



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 14, 1998

Mr. Thomas F. Plunkett
President - Nuclear Division
Florida Power and Light Company
P.O. Box 14000
Juno Beach, Florida 33408-0420

SUBJECT: REQUEST FOR INFORMATION REGARDING THE IMPACT OF A COMMERCIAL
AIRPORT AT THE HOMESTEAD AIR FORCE BASE SITE ON SAFETY AT TURKEY
POINT UNITS 3 AND 4 (TAC NOS. MA0848 AND MA0849)

Dear Mr. Plunkett:

It has come to our attention (see the enclosed letter from Friends of the Everglades) that the Homestead Air Force Base Site, which is located approximately 5 miles from your Turkey Point facility, is being considered for use as a commercial airport. It appears that the original design basis for Turkey Point did not consider a commercial airport in close proximity to Turkey Point Units 3 and 4.

In 10 CFR 100.10, the Commission specifies factors to be considered when evaluating sites for nuclear reactor facilities. It states that the reactors are expected to have an extremely low probability for accidents that could result in the release of significant quantities of radioactive fission products, and that, should an accident occur, the reactor facility should ensure a low risk of public exposure. The staff interpretation of the regulation is described in NUREG-0800, U.S. NRC [Nuclear Regulatory Commission] Standard Review Plan (SRP) 2.2.3. In the case of aircraft hazards, the staff interpretation is that the frequency of an aircraft accident resulting in radiological consequences greater than 10 CFR Part 100 exposure guidelines should be less than about 1E-07 per year. SRP 3.5.1.6 outlines an approach acceptable to the NRC staff for addressing aircraft hazards. According to this approach, should the estimate of the frequency of an aircraft crashing into the site not be acceptably low, it must be shown that the relevant design basis acceptance criteria, as well as General Design Criteria 3 and 4 (10 CFR Part 50, Appendix A), are satisfied for a representative aircraft crash at the site. That is, if the estimated probability of an aircraft crashing into the site is not low enough, it must be shown that the plant can withstand design basis aircraft impacts and associated fires without loss of safe shutdown capability, and without causing a release of radioactivity which would exceed 10 CFR Part 100 dose guidelines.

The modification of the Homestead Air Force Base Site to a commercial airport has the potential to increase aircraft hazards well above the risks that are currently projected and could have a significant impact on the offsite emergency planning. Hence, you are requested to assess the impact of the projected changes and update the Turkey Point Units 3 and 4 Final Safety Analysis Report and other related documents if such projections significantly exceed that described in the present study to reflect the potential impact of this external hazard. Also, a major question raised by the enclosed letter is, assuming Dade County is given a permit to develop a commercial airport at the Homestead Air Force Base site, "What will be the impact on safety at the Turkey Point Plant?" Or more specifically, "How will the change in status of the Homestead site affect

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aircraft hazards at the plant?" Also, "What, if anything, would need to be done to minimize an increase in risk that may be associated with the change in aircraft traffic brought about by the proposed commercial airport?"

Please provide your response to this request within 60 days following your receipt of this letter. If you have any questions regarding this matter, please contact me at (301) 415-1496.

Sincerely,

/s/

Kahtan N. Jabbour, Senior Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-250
and 50-251

Enclosure: As stated

cc w/encl.: See next page

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Based on a discussion w/SNewberry 4/9/98

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Mr. T. F. Plunkett

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Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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and 50-251

Enclosure: As stated

cc w/encl.: See next page

Mr. T. F. Plunkett
Florida Power and Light Company

TURKEY POINT PLANT

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