REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
AUTH. NAME AUTHOR AFFILIATION
WOODY, C. O. Florida Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
MCDONALD, D. G. PWR Project Directorate 2

SUBJECT: Advises that util will equip temporary filtration sys w/ electric heater for purpose of humidity control to provide addl assurance that sys will perform at required levels of efficiency, per NUREG-0737, Item III. D. 3. 4.

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FLORIDA POWER & LIGHT COMPANY

NOVEMBER 14 1986

L-86-464

Office of Nuclear Reactor Regulation
Attention: Mr. D. G. McDonald, Project Manager
PWR Project Directorate #2
Division of PWR Licensing - A
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. McDonald:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Proposed License Amendment
Control Room Ventilation

By letter dated August 25, 1986 (L-86-332) Florida Power & Light Company (FPL) requested a one-time Technical Specification change to support implementation of modifications required to resolve NUREG-0737, Item III.D.3.4 "Control Room Habitability." Justification for the Technical Specification change was supported by a No Significant Hazards Evaluation (NSHE) which took credit, in part, for the installation and use of a temporary filtration system to service the control room during the modification period.

Because of questions raised during an engineering review of vendor information regarding capability of the temporary filtration sytem to remove iodine above 70% humidity, FPL intends to equip the system with an electric heater for the purpose of humidity control to provide additional assurance that the temporary filtration system as discussed in the NSHE will perform at the required levels of efficiency under Turkey Point site environmental conditions. The electric heater, which will be installed at the fresh air intake to the temporary filter unit (See the attached figure), will ensure that the iodine removal efficiency of the downstream charcoal adsorber will be maintained at acceptable levels during periods of high humidity. The electric heater will be designed for automatic operation with a relative humidity sensing device and control circuit set to energize the heater when the air relative humidity exceeds 70 percent.

Under normal conditions, power to the electric heater will be supplied from an existing non-vital plant bus. However, to ensure operability of the heater under loss of offsite power conditions, a dedicated, non-safety grade portable diesel generator will be available to serve as a backup source of power which will start automatically on low voltage to the bus feeding the heater. This backup diesel generator will be capable of continuous operation for up to 40 hours without refueling. Under accident conditions, operation of the backup diesel generator and the temporary system heater for 40 hours is sufficient to ensure acceptable performance of the charcoal adsorber to maintain the control room operators exposure dose to within GDC-19 limits.

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1/1

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The addition of this electric heater and its associated diesel generator power supply will enhance the performance of the charcoal adsorber during periods of high humidity. Operability of these components and their associated actuation and control circuitry will be demonstrated by appropriate functional testing prior to use. Therefore, this design enhancement will not alter the conclusions of the NSHE provided in our August 25, 1986 submittal.

If you have any questions, please call us.

Very truly yours,

J. O. Woody
Group Vice President
Nuclear Energy

COW/TCG/gp

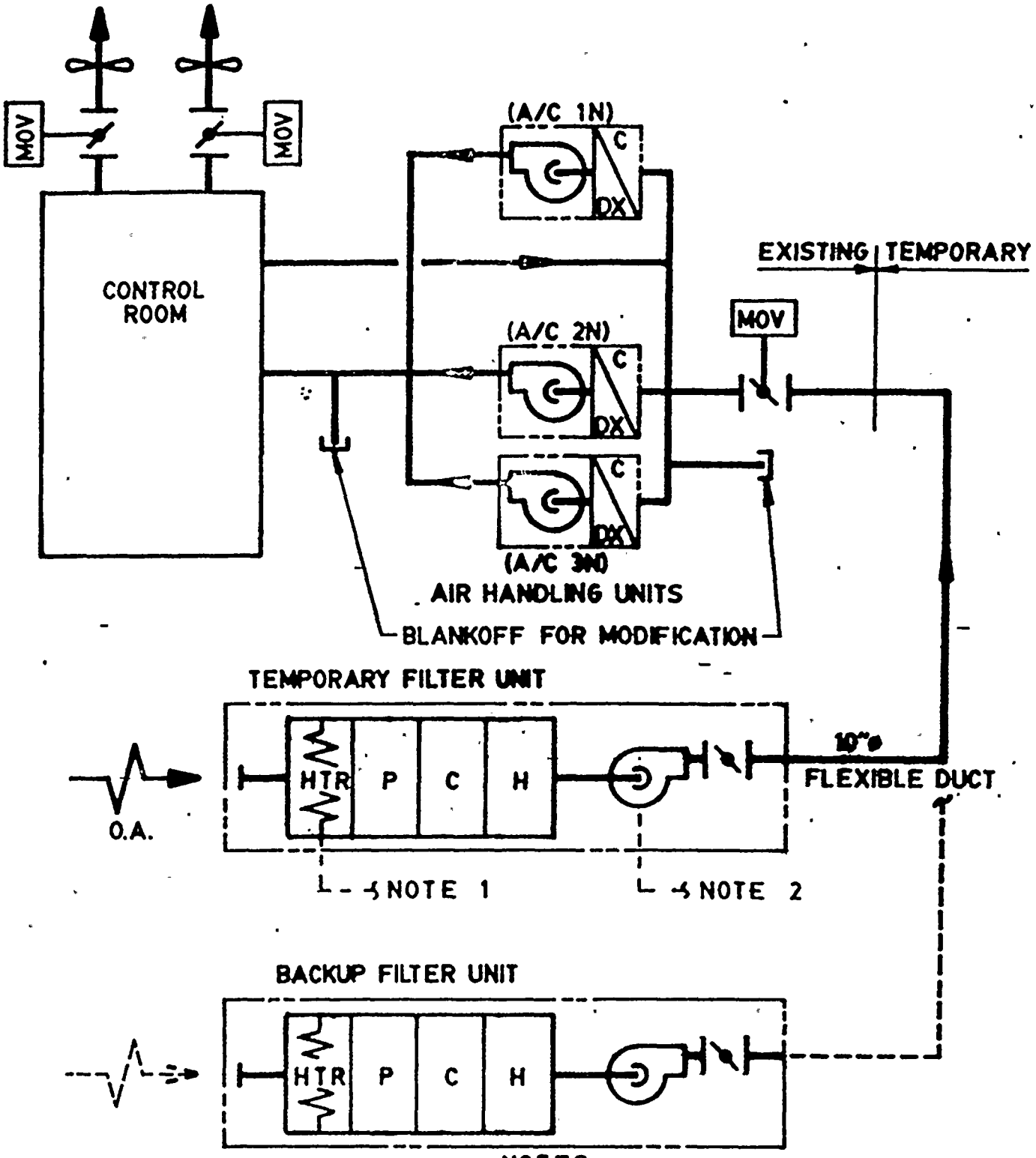
Attachment

cc: Dr. J. Nelson Grace, Regional Administrator, Region II

Mr. Alan Schubert, Manager
Office of Radiation Control
Department of Health & Rehabilitative Services
1317 Winewood Blvd.
Tallahassee, FL 32301

Harold F. Reis, Esquire, Newman and Holtzinger

TEMPORARY CONTROL ROOM HVAC SYSTEM



LEGEND

MOV -MOTOR OPERATED VALVE
O.A. -OUTSIDE AIR
P -PRE-FILTER
H -HEPA FILTER
C -CHARCOAL ADSORBER
HTR-ELECTRIC HEATER

NOTES

1. NON-VITAL POWER FEED BACKED-UP BY PORTABLE DIESEL GENERATOR.
2. VITAL POWER FEED.