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Mr. Richard P. Denise, Director
Division of Resident Reactor Projects
and Engineering Programs
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

SUBJECT: Arkansas Nuclear One - Units 1 & 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6
ANO Security System Upgrade

Gentlemen:

The purpose of this letter is to provide you with an update of the status of AP&L's efforts to implement the final phase of the upgrade to the ANO Security System. The original schedule for this effort was submitted in AP&L's letter dated February 19, 1983, (ØCANØ283Ø9) to Mr. W. C. Seidle.

Since the last status report, provided in AP&L's letter dated June 29, 1983, (ØCANØ68318), significant progress has been made in efforts related to the planned hardware modifications. The two required computer systems have been procured and received on site. The development of Design Change Packages to install the computers and related hardware are now approximately 75% complete. The performance of the present system is continuing to show marked improvements due to the various interim modifications which have been made.

Although hardware related efforts have proceeded according to schedule, we have encountered significant delays in our efforts related to system software developments. It now appears that software development will be the controlling item in the schedule for completion of the Security System upgrade. The delays have resulted from the lack of sufficient manpower to support the Security System upgrade concurrently with other software

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development efforts to support NRC required plant modifications (e.g. the Safety Parameter Display System and offsite dose assessment software) and refueling outage support. The system functional specification, originally scheduled for completion in mid 1983, is now approximately 80% complete. Work on the detailed software specifications and coding has not yet begun. Initial efforts of these tasks were delayed due to an earlier than anticipated ANO-2 refueling outage (this possibility was discussed in our June 29, 1983, letter) which was also of longer duration than expected. In addition, the availability of software development personnel has been heavily impacted by software development for the Safety Parameter Display System (SPDS) and offsite dose assessment system required by NUREG 0737. Work on the SPDS computer system extended throughout 1983 and will continue through the first half of 1984.

Because this additional work was not accounted for in the development of our original schedule, we have recently conducted a reevaluation of the software development schedule and resource requirements for the completion of the Security System upgrade. It is estimated that an additional 60 man-months of effort will be required to complete the software development for the Security System upgrade. Although, to the extent practicable, all available software development personnel not committed to support of NRC required items and refueling outages will be committed to the Security System, the Security System software development schedule now indicates system completion will not be possible before the fall of 1986. We are presently evaluating possible methods of improving this schedule, including contractor support. However, as we have indicated in the past, due to our previous experience in this area we feel it is best to perform these tasks with AP&L personnel in order to retain the system expertise and to assure a quality product.

Although this revised schedule represents a significant delay from the originally scheduled completion, we feel that the numerous interim modifications and resulting improvements in the performance of the existing Security System will allow us to accommodate this revised schedule without significant inconvenience. As discussed with your staff on several occasions the interim modifications to the existing Security System have resulted in dramatic improvements in system performance. Computer System crashes of the CAS/SAS system were reduced from sixty-four in 1982 to seven in 1983. Only one CAS/SAS crash has been experienced thus far in 1984. Other modifications have increased the badge handling capability of the system from 1500 to 4000 and significantly reduced the number of spurious alarms.

AP&L is continuing in efforts to complete this final phase of the Security System and will continue to periodically apprise you of significant developments in our efforts.

Very truly yours,

John R. Marshall
Manager, Licensing

JRM/DH/ac