

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8609110252 DOC. DATE: 86/09/02 NOTARIZED: NO DOCKET #
 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
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 RECIP. NAME RECIPIENT AFFILIATION
 MCDONALD, D. G. PWR Project Directorate 2

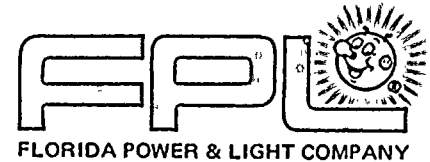
SUBJECT: Submits update on SPDS, per 840214 commitment to implement
 sys by end of current refueling outage. SPDS hardware
 installed & software runs on safety assessment sys (SAS)
 central computer. SAS implementation program: schedule encl..

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L-86-264

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
 Supplement 1 to NUREG 0737
Update on the Safety Parameter Display System

In our letter L-84-33, dated February 14, 1984 for the Safety Parameter Display System (SPDS), Turkey Point Unit 4 committed to have the SPDS implemented by the end of the current refueling outage. SPDS hardware is installed and the software runs on the Safety Assessment System (SAS) central computer. However, the SAS computers are experiencing low availability due to system startup and debugging.

SAS is composed of the following major subsystems plus input from QSPDS. Their status is:

- QSPDS: (Core Exit Thermocouples, Subcooling Margin and Reactor Vessel Level) a totally qualified redundant system with redundant control room displays has been operational all cycle. QSPDS utilizes SAS to display its parameters in the EOF and TSC. This data link is operational;
- SPDS: (Parameters necessary to monitor the course of an accident) installed and software debugged. SPDS utilizes the SAS Display Monitors in the Control Room, EOF and TSC which are installed, tested and available for use.
- Historian: (The 14 hour revolving data base) has been in operation since the end of Unit 3 cycle 10 refueling (July 1985). This data base stores Unit 3, Unit 4 and meterological data for 14 hours;
- Mimics: (Dynamic system drawings) this sytem is still being installed. Limit switches for valve positions, transmitters and cable runs are approximately 80% complete.

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Mr. D. G. McDonald, Project Manager
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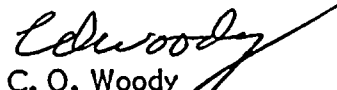
To date it is estimated that 95% of all SAS hardware has been installed and that 780 of 1360 inputs for SAS have been landed.

Note: Unit 3 has about 25% of its inputs terminated
Unit 4 has about 88% of its inputs terminated

The software to operate and generate the displays and calculations is the last major milestone to complete. In order to debug and startup the remaining software, periodic interruptions in the SPDS availability on Unit 4 will be experienced. As the software work progresses these interruptions will be less frequent, increasing the availability of the SPDS on Unit 4. The SAS Implementation Program Plan is attached and provides the schedule for outstanding SAS work.

This information is being provided as a status report on the Safety Assessment System. If you have any question, please contact us.

Very truly yours,


C. O. Woody
Group Vice President
Nuclear Energy

COW/RG/gp

Attachment

SAS IMPLEMENTATION PROGRAM

SCHEDULE

| <u>Item</u> | <u>Current Schedule</u> |
|--------------------------------------------------------|---------------------------------------------------------------------------|
| 1) Hardware | 95% Computer Components installed & 57% of SAS inputs terminated |
| 2) System Start-Up | |
| - Debugging | Present to Late '87 |
| - Rewrite Software (as required) | Continuous |
| - Add Software | Continuous |
| 3) Dedicated Staff | |
| - Additional Programers | - 1 programer position filled 2 positions open |
| - Additional Maintenance | - 2 positions filled |
| 4) Training | |
| - SAS Staff | Early '87 |
| - Operators (Control Room) | Continuous |
| 5) Verification & Validation Testing (Total System) | End of Outage Unit 4 Cycle 12 |
| 6) Resolution of Discrepancies | Mid '87 - Mid '88 |
| 7) Total System Operational | Mid '88 |