KANSAS GAS AND ELECTRIC COMPANY

GLENN L KOESTER
VICE PRESIDENT - NUCLEAR

June 21, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

KMLNRC 84-094
Re: Docket No. 50-482
Ref: 1) Letter dated 5/25/84 from DGEisenhut, NRC, to GLKoester, KGE
2) Letter KMLNRC 84-030 dated 3/12/84 from GLKoester, KGE, to HRDenton, NRC
Subj: Operating Shift Staffing

Dear Mr. Denton:

In response to the Reference 1) letter, KG&E has committed to have shift consultants augment the operating shifts for approximately the first year of operation. The experience base of the shift consultants sent to you in the Reference 2) letter is still correct.

Attached is further information about the shift consultant program that was specified in enclosure 2 of the Reference 1) letter, with the exception of items 4 and 5. The written and oral examinations are scheduled to be given in July of this year; consequently, this information will be provided to you following completion of the examinations.

Yours very truly,

Glenn L Koester

GLK:bb
Attach
xc: HThompson, w/a
PO'Connor, w/a
JCollins, w/a
HBundy, w/a

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WOLF CREEK GENERATING STATION RESPONSES
TO INFORMATION REQUIRED REGARDING SHIFT ADVISORS

1. Resumes for seven WCGS shift consultants are attached that highlight their previous operating experience.

2. A copy of the WCGS procedure, ADM 02-012, is included that describes the shift consultant's duties and responsibilities.

3. A description and schedule of the WCGS shift consultant training program is attached.

4. Copies of the written examinations that will be given to the shift consultants during their training course are not available at this time.

5. Oral examinations have not yet been given to the shift consultants.

6. The Superintendent of Operations or Operations Coordinator - Operations will review the role of the shift consultant with operators on staff to assure awareness. In addition, during the last several years shift consultants have been functioning in the control room as shift supervisors or consultants to the shift supervisor.

7. A NRC equivalent physical will be administered to the shift consultants later this year. The results of the physicals will be reviewed by the Operations staff and a determination will be made with regard to their suitability for their intended function as shift consultant.

8. A description of the WCGS shift consultant evaluation program is attached.

WOLF CREEK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Randall B. Cade

Experience Highlights

Licensed SRO - PWR, Combustion Engineering #SOP-4598 effective 7/83
Licensed RO - PWR, Combustion Engineering #OP-5932 effective 4/82
Over 13 years experience in nuclear power.

Operational and training experience.

US Navy - RO
AS degree

Professional Experience

5/84 to present	Senior Service Engineer for Quadrex Corporation. Presently assigned to WCGS Operations department working special projects for the Superintendent of Operations. Duties include writing Administrative Procedures, developing operating guidelines, conducting shift performance evaluations, and developing standing and special orders.
10/78 to 5/84	Arkansas Power and Light Company. Licensed SRO at Arkansas Nuclear One assigned to operating shift. Supervised licensed and non-licensed operators in daily operations of the nuclear plant. Participated in three refueling outages and served as fuel handling supervisor regulating all phases of refueling evolutions. Supervised/conducted equipment checkouts and surveillance tests to ensure complicance with applicable quality assurance procedures and technical specifications. Conducted system and equipment training for licensed and non-licensed operators assigned to shift.
1971 - 1977	US Navy. Qualified as Reactor Operator and participated in daily operation of reactor plant and primary systems.

Education

Senior Licensed Operator training at Arkansas Nuclear One - 1983
Licensed Operator training at Arkansas Nuclear One - 1922
AS degree, pre-engineering, Iowa Western Community College - 1979
Navy Nuclear Power Schools
Navy Electronics School

WOLF CREEK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Scott P. Atwater

Experience Highlights

Licensed SRO - PWR, Combustion Engineering SOP#3768 effective 7/80
Licensed RO - PWR, Combustion Engineering effective 3/75

Over 17 years nuclear plant experience.

Significant supervisory experience.

MBA and BS degrees

Professional Experience

1/84 to present — Presently contracted to KG&E's Operations Department, tasked with Pre-op Test procedure review and upgrade to ensure that the Pre-op Test procedures: incorporate currently available operating procedures and checklists; include all design criteria and FSAR design commitments and can be performed in an operationally sound manner.

10/83 to 12/83 — San Onofre Nuclear Generating Station, under contract as Manager of Training Materials Development. Primary task was the development of a Training Materials Management System to log in all source documents, distribute them to the appropriate training department for evaluation of training impact, implement and track all open items, and to document all completed actions. Subordinate duties consisted of: generating a master index of all training materials; validating all training materials as to current usage; evaluating Units 2 & 3 Design Change Packages as to whether or not they should be incorporated into the simulator.

11/82 to 6/83 — San Onofre Nuclear Generating Station, as Equipment Control Supervisor (Unit 3), primary duty consisted of the scheduling and tracking of all Unit 3 maintenance activities to support the Unit startup schedule and to comply with Tech Spec requirements, surveillance intervals, and personnel safety. Subordinate duties included the training of operators in determining plant equipment status, the coordination of the operator/maintenance interface in making equipment safe for work, and the participation in management meetings for

startup testing coordination.

4/82 to 11/82

As Operating Foreman (Unit 3), directed plant evolutions during Pre-Core Hot Functional Testing. This testing included NSSS operations at normal operating temperature and pressure and Balance of plant operations as necessary to support turbine roll to 1800 RPM on Reactor Coolant Pump heat. Supervised Reactor Operators and Plant Equipment Operators and reported to the Watch Engineer.

Subordinate duties consisted of the training of operators in watchstanding techniques, alarm identification-evaluation-and response, use of computer group trends, and efficient use of time on watch.

10/73 to 4/82

Maine Yankee Atomic Power Company, Plant Shift Superintendent/Shift Operating Supervisor 12/79 to 4/82. Supervised performance of all shift evolutions, including emergency condition response. Specific responsibilities were:

- safe and proper removal from service of equipment for maintenance.
- shift adherence to operational license requirements.
- completion of routine surveillances.
- procedure writing and review.
- Control Room Operator and Auxiliary Operator in-plant training.
- performance evaluation of Control Room Operators. Alternate Control Room Operators, and Auxiliary Operators.

Control Room Operator, 2/76 to 12/79. Duties consisted of the direct manipulation of the Main Control Board controls for the primary system, secondary system, reactor protection system, radiation monitoring system, reactivity control systems, and electrical distribution systems. Responsibilities of the Control Room Operator Position were:

- control and coordination of all information flow into and out of the Control Room.
- Alternate Control Room Operator training on the Main Control Board.
- direction of the Auxiliary Operators in routine steady state shift operations. The Control Room Operator reported directly to the Shift Operating Supervisor.

Auxiliary Operator, 10/73 to 2/76.

Note: While at Maine Yankee, participated in six refueling and turbine outages. These outages included:
- Refueling Machine Operation and Fuel Handling.
- Reactor Coolant System drain, fill, and vent operations
- Steam Generator inspections primary and secondary sides.
- Reactor Coolant Pump Seal Cartridge replacements.

1967 to 1973 — US Navy Nuclear Power Program
Mechanical Operator and Engineering Laboratory Technician aboard submarines. Also served as Repair Shift Supervisor aboard a submarine repair ship.

Technical Training:

San Onofre--Systems Training, 5/82 to 6/82.

Maine Yankee--Senior Reactor Operator License Program, 1/80 to 7/80. Original SRO license issued 7/80.

US Navy Engineering Laboratory Technicial School, 8/68 to 11/68.

US Navy Nuclear Power Training 7/67 to 8/68

Formal Education:

New Hampshire College, Brunswick, ME, 9/79 to 3/82. Master of Business Administration curriculum. Graduated 3/82 with a cumulative grade average of 'A'.

University of Maine at Augusta, Augusta, ME, 1/76 to 5/79. Bachelor of Science in Business Management curriculum. Graduated 5/79 with a cumulative grade point average of 3.26.

Classical High School, Springfield, MASS, 9/62 to 5/65. College Preparatory curriculum. Graduated 5/65.

WOLF CREEK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Shannon G. Armstrong

Experience Highlights

Licensed SRO - PWR Westinghouse SOP#4238 effective 3/82
Licensed RO - PWR Westinghouse OP#4939 effective 1/79

15 years experience in nuclear power experience

8 years commercial power experience

AS degree in Chemistry

Professional Experience

1976 to 1982 — Portland General Electric, Trojan Nuclear Plant.
Licensed Senior Reactor Operator serving as an assistant shift supervisor responsible for supervision of control room operators to ensure safe and efficient operation of the plant. Additional responsibilities include routine shift administration such as authorizing maintenance on plant systems and equipment, controlling temporary modifications to plant equipment and verifying compliance with NRC rules and regulations. Previous positions included licensed Control Operator. Duties of this position were operation of the reactor and associated safety and BOP systems as well as training new operators in the control room. Relief shift duties consisted of review and corrections of plant operating procedures and prints.

1970 to 1976 — ORE-IDA FOODS, INC., Burley, Idaho.
Mechanical Maintenance Foreman responsible for supervision of 15 maintenance technicians in a large food processing facility. Duties included personnel management, preventative maintenance planning and scheduling and performance of corrective maintenance.

1963 to 1970 — US Navy
Qualified as Engine Room Supervisor on an FBM submarine. Other duty stations included three years as a staff instructor at the S1W prototype. As prototype instructor supervised 20 students and 5 prototype instructors, served as crew leading machinist responsible for M-Div performance and maintenance activities.

Education

1981	USNRC Senior Operator Training
1977 to 1981	Reactor Operator Requalifications Program
1977	USNRC Reactor Operator Training
1974	Associate Degree, College of Southern Idaho (Emphasis in Chemistry and Biology)
1963 to 1965	USN Nuclear Training
1961	Owatonna HS, Owatonna, Minnesota

WOLF CREEK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Ambrose J. Ochs

Experience Highlights

Licensed SRO - PWR Westinghouse SOP#30120 effective 1/83
Licensed RO - PWR Westinghouse OP#5479 effective 5/81

7 years commercial nuclear power experience

AS degree in Nuclear Power Technology

Professional Experience

10/83 to present	Senior Service Engineer A, Quadrex, on assignment to Wolf Creek Generating Station as a Shift Consultant. Acting as Shift Supervisor from 11/83 to 5/84, supervised all shift evolutions including primary system cold hydro test.
5/81 to 9/83	Senior Reactor Operator and Reactor Operator D.C. Cook Nuclear Power Plant. Both directed and performed operations and control of Units 1 and 2 during refueling startup, physics testing, and power operations to 100% power from control room.
12/77 to 5/81	Auxiliary Equipment Operator, D.C. Cook Nuclear Power Plant. Duties included operating water treatment systems, auxiliary boiler, waste disposal system, and chemical and volume control system components. Also surveillance test procedures. Cognizant over systems per clearance permit system procedure. Responsible for operating primary and secondary plant components including emergency diesel generators.
6/77 to 12/77	Utility Operator, D.C. Cook Nuclear Power Plant. Entry level training for above duties.

Education:	Additional courses taken at Donald C. Cook Plant:
8/81	Successfully completed Westinghouse Mitigating Core Damage Course.
12/80	Successfully completed Combustion Engineering Course in Nuclear Power Plant Operation.

4/80	Successfully completed 2 weeks Reactor Operator Training Program at Ford Nuclear Reactor Phoenix Memorial Laboratory, University of Michigan.
1975 to 1977	Attended Terra Tech Junior College in Fremont, Ohio. Received an Associate Degree in Nuclear Power Technology.
1975	Graduated from St. Joseph's High School in Fremont, Ohio.

WOLF CREK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Walter J. Molpus, Jr.

Experience Highlights

Licensed SRO - PWR, Westinghouse SOP#30010 effective 11/81
Licensed RO - PWR, Westinghouse OP#4868 effective 11/78

9 years experience in nuclear power

Professional Experience

10/83 to present	Employed by Quadrex Corporation as a Shift Consultant to Wolf Creek Generating Station. Duties include procedure development, shift performance evaluation and system test performance. Actually served as Shift Supervisor and directed all shift evolutions including cold hydro test.
1975 to 10/83	Indiana and Michigan Electric Power Company.
1981 to 1983	Unit Supervisor responsible for plant operation as Control Room Supervisor, under the direction of the Shift Supervisor. During this period, operated the plant controls and/or supervised these operations during power operation, shutdowns for refueling, start-ups and physics testing of the plant. Also spent approximately 500 hours stepped up to Assistant Shift Supervisor. These responsibilities include monitoring both units on operations; writing equipment clearances; conducting fire drills; writing job performance reviews and coordinating activities relating to the emergency plan.
1978 - 1981	Reactor Operator. Operated the plant controls as the Control Room Operator during inital fuel loading of Unit #2; refueling of Units 1 and 2; startup and physics testing of power operations for both units to 100% rate of power for a total of approximately 5700 hours, including 2700 hours stepped-up to Unit Supervisor.
1975 to 1978	Auxiliary Equipment Operator. Duties included operating make-up water treatment system; auxiliary boiler; waste disposal system, and associated evaporators;

ice condenser, refrigeration system; ice-making machines; chemical and fire control system components and emergency diesel generator. Performed inspection tours and monitored locally the proper operation of primary and secondary components. Removed from and returned to service plant components under the clearance permit system.

Education

Attended Western Michigan University in the Paper Science Program. Subjects included Organic Chemistry, Advanced Calculus, Quantitative Analysis and Computer Programming, 1974-1975

Attended State College taking such subjects as Chemistry, Calculus and Biology, with Pharmacy as a major, 1973-1974.

Attended Foothill Junior College, Los Altos California. Aircraft Materials and Chemistry were emphasized. Major in Aeronautics, 1971-1973.

WOLF CREEK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Robert J. Jurrus

Experience Highlights

Licensed RO - PWR Westinghouse OP#3794 effective 4/75
13 years of commerical nuclear experience in Westinghouse plants

6 years military nuclear experience

Previous experience as a shift consultant at Sequoyah

Professional Experience

9/81 to present	Wolf Creek Generating Station-Shift Consultant
4/81 to present	Shift supervisor in charge of the operations control tagging authority group. Duties include verification of clearance orders, review and approval, work request review, and coordination of all system power outages.
2//83 to 4/83	Authored and implemented various system operating procedures and checklists and annunciator responses. As a member of the emergency response validation group, a Wolf Creek/Calloway joint effort, assisted Westinghouse in validating the emergency response guidelines on the Union Electric Company's Calloway Station simulator.
9/81 to 1/83	Shift operations advisor serving as shift supervisor on rotating shift during startup and pre-op testing of Wolf Creek.
1976 to 1981	Quadrex Corporation, Campbell, California
3/81 to 9/81	Senior Supervisory Service Engineer assigned to Beaver Valley Power Station. Updated Conduct of Maintenance Manual to include Technical Specification Instrument Calibration Requirements. Acted as Instrument and Control Department Engineer for all daily work activities.
9/80 to 2/81	Updated various operating procedures and all plant and overhead annunciator responses for the Operations

	Department for Salem Generating Station, Public Service Electric and Gas Company, Salem, New Jersey.
2/80 to 8/80	Shift Operations Advisor for the Tennessee Valley Authority (TVA) Sequoyah Power Station to advise shift operations personnel in the operation of the Sequoyah Power Plant from start-up and testing through operation.
7/79 to 1/80	Assigned as Project Leader, Beaver Valley Power Station in charge of all Nuclear Services Corporation personnel on site.
10/78 to 6/79	Senior Engineer responsible for the testing and acceptance of the Korean Electric Company (KECO) Power Plant Simulator, Electronic Associates, Inc., Long Branch, New Jersey.
10/76 to 9/78	Assisted in the development and execution of the Beaver Valley Units Number One and Two Spare Parts Program, Heat Balance Program and Inservice Inspection Program. Authored and assisted in the implementation of plant operating procedures associated with the Inservice Inspection Program.
1971 to 1976	Indiana and Michigan Power Company, D.C. Cook Nuclear Plant, Bridgman, Michigan. Licensed Reactor Operator Initial system lineups and hydrostatic test verifications prior to initial plant startup. Authored and assisted in implementation of plant preoperational operating procedures. As Unit Foreman, responsible for supervision of operations personnel and unit control room. Instrumental in operator training program and participant in Senior Reactor Operator license program.
1965 to 1971	US Navy Nuclear Power Program qualified as Engine Room Supervisor aboard submarines - 1st Class Machinist Mate.
Education	Westinghouse Licensed Operator training - 1975 US Navy Nuclear Training program - 1965

Completed Master Electronics Course with National Technical Schools, Los Angeles, California.

Completed Electronics I and II and Industrial Electronics I courses at Flint Hills Vocational Technical School, Emporia, Kansas.

Completed one year of credit toward an Electrical Engineering degree at Kent State University, East Liverpool, Ohio.

WOLF CREEK GENERATING STATION
SHIFT CONSULTANT PROFESSIONAL EXPERIENCE

Robert W. Rathbone

EXPERIENCE HIGHLIGHTS

Licensed RO - PWR Babcock and Wilcox OP#3947 effective 11/75
Licensed RO - PWR Combustion Engineering OP#4931 effective 1/81
12 years commercial nuclear experience

6 years naval nuclear experience

Previous experience as shift consultant at Sequoyah

Professional Experience

August 1983/Wolf Creek/Shift Consultant - acted as shift supervisor from December-June. Supervised operating crew of 10 people during S/U testing (pre-op and component) flushes and hydros (cold hydro). August-December aided plant surveillance group in layout and writing of initial Tech Spec surveillance procedures.

9/81 to present	Employed by Mechanical Equipment Consultants Inc. as a Senior Consultant assigned to the Operations Department at San Onofre Nuclear Generating Station (1100 MWe., pwr.). Responsible for preparing all operating procedures, and rendering general engineering consultation to the San Onofre operating staff.
4/80 to 9/81	Employed by Westinghouse Nuclear International as a Project Engineer assinged to the Krsko Nuclear Plant (650 MWe., pwr.) in Yugoslavia. As a startup engineer was responsible for system testing, implementation of the tests, review and evaluation of test data and presenting said test data to the Joint Test and Safety Review Committee for system turnover and acceptance. Acted as Shift Supervisor for hot functional testing and Shift Technical Advisor for core load and post core testing.
1/80 to 3/80	Employed by Nuclear Services Corp. (Quadrex) as a Senior Project Engineer A assigned to Consumer's Power, Palisades Plant (800 MWe., pwr.). Responsibilities included review of operating procedures revised by the utility for lessons learned from TMI. Lesson preparation and instruction to operators on procedure revisions and lessons learned from TMI.

Qualified in accordance with ANSI N45.2.6 for above. Assigned to Tennessee Valley Authority's Sequoyah Plant as a Shift Technical Operations Advisor. Responsibility was to interface with the Watch Engineer and Shift Technical Advisor to help on shift personnel who were inexperienced in the operation of a commercial nuclear generating station. This position was a NRC license requirement and was approved by the NRC for this position.

9/74 to 1/80 — Employed by Arkansas Power and Light at the Arkansas Nuclear One generating station. Assistant Plant Operator on the Unit 1 plant at Babcock and Wilcox (850 MWe., pwr.) NRC licensed with the responsibility for safe operation of the plant. Promoted to Plant Operator and transferred to Unit 2, a Combustion Engineering 900 MWe pwr. Responsibilities included the preparation of operating procedures and assisting with preoperational testing. As a NRC licensed reactor operator operated the plant from initial core load, during startup testing and up to 60% power.

6/72 to 9/74 — Employed by Consolidated Edison assigned to the operations department at Indian Point Unit 2 (900 MWe., pwr.). Worked as a Nuclear Plant Operator with responsibility for the operation of primary and secondary auxiliary equipment. Participated in core load and pre-commercial testing.

6/66 to 5/72 — Served as a United States Navy qualified reactor operator aboard nuclear submarines. Additional duties included repair and maintenance of reactor protection equipment and auxiliaries.

Licenses:

Reactor Operator License Babcock and Wilcox Plant
Reactor Operator License Combustion Engineering Plant
State of Arkansas High Pressure Boiler License

Education:

Teaneck High School
Valpariso Univ. (1 yr.)
Electronics Technician "A" School (U.S.N.)
Nuclear Power School and SIC prototype (U.S.N.)