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50-348/364-CIVP  
2/20/92

APCo Exhibit 30

J. E. SUNDERGILL  
Engineering Supervisor

DOCKETED  
USNRC

'92 MAR 13 P4:19

## WORK HISTORY

### ENGINEERING SUPERVISOR/GROUP LEADER - Bechtel (12 Years)

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

Mr. Sundergill is presently assigned to the Farley Nuclear Plant project as the Electrical and Control Systems Group Supervisor. This position entails the technical/managerial responsibilities for the work effort of the group, including technical approval of the effort, scheduling and budgeting the work as well as coordinating with the client, interacting with the Nuclear Regulatory Commission and reviewing many different vendors. Presently, there are 35 electrical and control systems personnel under his direct supervision.

Mr. Sundergill was initially assigned to the Farley Nuclear Plant Project in the position of Equipment Qualification Group Supervisor. This group subsequently evolved into the multi-discipline Special Projects Group with responsibilities for heat transfer and flow balance design as well as EQ. This position consisted of the same technical/managerial responsibilities as that of the Electrical and Control Systems Group Supervisor.

During the Farley assignment, Mr. Sundergill performed as the Engineering Lead for a proposal team for a multi-site security project. In this position, he had Architectural, Civil, Electrical/Control Systems and Mechanical Groups reporting directly to him. He was responsible for the coordination of all engineering efforts with Technical Publications, Technical Services, Legal, Engineering Management, and Construction.

Prior to the Farley assignment, Mr. Sundergill was assigned as Group Supervisor for TVA's Browns Ferry Nuclear Power Plant. In this position, he led a multi-discipline group producing environmental qualification packages and fulfilling many of the same responsibilities as on the Farley assignment. In addition to the technical and managerial aspects of this assignment, he was responsible for the original scoping of the job, supervising the progressing work, and closing down the completed task.

In an earlier assignment, Mr. Sundergill served as the Electrical Systems Group Leader for the Grand Gulf Nuclear Power Station. His primary responsibilities included reviewing of electrical licensing responses, overseeing the electrical systems design, and acting as the project EQ Coordinator for both seismic and environmental qualification. Near the end of the Grand Gulf Assignment, Mr. Sundergill initially was given the concurrent responsibility and ultimately the separate responsibility of the Electrical Group Supervisor for the Susquehanna Steam Electric Station.

Before the Grand Gulf assignment, Mr. Sundergill was Electrical Group Supervisor for the Turkey Point Nuclear Power Plant project. This task was primarily concerned with operating services and conceptual schemes for steam generator removal.

Exhibit No. 50-348364-Civil Official Exh. No. 30  
 In the matter of Alabama Power Company  
 Staff IDENTIFIED 3:40 p.m. 2/20/92  
 Applicant ✓ RECEIVED 3:41 p.m. 2/20/92  
 Intervenor REJECTED  
 Cont'g QM DATE 2/20/92  
 Contractor WITNESS  
 Other Reporter L. Cole

## JAMES E. SUNDERGILL (Continued)

### ELECTRICAL DESIGN ENGINEER - Bechtel (9 years)

In his initial assignments with Bechtel, Mr. Sundergill was responsible for the design of various systems for the Calvert Cliffs Nuclear Power Plant and for the SNUPPS project. He also served on the electrical staff as a Fire Protection Specialist and is still consulted in that area.

### MISCELLANEOUS ASSIGNMENTS

Throughout his Bechtel career, Mr. Sundergill has served on a variety of specialized assignments. He has served on the Gaithersburg Power Division and Thermal Power Organization task forces on fire protection and on a task force helping to produce an Integrated Living Schedule for Florida Power and Light's Turkey Point Plant. More recently, he was the only Bechtel member of a task force appointed by Alabama Power Company to advise them on programmatic EQ issues. Furthermore, Mr. Sundergill served on an ad-hoc task force reviewing commercial dedication of components for use in nuclear power plants.

In addition to serving on these task forces, Mr. Sundergill has also acted as an Instructor at various times. He has taught fire protection theory and design, electric heat tracing and has had overall responsibility for courses on the National Electric Code in addition to teaching key classes of that course.

### EDUCATION

BS, Electrical Engineering, University of Maryland  
MS, Management, Frostburg State College

### REGISTRATION/CERTIFICATION

Registered Professional Engineer (electrical) in Maryland, Pennsylvania, and Alabama  
Registered Fire Protection Engineer in California

### PROFESSIONAL MEMBERSHIPS

Society of Fire Protection Engineers (Member Grade)

JAMES E. SUNDERGILL (Continued)

PUBLICATIONS

"Worst-case Prediction of Normal Operating Containment Temperatures for Environmentally Qualified Equipment" February 1990  
(Co-authored with J. Krasnopoler)

"A Proposed Standard Format for the Design of Fire Protection Systems for Nuclear Power Plants" June 1977  
(Co-authored with I. M. Poss)

PROFESSIONAL SEMINARS

EPRI EQ Seminar, March 8-10, 1983  
Drexel/IEEE EQ Seminar, September 22-24, 1980

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