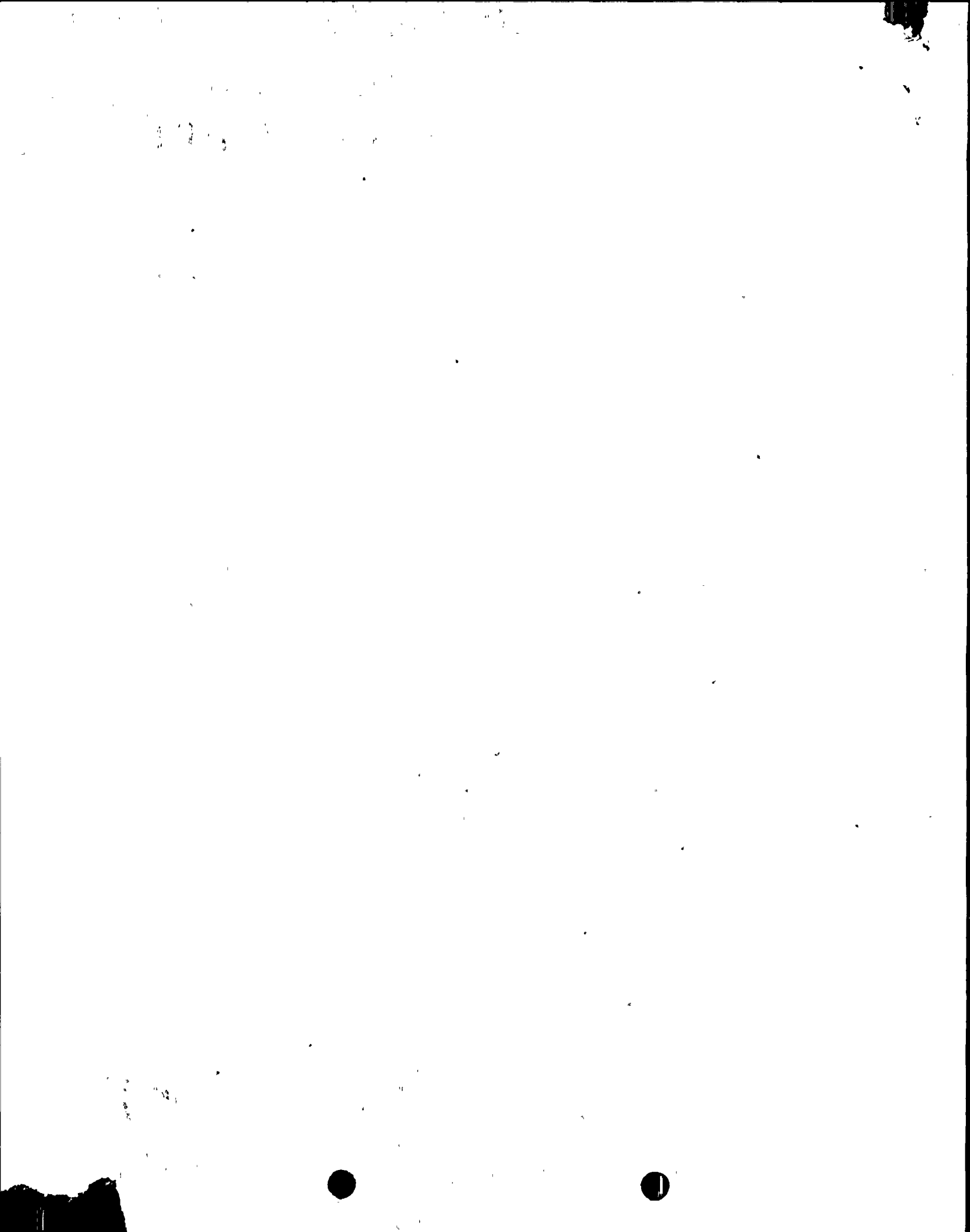
** includes pre-operational startup testing

We have also conducted a brief assessment of the effects of frequent fast cold starts on diesel generator reliability.

In the past we have had problems with turbocharger failures. Therefore, we have performed several modifications on the St. Lucie generators to improve reliability. These modifications include installation of high capacity turbochargers, modifications to the soakback lube oil system, and implementation of an idle start feature. Even with the above modifications installed, fast starts place unnecessary stress on the engines.

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Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut
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In general it is our opinion that we should fast start our diesel generators only for surveillance testing and even then they should be prelubricated. Idle starts should be used for maintenance starts and just prior to surveillance starts. This will provide for the greatest reliability and availability of the diesel generators.

Should you or your staff have any questions on this information, please contact us.

Very truly yours,



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

JWW/PLP/js

Attachment

cc: Mr. James P. O'Reilly, Region II
Harold F. Reis, Esquire
PNS-LI-84-009

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