

1. Identification of Change

Pages 17.1-1, 17.1-2 (paragraphs 3 and 5 [first and second sentence]), 17.1-3 (paragraph 4), 17.1-4, 17.1-8 (paragraph 3 [first and second sentences]), 17.1-9, 17.1-12, Figure 17.1-1, Figure 17.1-2, 17B-1, 17B-1a, 17B-2, 17B-3a, 17B-3b, 17B-3c, 17B-3d, 17B-4, 17B-4a, 17B-5, 17B-9, and Figure 17B-1.

Reason for Change

This change updates the organizational description of KG&E and the Constructor.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

The revised organizational description provides delineation of the authority and duties of positions performing activities affecting the safety-related functions of structures, systems and components. The organizational elements performing quality assurance functions maintain sufficient authority and independence as required by Appendix B.

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CHAPTER 17.0 QUALITY ASSURANCE

17.1 QUALITY ASSURANCE DURING DESIGN AND CONSTRUCTION

This addendum describes the quality assurance program which has been established to provide assurance that the design and construction of the Wolf Creek Generating Station are in conformance with applicable regulatory requirements and with the design bases specified in the license application. Kansas Gas and Electric Company (KG&E) has established a quality assurance program which was developed and coordinated with the SNUPPS utilities quality assurance program.

Section 17.0 of this addendum describes the portions of KG&E's quality assurance program not specifically discussed in the Standard Plant PSAR. Section 17A.0 of this addendum is a description of Sargent & Lundy's quality assurance program. Section 17B.0 of this addendum is a description of the quality assurance program of Daniel International Corporation, the Wolf Creek Generating Station constructor.

Design and Procurement of the standard Power Block has been assigned to Bechtel Power Corporation and Westinghouse Electric Corporation as described in Section 17.0 of the Standard Plant PSAR. The quality assurance program of Bechtel Power Corporation, Lead A/E for the standard Power Block is described in Section 17A.0 of the Standard Plant PSAR. The quality assurance program of Westinghouse Electric Corporation, the NSSS Supplier and fabricator of the first fuel core, is described in Section 17B.0 of the Standard Plant PSAR.

Control of the design and procurement of the standard Power Block is exercised by KG&E through participation in the SNUPPS organization. The SNUPPS organization provides two types of control, technical control, and administrative control. The focal point for both is the SNUPPS Executive Director who has been empowered to act for KG&E, and the other SNUPPS utilities, in the direction of Bechtel and Westinghouse. Technical control of the Power Block for KG&E extends from the Manager Nuclear Plant Engineering and the KG&E member of the SNUPPS Technical Committee and on through the Technical Committee to the Executive Director who in turn directs Bechtel and Westinghouse. Administrative control of the Power Block for KG&E extends from the Vice President-Nuclear who holds membership on the SNUPPS Management Committee and on through the Management Committee to the SNUPPS Executive Director.

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KG&E has assigned Sargent & Lundy design responsibility for the ultimate heat sink, specifically, the cooling lake, dams and related structures required to maintain the integrity of that body of water. Procurement of safety-related structures, systems or components is not assigned to Sargent & Lundy; however, Sargent & Lundy has a program as described in subsections 4.0 and 7.0 of Topical Report SL-TR-1A to provide procurement control should the scope of Sargent & Lundy's responsibility be expanded to include procurement of safety-related items.

Procurement activities generated by Sargent & Lundy's design work will be assigned to the Constructor.

Control of Sargent & Lundy's work both technically and administratively is accomplished by direct administration of the contract between KG&E and Sargent & Lundy. Responsibility for administering Sargent & Lundy's contract lies with the Manager Nuclear Plant Engineering. He interfaces directly with Sargent & Lundy's management for all commercial and administrative activities. Technical direction of Sargent & Lundy is also by the Manager Nuclear Plant Engineering or a designated member of his staff.

KG&E has assigned Dames and Moore work related to geology, hydrology, seismology and meteorology. Dames and Moore has a quality assurance program to control their activities. This program is not addressed as a separate section of this addendum but the measures KG&E has taken to control activities associated with geology, hydrology, seismology and meteorology are described in Section 17.1.2 of this addendum. Control of Dames and Moore's work both technically and administratively is exercised by the Construction Manager through administration of the contract between KG&E and Dames and Moore.

The construction of the Wolf Creek Generating Station and construction management functions has been assigned by contract to Daniel International Corporation. Throughout this addendum, the word "Constructor" will be used to indicate Daniel International Corporation. The scope of work for the Constructor will consist of receiving design information as prepared by Bechtel, Westinghouse and Sargent & Lundy, receiving manufactured items and materials as primarily procured by Bechtel and Westinghouse, procuring additional bulk materials and consumable items, procuring the services of various subcontractors, planning and scheduling the activities of the construction forces and directly supervising the construction forces to assemble the power plant in accordance with the design.

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The Constructor will be required to establish and implement a quality assurance program meeting all the applicable requirements of 10CFR50 Appendix B, and other regulations, guides and standards such as: Regulatory Guides 1.28 and ANSI N45.2-1971 (Except the program requirements as contained in N45.2-1971 and specified in the SNUPPS Standard Quality Assurance Manual apply only to those structures, systems and components which are safety-related). For a delineation of the regulatory guides and ANSI standards endorsed by the KG&E QA program refer to Section 17.1.2 of the Standard Plant portion of this manual. For other regulatory guides see Section 3.12 of the Standard Plant PSAR. | 3.

The Constructor will be required to maintain a sufficient staff of quality assurance personnel at the site to perform verification activities which are necessary to provide adequate confidence that site construction activities are being carried out in accordance with the established program.

KG&E will also conduct site audits and surveillance to verify adequate Constructor performance.

Control of the Constructor's scope of work, both technically and administratively, is accomplished by direct administration of the contract between KG&E and the Constructor. Responsibility for administering the Constructor's contract lies with the Construction Manager. He will interface directly with the Constructor's management for all commercial and administrative activities. The Constructor's activities will be delineated and controlled by written procedures and instructions. These procedures and instructions are reviewed and approved by KG&E to assure that adequate controls are established and to confirm that the division of responsibility and authority within the Constructor's organization is such that the Construction, Quality and Service Groups, can effectively carry out their assigned functions. Technical direction of the Constructor is by the Construction Manager. | 1.

17.1.1 ORGANIZATION - KANSAS GAS AND ELECTRIC COMPANY

KG&E has the organizational structure shown in Figures 17.1-1 and 17.1-2. These charts show lines of administrative direction and relationship to corporate management. All safety-related activities for the design, construction, operation and maintenance of the Wolf Creek Generating Station are included in the responsibilities generally assigned to the Nuclear Department. The Nuclear Department and the subordinate departments of the Nuclear Department which have safety-related project responsibilities are described in the following section. Figure 17.1-3 shows lines of administrative direction, project direction, audit and management participation for the total organization involved in the design, procurement and construction of the Wolf Creek Generating Station.

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17.1.1.1 Nuclear Department

The Nuclear Department has been established by authority of the President and Chief Operating Officer of Kansas Gas and Electric Company. The Nuclear Department has been assigned responsibility for the construction and operation of the company's nuclear facilities.

17.1.1.1.1 Group Vice President - Technical Services

The Group Vice President - Technical Services reports directly to the President and Chairman of the Board. The duties and responsibilities of the Group Vice President - Technical Services include being in charge of all technical aspects of Kansas Gas and Electric Company. These technical aspects encompass operations, transmission and distribution, engineering and construction. This includes the construction and operation phases of WCGS.

17.1.1.1.1a Vice President - Nuclear

The Vice President - Nuclear reports to the Group Vice President - Technical Services and is assigned ultimate responsibility for the efficient functioning of the Nuclear Department. He is an officer of the Company and acts for the company in interactions with important external organizations, such as the SNUPPS Organization and the Nuclear Regulatory Commission. He also holds membership on internal committees such as the KG&E Quality Assurance Committee, General Safety Committee and Executive Committee.

The Director Nuclear Operations reports directly to the Vice President - Nuclear. Also reporting to the Vice President - Nuclear are:

- a. Manager Quality Assurance
- b. Manager Nuclear Plant Engineering
- c. Manager Nuclear Services
- d. Construction Manager.

The Operations Branch headed by the Director Nuclear Operations and the Divisions headed by the above listed Managers function as a team to accomplish the design, construction and operation of the Wolf Creek Generating Station.

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17.1.1.1.6 Construction Management

The Construction Manager reports to the Vice President - Nuclear. He is responsible for directing the activities of the Constructor. He will keep the Vice President - Nuclear advised regarding site activities, he will expedite and monitor construction activities through use of area construction engineers, will be responsible for site security, site purchasing and material control, project accounting and contract administration, project control (to monitor cost and schedule performance) and the construction-startup interface.

17.1.1.1.7 Nuclear Operations

The Plant Superintendent, will report to the Director Nuclear Operations and will be responsible for the operation and maintenance of the nuclear generation station. The Plant Superintendent will supervise the Plant Staff, including operating, maintenance, and technical support groups, which will assist him in implementing his responsibilities. The Plant Staff, with support from the above departments, will develop the detailed procedures and instructions for preoperational testing and commercial operation of the station.

17.1.1.2 Purchasing Department

The Purchasing Department is under the general supervision of the Director - Purchasing. The Director - Purchasing reports to the Group Vice President - Administration and has general responsibility for the procurement of materials, equipment and services. For the Wolf Creek Project, primary procurement responsibility for safety-related items and services, during the design and construction phase, has been assigned to Bechtel, Westinghouse and the Constructor. Control of safety-related procurement activities is carried out by the Nuclear Plant Engineering Division and Quality Assurance Division as further described in Sections 17.1.4 and 17.1.7 of this addendum.

When the project reaches the operational phase the purchasing department will have responsibility for the procurement of safety-related materials equipment and services. Procedures necessary to control this activity will be established prior to need for the activity.

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Prior to construction permit application, procurement activities associated with preparation of contracts for the major participants have been carried out and controlled by KG&E personnel. Responsibilities for commercial terms and general conditions have been carried out by the Vice President - Nuclear, General Counsel, and other members of top management. Technical requirements have been prepared and included in the contracts as directed by the Plant Engineering Department. Quality assurance requirements have been developed and included in contracts as directed by the Quality Assurance Division.

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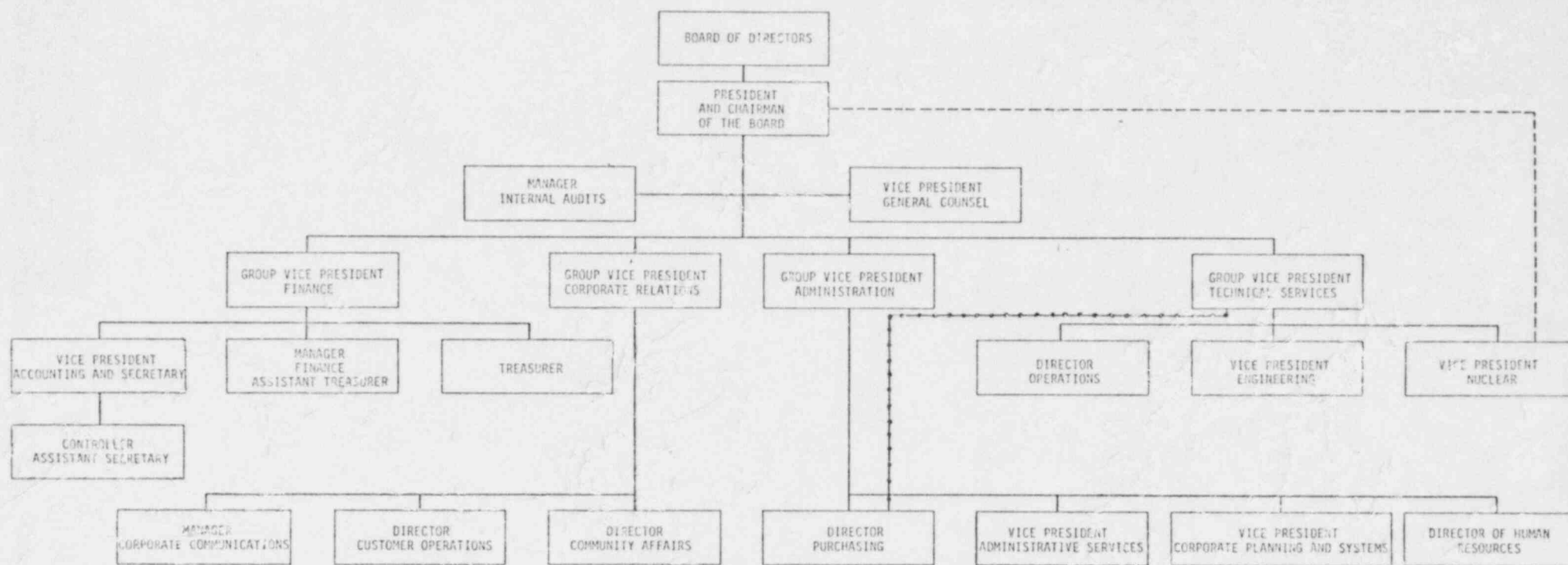
SNUPPS Standard QA Manual and Standard Procedures, and maintain responsibility for revisions thereto.

The SNUPPS Executive Director is responsible for implementing the quality assurance program regarding the quality-related activities of the SNUPPS staff. The KG&E Manager Quality Assurance is individually responsible for implementing the quality assurance program as applied to the quality related activities of KG&E.

The quality assurance program for those quality-related activities conducted jointly by the SNUPPS utilities through the SNUPPS concept are discussed in Section 17.1.2 of the Standard Plant PSAR. The generic, functional titles and organizations discussed in the Standard Plant PSAR are defined for KG&E as follows:

Utility Management	President and Chairman of the Board and the KG&E Quality Assurance Committee
Quality Assurance Manager	KG&E Manager Quality Assurance
Utility QA Department	KG&E Manager Quality Assurance and the home office and site staffs
Utility Nuclear Project Manager	Vice President - Nuclear
Utility Engineering	KG&E Manager Nuclear Plant Engineering and his staff
Site A/E	Sargent & Lundy
Construction Manager Constructor	Daniel International Corporation

Table 17.1.3 of the Standard Plant PSAR indicates the prime responsibility for the performance of activities, responsibility for quality assurance and quality control, and responsibility for audit for activities within the SNUPPS concept. Table 17.1-2 of this addendum indicates this same information for the Wolf Creek Generating Station's safety-related activities outside the scope of the SNUPPS concept.

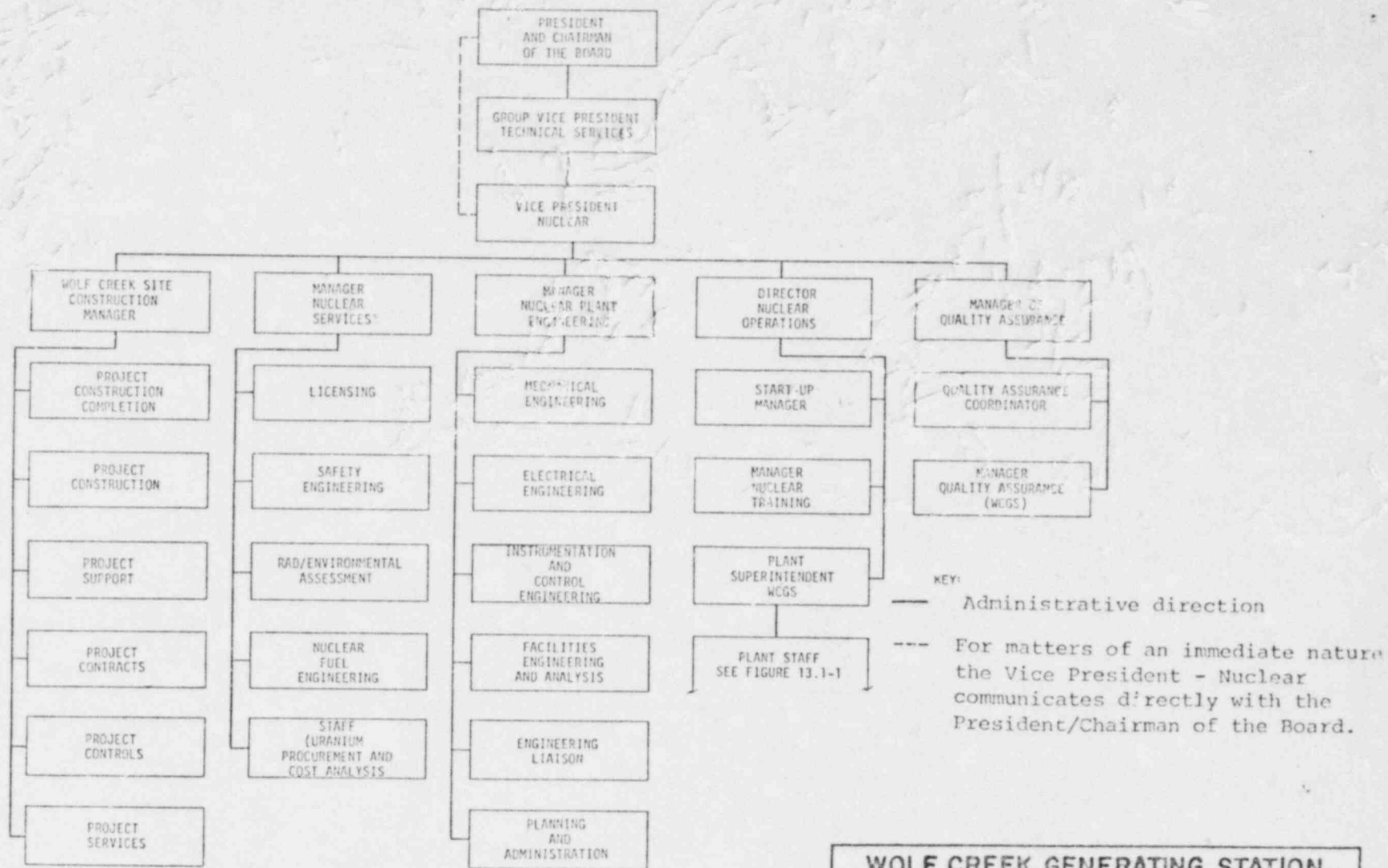


- KEY
- Administrative direction
 - For matters of an immediate nature, the Vice President-Nuclear communicates directly with the President/Chairman of the Board
 - For matters relating to nuclear procurement the Director Purchasing reports to the Group Vice President - Technical Services

WOLF CREEK GENERATING STATION UNIT NO. 1

FIGURE 17.1-1

KG&E CORPORATE ORGANIZATION



WOLF CREEK GENERATING STATION UNIT NO. 1

FIGURE 17.1-2

KG&E WOLF CREEK PROJECT ORGANIZATION

17B.0 DANIEL QUALITY ASSURANCE17B.1 QUALITY ASSURANCE (QA) DURING DESIGN AND CONSTRUCTION

Daniel International Corporation hereinafter referred to as Daniel has been assigned construction and construction management responsibilities for the Wolf Creek Generating Station. Daniel's scope of work will consist of receiving design information as prepared by Bechtel, Westinghouse and Sargent & Lundy; receiving manufactured items and materials as procured by Bechtel and Westinghouse; procuring additional bulk materials and consumable items; procuring the services of various subcontractors; planning and scheduling the activities of the construction forces and directly supervising the construction forces to assemble the power plant in accordance with the design.

This section of the addendum contains a description of the quality assurance program for the scope of work performed by Daniel. This program is incorporated into and is an integral part of the total quality assurance program for the Wolf Creek Generating Station. The program has been established to implement the applicable requirements of 10 CFR 50 Appendix B, and the regulations, guides and standards described in Section 17B.1.2 of this addendum.

Daniel will maintain a staff of quality assurance personnel at the project to perform verification activities which are necessary to provide adequate confidence that project construction activities are being carried out in accordance with the established program.

17B.1.1 ORGANIZATION - DANIEL INTERNATIONAL CORPORATION

Figure 17B-1 shows the structure and interrelationship of the Daniel International Corporation organizations involved in construction of the Wolf Creek Generating Station. The matrix tie also depicted in Figure 17B-1 is the technical and functional interrelationship between the QATS corporate and project organizations as differentiated from the managerial interrelationship.

The President has assigned the responsibility for the construction management of power projects to the President, Power Company and the quality management to the Senior Vice-President, Engineering and Technical Services.

The Division Manager, Quality and Technical Services reports to the Senior Vice President, Engineering and Technical Services and is responsible for formulating the Quality Assurance Program for work assigned to Daniel and for assuring that the assigned safety-related activities are carried out in conformance with the program. He communicates directly with the President of the Power Company as necessary, to resolve quality problems.

The Division Manager, Project Support reports directly to the Division Manager, Quality and Technical Services. The Division Manager, Project Support is responsible for all Quality and Technical Services support to Daniel projects and for personnel assigned to the Greenville office, as well as to project sites. The Director, Quality Support Services; Director, Project Quality Operations; Director, Project Technical Services; and Corporate Quality Engineer report directly to the Division Manager, Project Support.

The Director, Project Quality Operations reports to the Division Manager, Project Support and is responsible for the management and administration of all project quality personnel

and for the proper implementation of the quality portion of the quality assurance program.

The Director, Quality Support Services reports to the Division Manager, Project Support. He is responsible for formulating the Quality Assurance Program for work assigned to Daniel. He is responsible for verifying through the matrix tie reporting function and auditing, that the assigned safety-related activities are carried out in conformance with the Quality Assurance Program. He communicates directly with the President, Power Company, the Director, Project Quality Operations, and Project Quality personnel as necessary, to resolve quality problems.

The Corporate Quality Engineer reports to the Division Manager, Project Support and has functional responsibility for Quality Engineering at the project. He communicates directly with the Director, Project Quality Operations and maintains a matrix tie with the Project Quality Engineer as necessary to resolve quality problems.

The Director, Project Technical Services reports to the Division Manager, Project Support and is responsible for providing construction services to the Daniel Power Company and other Daniel organizations. The Director, Project Technical Services is responsible for providing procedures such as special process control procedures and other technical services to the Power Company and other organizations. The following paragraphs describe the safety-related functions and responsibilities of the Quality and Technical Services Division, Daniel Power Company, and project management.

17B.1.1.1 Quality and Technical Services Division

17B.1.1.1.1 PROJECT QUALITY OPERATIONS

The Director, Project Quality Operations is assisted by Regional Quality Managers, who are delegated the responsibility and authority for managing the required activities for the assigned projects, and the Manager QATS Training. The Regional Quality Manager is responsible for implementing the Quality Assurance Program and assuring that the program is in compliance with the applicable job requirements. The Manager QATS Training is responsible for coordinating Project Quality Training to establish a uniform approach to training. The Director, assisted by the Regional Quality Managers and Manager QATS Training is responsible for:

- a. Selecting, training, and supervising a staff of qualified project quality personnel to implement the project portion of the Quality Assurance Program. These quality personnel are independent of project construction management.

- g. Advising the Project Manager and Regional Quality Manager of Quality Program status.
- h. Assuring that matrix tie reporting responsibilities are maintained.
- i. Assuring that matrix tie reporting responsibilities are maintained.

He is assisted by a Project Quality Assurance Engineer, Project Quality Inspection Manager, Project Quality Engineer, Project Quality Services Engineer, and Project Quality Turnover Engineer.

The Project Quality Assurance Engineer reports to the Project Quality Manager with matrix tie to the corporate Manager, Quality Assurance and is responsible for the following:

- a. Developing and executing a comprehensive program of surveillance and audit to assure that the project quality requirements are correctly implemented and documented.
- b. Providing documentation of his audit activities to appropriate management for review and necessary corrective action.
- c. Reauditing deficient areas or items as necessary to assure completion of required corrective actions.
- d. Stopping work at his discretion. He has the authority to stop field construction work at any time the quality of work is in question.
- e. Auditing and evaluating the project procedures and instructions for adequacy, effectiveness, and conformance to requirements affecting quality.
- f. Auditing the QA programs of Daniel suppliers and subcontractors providing materials, equipment, and/or services.
- g. Consulting with and advising the Project Quality Manager and corporate Manager, Quality Assurance on problems affecting the quality of construction.

He is assisted by a trained staff of Quality Assurance Engineers.

The corporate and project quality assurance audits within the Daniel organization are in addition to the surveillance and audits performed by the Kansas Gas and Electric Company.

The Project Quality Inspection Manager reports to the Project Quality Manager and is responsible for the implementation and administration of the Project Quality Inspection program. He directs the work of discipline Quality Supervisors and Quality personnel that perform inspection, examination, testing, and

documentation activities. The performance of subcontractor supplied test services are also directed by discipline Quality Supervisors. The Project Quality Inspection Manager is responsible for:

- a. Providing inspection, verification, and documentation in accordance with the Quality Assurance Program and the Quality procedures.
- b. Selecting, training, and assigning experienced and qualified Quality Supervisors and Inspectors to perform inspections.
- c. Controlling nonconforming materials, parts, and components with a documented procedure to prevent their inadvertent use or installation.
- d. Stopping the further processing of or performance of work on specific items/areas found to be in nonconformance with project requirements.

He is assisted by a trained staff of Quality Supervisors/Inspectors.

The Project Quality Engineer reports to the Project Quality Manager with a matrix tie to the Corporate Quality Engineer and is assigned responsibility for technical input and the development of Project Quality Programs. The Project Quality Engineer is responsible for:

- a. Reviewing and concurring with the QA programs of Daniel suppliers and subcontractors providing materials, equipment, or services prior to purchase award.
- b. Providing technical assistance in supplier/subcontractor audits and receiving of materials, equipment, or services as requested by the Project Quality Services Engineer.
- c. Reviewing and concurring that Project documents such as Construction Procedures, purchase requisitions, and design specifications are in compliance with codes, standards, and project Quality requirements.
- d. Providing technical direction and preplanning for the Project Quality Department by translating the applicable requirements of the owner-supplied design documents into procedures, checklists, and instructions used to perform examinations, testing, and inspections of the construction work, and providing identification of calibration tools and calibration requirements.
- e. Providing technical input and control of nonconformances applicable to the Quality organization as generated by Project personnel and assist in follow-up and close-out of approved corrective actions.

- f. Selecting, training, and assigning experienced and qualified engineers to perform the Quality Engineering function.
- g. Providing Quality Department input to the client, NRC, and Daniel audits.
- h. Performing as technical interface for the Quality Organization with Daniel Construction Engineering and others as required.
- i. Develop quality inspection, engineering, and services procedures and instructions. Assist the Project Quality Engineer in the development and issuance of Quality Assurance procedures.

The Project Quality Engineer is assisted by a trained staff of Discipline Quality Engineers.

The Project Quality Services Engineer reports to the Project Quality Manager with a matrix tie to the corporate Manager, Quality Services and is responsible for the implementation and administration of quality vendor programs, quality receiving, quality documentation, and quality calibration program. The Project Quality Services Engineer is specifically responsible for:

- a. Reviewing and qualifying supplier's and subcontractor's Quality programs and providing pre- and post-award surveillance and audit of off site suppliers and subcontractors.
- b. Selecting, training, and assigning experienced and qualified personnel to perform receiving inspections, vendor surveillance activities, documentation reviews/processing, and calibration functions at the project.
- c. Controlling and calibration of test and measuring equipment in accordance with documented approved procedures.
- d. Inspecting equipment and materials at the time of receipt to assure compliance to the purchase order, specification, and other applicable project requirements.
- e. Providing a Quality Document distribution, review, and filing program to assure legible records which verify that the specified quality activities were performed and that construction operations and materials are in conformance with the design documents.

The Project Quality Services Engineer is assisted by a trained staff of qualified Quality Engineers/Supervisors/Inspectors.

The Project Quality Turnover Engineer reports to the Project Quality Manager and is responsible for the Quality integrity of system turnovers to Client personnel. The Project Quality Turnover Engineer is specifically responsible for:

- a. Selecting, training and assigning experienced and qualified personnel to perform traveler documentation review, documentation review and processing for N-5 Data Report preparation, system walk-down verifications and hydrostatic test inspection verifications.
- b. Coordinate with the Project Quality Engineer in establishing procedures, checklists and instructions to perform document review, prepare N-5 Data Reports, perform system walkdown verifications and process system turnover documentation.
- c. Provide Quality department interface with various related Daniel Construction, Authorized Inspector (AI) and Client organizations relative to system turnover operations.
- d. Develop and implement a system walkdown verification program to assure system integrity prior to turnover.
- e. Develop and implement a Quality review and filing program to assure completeness and accuracy of traveler documentation and correction of discrepancies identified during this review.
- f. Develop and implement a Quality Inspection verification program to assure system hydrotest parameters and requirements are completed and documented.
- g. Develop and implement a Quality program to assure the preparation, compilation and submittal of N-5 and N-3 Data Reports to turnover of ASME Code related systems to the Client.

The Project Quality Turnover Engineer is assisted by a trained staff of supervisors, engineers, inspectors and technicians.

17B.1.1.1.2 QUALITY SUPPORT SERVICES

The Director, Quality Support Services, assisted by an appropriate staff of managers, engineers, and technicians through auditing and matrix tie reporting responsibilities is responsible for the following:

17B.1.1.1.3 QUALITY ENGINEERING

The Corporate Quality Engineer reports to the Division Manager, Project Support and has been assigned the responsibility for administering the Quality Engineering functions associated with corporate activities. He is responsible for providing assistance to the Project Quality Engineer in resolving Quality Engineering problems and coordinating activities between the Project Quality Engineering organization.

17B.1.1.1.4 TECHNICAL SERVICES

The Manager, Technical Services is responsible for providing the following as required:

- a. Qualified Welding Procedure Specifications and other procedures necessary for control of special processes including inspection and testing procedures, assistance in personnel training and qualification.
- b. The Corporate Level III non-destructive examination function including procedures, training and certification of personnel and has final authority for NDE interpretation.
- c. Coordination of authorized inspection agency services.
- d. Technical Support to Corporate Quality and Quality Support Services.

Technical Services will provide assistance as required in the following areas:

- a. Qualified consulting services to the projects in engineering disciplines and in specialty areas such as concrete, rigging, insulation and roofing.
- b. Assistance in developing and reviewing project procedures.
- c. Indoctrination and training services in areas of technical expertise.
- d. Code interpretation and uniform fabrication and construction procedures necessary to meet code requirements in the electrical, instrumentation, mechanical and civil disciplines.

17B.1.1.2 Daniel's Power Company

The Power Company is headed by the President Power Company who reports to the President and Chief Operating Officer. The Power Company is assigned responsibility for the construction of nuclear power generating facilities undertaken by the company. The Vice President of the Power Company is responsible for the administration of construction operations for power projects.

He is assisted by Regional Managers who administer the nuclear power construction assigned to their regions.

17B.1.1.3 Project Management

The Daniel Project Manager reports to the Power Company Regional Manager, represents Daniel in all matters relating to the Wolf Creek Generating Station, and is fully responsible for proper construction, Construction Engineering, Services implementation and satisfactory operation of the construction quality assurance program.

The Project Manager is completely responsible for satisfactorily executing the construction of the assigned work in conformance with the job requirements and the contractual interest of the Owner in terms of construction, quality, safety, efficiency, and schedule.

He is responsible for:

- a. Assuring that all construction operations and materials are in compliance with job requirements, the quality assurance program, and the detailed procedures and instructions.
- b. Obtaining necessary services from corporate organizations.
- c. Reviewing and approving detailed project procedures.
- d. Consulting with the Project Quality Manager on problems affecting the quality of construction operations and materials.
- e. Stopping work at his discretion. He has the authority to stop field construction work any time the quality of the work is in question.
- f. Controlling purchased material, equipment, and services. Procurement is controlled by implementing procedures in the Construction Procedures Manual which assure that the procurement documents contain or reference applicable requirements of 10 CFR 50, Appendix B, including reference that contractor and subcontractor personnel performing QA functions have sufficient authority and organizational freedom to effectively implement their respective QA Programs.

The Project Manager is assisted in the discharge of his responsibilities by the Construction Manager and the Services Manager. He receives on-site staff assistance in planning and cost control and, as each unit approaches trial operation,

17B.1.2 QUALITY ASSURANCE PROGRAM

The quality assurance program has been established to control assigned construction, purchasing, engineering, and related services. The program is to be applied to those safety-related structures, systems, equipment and components that prevent or mitigate the consequences of postulated accidents that could cause undue risk to the health and safety of the public. Safety-related items are identified in the Standard Plant PSAR, Table 3.2-1, and Wolf Creek PSAR addendum Section 3.8.4.

Procedures and instructions which describe the implementation of the quality assurance program in this addendum are contained in the Construction Procedures Manual. The procedures and instructions are developed and administered by the project organization with review and comment by Project Quality Manager. Prior to issuance, procedures are forwarded to KG&E for review and final approval. Instructions are subject to review and final approval by Daniel QA organization prior to their release. Construction procedures and instructions are issued prior to performing the activity which they control. Table 17B-1 lists the topics or activities which shall be controlled by documented procedures and instructions. The Construction Procedures Manual includes provisions for its review and revision. It also includes provisions for indoctrination and training of personnel who manage or direct quality related activities.

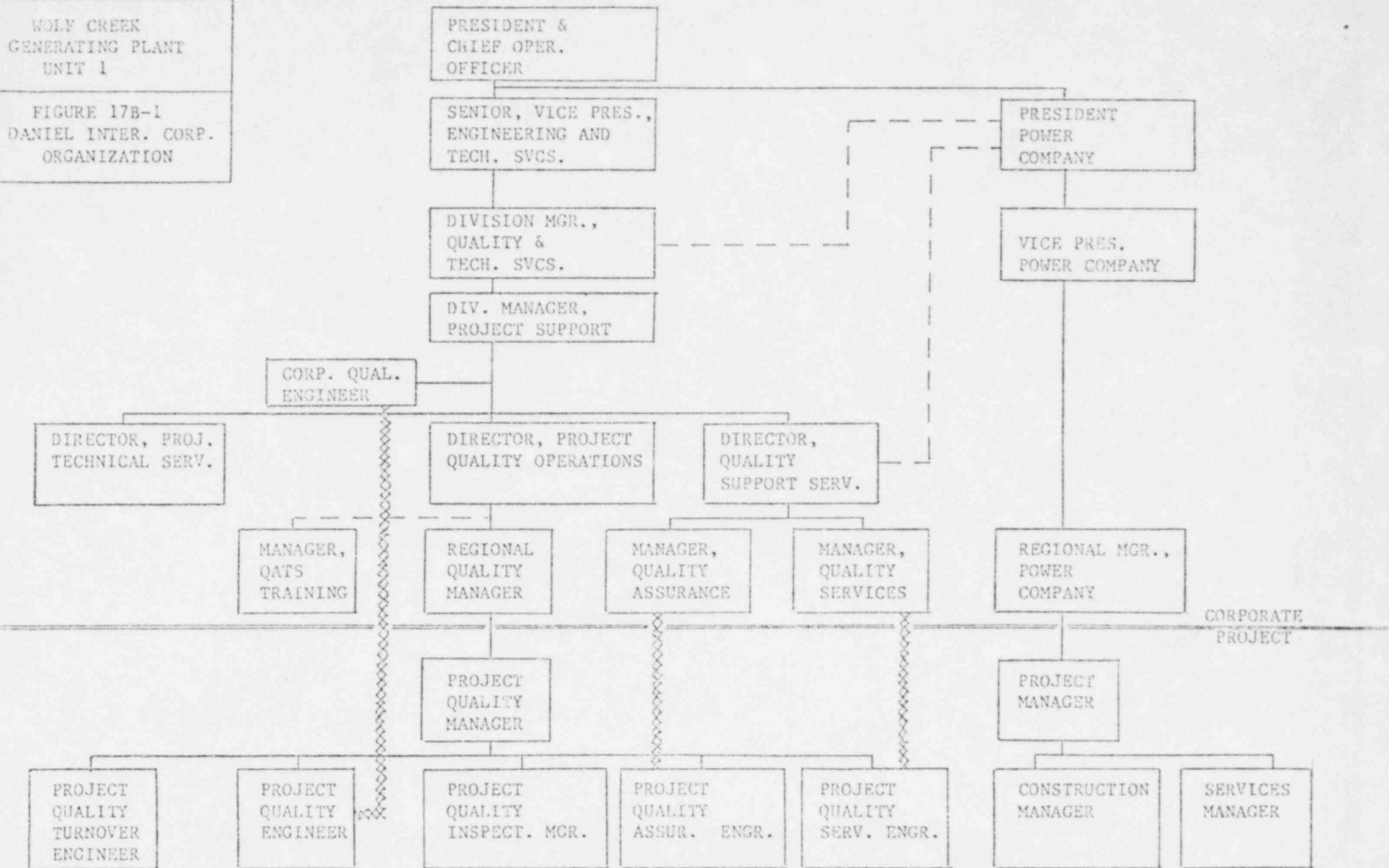
The President, Power Company and Division Manager, Quality and Technical Services shall provide regular management review of the adequacy and effectiveness of the quality assurance program. This review shall be performed by management above or outside the QA organization to assure achieving an objective program assessment.

The quality assurance program for construction activities complies with the requirements of 10 CFR 50, Appendix B and follows the guidance of NRC Regulatory Guides and ANSI Standards listed in Chapter 17.1 section 17.1.2 of the SNUPPS Standard Plant PSAR.

The elements of this quality assurance program apply only to those safety-related structures, systems, and components identified in Table 3.2-1 of the Standard Plant PSAR, and Wolf Creek PSAR addendum Section 3.8.4. (The current version of the table is located in the SNUPPS Standard Plant PSAR.)

WOLF CREEK
GENERATING PLANT
UNIT 1

FIGURE 17B-1
DANIEL INTER. CORP.
ORGANIZATION



KEY:
 — ADMINISTRATIVE DIRECTION
 - - - LINE OF COMMUNICATION AND SERVICE
 XXXXXX MATRIX TIE

Rev 7
6/83

2. Identification of Change

Pages 17.1-2 (paragraph 5 [third sentence]), 17.1-8 (paragraph 3 [third sentence]), 17.1-24, 17.1-25, and 17.1-31.

Reason for Change

These revised pages remove the inference that all non-bulk items and materials are procured by Bechtel and Westinghouse.

Basis for Concluding that Revised Program Satisfies 10CFR50 Appendix B

While Bechtel and Westinghouse provide the majority of non-bulk items and materials, other organizations such as KG&E and the Constructor can procure items and materials under their QA programs which satisfy the requirements of Appendix B.

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KG&E has assigned Sargent & Lundy design responsibility for the ultimate heat sink, specifically, the cooling lake, dams and related structures required to maintain the integrity of that body of water. Procurement of safety-related structures, systems or components is not assigned to Sargent & Lundy; however, Sargent & Lundy has a program as described in subsections 4.0 and 7.0 of Topical Report SL-TR-1A to provide procurement control should the scope of Sargent & Lundy's responsibility be expanded to include procurement of safety-related items.

Procurement activities generated by Sargent & Lundy's design work will be assigned to the Constructor.

Control of Sargent & Lundy's work both technically and administratively is accomplished by direct administration of the contract between KG&E and Sargent & Lundy. Responsibility for administering Sargent & Lundy's contract lies with the Manager Nuclear Plant Engineering. He interfaces directly with Sargent & Lundy's management for all commercial and administrative activities. Technical direction of Sargent & Lundy is also by the Manager Nuclear Plant Engineering or a designated member of his staff.

KG&E has assigned Dames and Moore work related to geology, hydrology, seismology and meteorology. Dames and Moore has a quality assurance program to control their activities. This program is not addressed as a separate section of this addendum but the measures KG&E has taken to control activities associated with geology, hydrology, seismology and meteorology are described in Section 17.1.2 of this addendum. Control of Dames and Moore's work both technically and administratively is exercised by the Construction Manager through administration of the contract between KG&E and Dames and Moore.

The construction of the Wolf Creek Generating Station and construction management functions has been assigned by contract to Daniel International Corporation. Throughout this addendum, the word "Constructor" will be used to indicate Daniel International Corporation. The scope of work for the Constructor will consist of receiving design information as prepared by Bechtel, Westinghouse and Sargent & Lundy, receiving manufactured items and materials as primarily procured by Bechtel and Westinghouse, procuring additional bulk materials and consumable items, procuring the services of various subcontractors, planning and scheduling the activities of the construction forces and directly supervising the construction forces to assemble the power plant in accordance with the design.

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The Construction Manager reports to the Vice President - Nuclear. He is responsible for directing the activities of the Constructor. He will keep the Vice President - Nuclear advised regarding site activities, he will expedite and monitor construction activities through use of area construction engineers, will be responsible for site security, site purchasing and material control, project accounting and contract administration, project control (to monitor cost and schedule performance) and the construction-startup interface.

17.1.1.1.7 Nuclear Operations

The Plant Superintendent, will report to the Director Nuclear Operations and will be responsible for the operation and maintenance of the nuclear generation station. The Plant Superintendent will supervise the Plant Staff, including operating, maintenance, and technical support groups, which will assist him in implementing his responsibilities. The Plant Staff, with support from the above departments, will develop the detailed procedures and instructions for preoperational testing and commercial operation of the station.

17.1.1.2 Purchasing Department

The Purchasing Department is under the general supervision of the Director - Purchasing. The Director - Purchasing reports to the Group Vice President - Administration and has general responsibility for the procurement of materials, equipment and services. For the Wolf Creek Project, primary procurement responsibility for safety-related items and services, during the design and construction phase, has been assigned to Bechtel, Westinghouse and the Constructor. Control of safety-related procurement activities is carried out by the Nuclear Plant Engineering Division and Quality Assurance Division as further described in Sections 17.1.4 and 17.1.7 of this addendum.

When the project reaches the operational phase the purchasing department will have responsibility for the procurement of safety-related materials equipment and services. Procedures necessary to control this activity will be established prior to need for the activity.

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17.1.4 PROCUREMENT DOCUMENT CONTROL

KG&E has assigned procurement of the majority of safety-related equipment, components and services to the major contractors as follows:

- a. Nuclear Steam Supply System (NSSS)-Westinghouse Electric Corporation.
- b. First core fuel fabrication-Westinghouse Electric Corporation.
- c. Equipment and Components within the SNUPPS concept (except NSSS)-Bechtel Power Corporation.
- d. On-site construction and installation-Constructor.

In assigning the procurement functions for the NSSS, fuel fabrication, and SNUPPS concept equipment, KG&E, working through the SNUPPS organization requires that these contractors provide procurement document controls that are in accordance with the requirements of 10CFR50, Appendix B.

In assigning the procurement functions for on-site construction and installation, KG&E requires that the Constructor provides procurement document controls that are in accordance with the requirements of 10CFR50, Appendix B.

KG&E and the major contractors implement procedures which delineate the sequence of actions to be accomplished in the preparation, review, approval and control of procurement documents, to satisfy their procurement responsibilities presented above. In addition, KG&E implements procedures for the selective review of procurement documents through the SNUPPS organization, as follows:

- a. Review of qualified vendors lists for equipment procured by Bechtel and Westinghouse.
- b. Review of Bechtel procurement documents.
- c. Review of Bechtel selections for major equipment.

Also, KG&E implements procedures for the selective review of procurement documents generated by the Constructor such as:

- a. Qualified vendor lists for material, equipment, and services procured by the Constructor.
- b. Constructor bid selections.

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KG&E and each major contractor employ procurement document control procedures which require that the adequacy of procurement documents receive review and concurrence by personnel knowledgeable in the QA requirements. This review verifies that quality assurance requirements are appropriate, are correctly stated, are capable of being verified and controlled, that the document includes or references appropriate acceptance and rejection criteria and has been prepared in accordance with QA program requirements. This review will be performed by personnel other than those responsible for preparing the documents. Revisions or changes to procurement documents that effect technical or quality assurance aspects of the procurement document are subjected to the same review requirements as the original document. Documented evidence of this review and concurrence will be provided and available for verification.

Procurement documents identify those pertinent requirements of 10CFR50 Appendix B which must be complied with and described in the Contractor's, Subcontractor's or Supplier's QA Program. This QA Program is subjected to a review and concurrence by knowledgeable QA personnel acting for the buyer, prior to implementation of activities affected by the program. These procurement documents include:

- a. Procurement documents issued by KG&E.
- b. Procurement documents issued by the major contractors.

The requirements for procurement document control which are imposed by KG&E on major contractor procurement document preparation are discussed in Section 17.1.4 of the Standard Plant PSAR.

The measures which the major contractors, Bechtel, Westinghouse, and the Constructor, have established in response to these requirements, are described in Sections 17A.1.4 and 17B.1.4 of the Standard Plant PSAR and Section 17B.1.4 of this addendum.

KG&E, either individually or jointly through the SNUPPS organization, performs periodic audits to assess the adequacy of the quality assurance program of each organization involved in the design procurement and construction of the Wolf Creek Generating Station. These audits are the mechanism that KG&E utilizes to assure that the measures which the major contractors have implemented for document control are in accordance with the requirements of 10CFR50, Appendix B.

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17.1.7 CONTROL OF PURCHASED MATERIAL EQUIPMENT AND SERVICES

The KG&E Quality Assurance Program establishes controls to assure that purchased material, equipment, and services, whether purchased directly or through contractors and sub-contractors, conform to the procurement documents. These measures shall include provisions, as appropriate, for source evaluation and selection, objective evidence of quality furnished by the contractors or subcontractors, inspection and audit at the source, and examination of products upon delivery.

The KG&E nuclear project departments are responsible for the control of purchased material, equipment and services. The procurement of the majority material, equipment and services for the Wolf Creek Generating Station falls into three distinct areas:

1. Major contractor services procured directly by KG&E.
2. Items procured jointly through the SNUPPS organization.
3. Items procured by the Constructor, or by his sub-contractors and suppliers.

Each of these is controlled by implementing procedures to assure that the procurement document controls are in accordance with the requirements of 10CFR50, Appendix B. Section 17.1.4 of the Standard Plant PSAR describes the general measures established for this control.

KG&E and each major contractor is responsible to establish measures for the control of purchased material, equipment and services applicable to their scope of work, which include:

- a. Procedures for evaluation of suppliers which are developed by knowledgeable personnel competent in determining the ability of suppliers to provide acceptable quality products. The QA and Engineering organization participate in the evaluation of those suppliers providing critical components. Purchase of simple off-the-shelf items may be made without requiring a pre-award evaluation.
- b. Required evaluation of suppliers will be based on one or more of the following:
 1. An audit to verify the ability of the supplier to comply with those elements of 10CFR50 Appendix B that are applicable to the type of material, equipment, and services being procured.

3. Identification of Change

Page 17.1-3 (paragraph 1)

Reason for Change

The updated page corrects the reference to a portion of the Addendum which no longer contains the listing of Regulatory Guides and ANSI Standards.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

The original commitment was not changed. The reference to the location of the Regulatory Guide/ANSI Standard listing has been corrected.

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The Constructor will be required to establish and implement a quality assurance program meeting all the applicable requirements of 10CFR50 Appendix B, and other regulations, guides and standards such as: Regulatory Guides 1.28 and ANSI N45.2-1971 (Except the program requirements as contained in N45.2-1971 and specified in the SNUPPS Standard Quality Assurance Manual apply only to those structures, systems and components which are safety-related). For a delineation of the regulatory guides and ANSI standards endorsed by the KG&E QA program refer to Section 17.1.2 of the Standard Plant portion of this manual. For other regulatory guides see Section 3.12 of the Standard Plant PSAR. | 3.

The Constructor will be required to maintain a sufficient staff of quality assurance personnel at the site to perform verification activities which are necessary to provide adequate confidence that site construction activities are being carried out in accordance with the established program.

KG&E will also conduct site audits and surveillance to verify adequate Constructor performance.

Control of the Constructor's scope of work, both technically and administratively, is accomplished by direct administration of the contract between KG&E and the Constructor. Responsibility for administering the Constructor's contract lies with the Construction Manager. He will interface directly with the Constructor's management for all commercial and administrative activities. The Constructor's activities will be delineated and controlled by written procedures and instructions. These procedures and instructions are reviewed and approved by KG&E to assure that adequate controls are established and to confirm that the division of responsibility and authority within the Constructor's organization is such that the Construction, Quality and Service Groups, can effectively carry out their assigned functions. Technical direction of the Constructor is by the Construction Manager. | 1.

17.1.1 ORGANIZATION - KANSAS GAS AND ELECTRIC COMPANY

KG&E has the organizational structure shown in Figures 17.1-1 and 17.1-2. These charts show lines of administrative direction and relationship to corporate management. All safety-related activities for the design, construction, operation and maintenance of the Wolf Creek Generating Station are included in the responsibilities generally assigned to the Nuclear Department. The Nuclear Department and the subordinate departments of the Nuclear Department which have safety-related project responsibilities are described in the following section. Figure 17.1-3 shows lines of administrative direction, project direction, audit and management participation for the total organization involved in the design, procurement and construction of the Wolf Creek Generating Station.

4. Identification of Change

Page 17.1-6

Reason for Change

The change was made to provide a better description of the contents and distribution of the weekly report prepared by the Manager Quality Assurance (WCGS).

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

The commitment for providing upper management with a report has not changed. More detail as to contents and distribution of the report has been added.

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Assurance Committee Audits of Bechtel and Westinghouse, and shop and field surveillance activities. Other verification activities which are the responsibility of the QA Division include a review of engineering and procurement documents to verify that proper QA requirements have been included.

Line functions include the preparation of quality procedures and other program documents and the preparation of quality assurance requirements for contracts.

The Manager Quality Assurance carries out a comprehensive system of planned and periodic audits to verify compliance with the KG&E quality assurance program. The results of these audits are reported to all members of the KG&E Quality Assurance Committee. When significant deficiencies are revealed in final design or when conditions arise which have a negative effect on the QA program, they shall be reported without delay. The report will include the specific corrective action measures to be implemented and any stop work action required.

Once construction begins, the Manager Quality Assurance (WCGS), located at the plant site, shall prepare a weekly report on quality-related activities in progress at the plant site. Specifically, this report will provide information regarding special activities, concerns, significant findings and other noteworthy items affecting quality. Distribution will be made to the Manager Quality Assurance and the KG&E Quality Assurance Committee for their information. During the design, procurement and construction phases of nuclear plant construction, the Manager Quality Assurance is responsible for monitoring all participating quality assurance organizations to assure that personnel performing quality related activities are implementing their organizations' quality assurance programs.

17.1.1.1.3 KG&E Quality Assurance Committee

Kansas Gas and Electric Company has established a Quality Assurance Committee (QAC). The prime responsibility of this committee is to measure the effectiveness of KG&E's QA program and initiate changes when warranted. The permanent members of this Committee are: Vice President - Nuclear, Vice President - Engineering, Legal Counsel, Director Nuclear Operations, Construction Manager, Manager Fossil Production.

In carrying out their responsibilities the members of the Quality Assurance Committee shall utilize information received from internal audit reports, audit reports on the activities of the major participants in the project, audit reports of other organizations supplying services or materials which are important to safety or reliability, inspection reports, summaries of non-conformance

5. Identification of Change

Page 17.1-7

Reason for Change

The revised page provides a better description of the involvement of the KG&E QA Committee in reviewing NRC notices of violation and corresponding responses.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

Upper management awareness of the QA Program effectiveness has not been reduced.

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reports, corrective action reports, and NRC reports and citations, if any.

The QAC shall meet at least once during each calendar quarter. The chairman of the committee is the Vice President - Nuclear, who may call additional meetings as necessary. The committee will not concern itself with minor isolated QA problems but will take a broad overview of KG&E's QA program, and make decisions which will provide meaningful adjustments to the QA program.

Notices of violation received from the NRC and responses made to the NRC which are quality related shall be reviewed by members of the QAC. The Chairman will assign the responsibility for preparing reports to be sent to the NRC and will review and issue all such reports.

When significant quality assurance deficiencies occur (as defined in 10CFR50.55(e) or 10CFR21), the report to the NRC will be made by the chairman of the QAC. The committee members review all reports of significant deficiencies and defects and initiate additional corrective action (s) when they determine them to be necessary.

17.1.1.1.4 Plant Engineering Division

The Manager Nuclear Plant Engineering reports to the Vice President - Nuclear. Nuclear Plant Engineering is responsible for directing the design work of the site A/E and for performing engineering reviews of plant design criteria, system descriptions, selected classes of design drawings and selected specifications. These reviews supplement the independent design reviews required by 10CFR50, Appendix B, which are performed by others. Results of these reviews are transmitted to SNUPPS and they become input material for discussion and decisions of the Technical Committee. Nuclear Plant Engineering also reviews the Q-list and approves the bidders list for selected major equipment. Nuclear Plant Engineering defines and controls design interfaces between the lead A/E, the site A/E, and site consultants. Nuclear Plant Engineering also provides technical assistance to other KG&E divisions including the Quality Assurance Division on matters relating to plant construction, preoperational and startup testing, operations and operator training.

17.1.1.1.5 Nuclear Services Division

The Manager Nuclear Services reports to the Vice President - Nuclear and is responsible for directing the activities of his staff. These activities include licensing, fuels management, safety analysis, health physics, chemistry and environmental activities and for providing technical assistance in these areas to other KG&E departments.

6. Identification of Change

Page 17.1-11

Reason for Change

The update added the policy manual to the listing of documents containing policies, procedures and instructions.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

The addition of another document containing policies for the project does not reduce program commitments.

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- c. The SNUPPS organization "ADMINISTRATIVE CONTROL PROCEDURES" which provides detailed information for program implementation by the SNUPPS Staff as specified in the Standard QA Manual and Procedures.
- d. The "WOLF CREEK PROJECT POLICY MANUAL" and the "KG&E PROCEDURES MANUAL," which contain policies, procedures and instructions which implement the requirements and responsibilities set forth in the SNUPPS Standard Manual for KG&E. Table 17.1-1 lists those procedures which have been implemented to control on-going activities at the time of PSAR submittal, and provides a brief description of the purpose of each procedure. The table also lists those activities which will be controlled by procedures to be written and implemented during the remainder of the design, procurement, construction and pre-operational testing. These procedures will be prepared, approved, and implemented prior to performing the activity which they control. KG&E maintains a schedule for the preparation and implementation of these procedures which is consistent with the project schedule and which allows adequate time for personnel training and procurement of specialized equipment.

6.

These documents, plus the Quality Assurance Programs of each of the major participants, establish the total quality program for the Wolf Creek Generating Station project.

Nuclear Services Corporation of Campbell, California was retained to advise and support the SNUPPS utilities in the development of the QA program, as a means of assuring that the program meets the requirements of 10CFR50, Appendix B and the applicable Regulatory Guides and ANSI Standards.

Specific quality assurance requirements and organizational responsibilities for implementation of the quality assurance program are specified in the SNUPPS Standard Quality Assurance Manual. The policy statement within this manual has been reviewed and approved by a corporate executive of each SNUPPS utility, including the KG&E Vice President - Nuclear. The members of the SNUPPS QA Committee have prepared and approved the

7. Identification of Change

Page 17.1-15

Reason for Change

This revised page clarifies the fact that operational organizations working under the Wolf Creek Operating QA Program will be performing work activities to support construction.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

Both the SNUPPS QA Program for Safety-Related Design and Construction activities and the Wolf Creek Operating QA Program satisfy the requirements of Appendix B.

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Preoperational testing procedures will be planned for, prepared and conducted in accordance with requirements contained in the Operating QA Program. Preoperational testing procedures shall define and control the transfer of QA records and QA responsibility from the construction QA organization to the operation QA organization. These procedures will specify appropriate methods of tagging and identifying items, and provide for indication of the latest prescribed test and/or inspection passed by an item.

Operational Organizations committed to the requirements of the Wolf Creek Generating Station Operating QA Program may provide Quality Related Activities to organization(s) committed to the requirements of the Design and Construction QA Program (e.g., processing and testing of demineralized water). The operating organization providing the safety-related activity for the construction applications shall assure that all personnel are qualified in accordance with the Operating QA Program qualification requirements. Both KG&E Construction and Operations shall be responsible for establishing procedures to control the interface between the operations organization(s) providing the activity and the using construction organization(s).

In addition to on-going, safety-related activities being conducted by the major contractors, responsibility for on-going, site-related activities has been assigned to engineering consultants. The measures KG&E employs to control and audit these activities are described below.

Kansas Gas and Electric Company has assigned Dames & Moore Consulting Engineers the responsibility of providing information regarding the meteorological, hydrologic, seismic and geologic characteristics of the site and the region surrounding the site. KG&E has required Dames & Moore to develop a QA program and implement their program in accordance with written instructions or procedures to control their activities relating to meteorology, hydrology, seismology and geology. Dames & Moore has supplied KG&E with the controlled copy of the Dames & Moore's Quality Assurance Manual. KG&E has required that Dames & Moore's program meet the applicable requirements of 10CFR50 Appendix B.

KG&E has required Dames & Moore to prepare and implement procedures for the control of meteorological data collection at the site. These procedures include instructions for the calibration of the meteorological instruments. KG&E's audit program has been implemented to verify adequate performance of Dames & Moore's control of meteorological work. KG&E has required Dames & Moore to provide descriptions of the training and experience possessed by personnel-assigned work related to the meteorological data.

8. Identification of Change

Pages 17.1-41, 17.1-42, 17.1-46, 17.1-47, and 17.1-57

Reason for Change

These revised pages remove references to preoperational test activities which are governed by the Operating QA Program rather than the SNUPPS QA Programs for Design and Construction.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

Both the SNUPPS QA Program for Safety-Related Design and Construction activities and the Wolf Creek Operating QA Program satisfy the requirements of Appendix B.

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17.1.11 TEST CONTROL

The KG&E quality assurance program has established test program requirements to ensure that required testing is identified, documented and performed in accordance with controlled and written test procedures.

Each contractor is responsible to establish a test program to control its testing activities. This test program will cover all required tests, including, where appropriate, prototype qualification tests, hydrostatic tests of pressure boundary components, in-process tests of manufactured items, and proof tests prior to installation. KG&E shall establish a preoperational test program which is governed by the Operating QA Program. These test programs are designed to demonstrate that structures, systems, and components will perform satisfactorily in service. The program shall specify the system for developing, issuing, revising and review of written test procedures.

8.

KG&E requires that tests are accomplished in accordance with written procedures. Each of the major contractors and their subcontractors are responsible to accomplish tests in accordance with written test procedures. These written test procedures will incorporate or reference the requirements and acceptance limits specified in applicable design and procurement documents. These test procedures, as appropriate, will also include test objectives; test prerequisites; instructions for performing each test; operating instructions for test equipment instrumentation, or reference thereto; and documentation and evaluation of test results to assure satisfaction of test requirements. The test documentation will be retained as quality records. As applicable, the test prerequisites specified by these procedures include, but are not limited to: preparation, condition, and completeness of the item to be tested; stipulations for the use of calibrated instruments; adequate and appropriate equipment; and requirements for trained, qualified and, as appropriate, licensed and/or certified personnel. Test prerequisites also include suitable, and, if appropriate, controlled environmental conditions and mandatory inspection and hold points. These inspection and hold points may require witnessing by designated KG&E, Bechtel, Westinghouse, Sargent & Lundy, Constructor personnel, or Authorized Inspector, as appropriate. Test procedures will provide provisions for data collection and storage, acceptance and rejection criteria, and methods for documenting and recording the test results.

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The measures which these major contractors, Bechtel, Westinghouse, and the Constructor, have established are described in Sections 17A.1.11 and 17B.1.11 of the Standard Plant PSAR, and Section 17B.1.11 of this site addendum, respectively.

3.

KG&E, either individually or jointly through the SNUPPS organization, performs periodic audits to assure that test programs are properly established and implemented, test procedures are current and complete, test results are properly documented and evaluated, test documentation includes the appropriate information and results, acceptance status is identified by a knowledgeable individual or group, and the tests are performed under suitable environmental conditions.

In addition, Bechtel will periodically audit the testing activities of Westinghouse. The SNUPPS Quality Assurance Manager, on behalf of the SNUPPS utilities, will witness selected tests conducted by Bechtel, Westinghouse, and their suppliers.

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storage of equipment and material at the plant site are issued by Bechtel or Westinghouse. | 5.

The measures which these major contractors, Bechtel, Westinghouse, and the Constructor, have established are described in Sections 17A.1.13 and 17B.1.13 of the Standard Plant PSAR, and Section 17B.1.13 of this site addendum respectively.

KG&E, either individually or jointly through the SNUPPS organization, performs periodic audits to assess the adequacy of the quality assurance program of major contractors involved in the design and construction of the Wolf Creek Generating Station. These audits are the mechanism KG&E utilizes to assure that the measures which the major contractors have implemented to control the cleaning, handling, storage, shipping and preservation of materials and equipment are adequate.

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17.1.14 INSPECTION, TEST AND OPERATING STATUS

The KG&E quality assurance program requires identification of the inspection, test, and operating status of structures, systems, and components. Controls must be applied to individual items throughout the manufacturing and installation phases. Markings, such as stamps, tags, labels, routing cards or other suitable means, must be utilized for status indication.

KG&E and each major contractor is responsible to establish inspections, tests and operating status using approved procedures which include measures for:

- a. Identification of the inspection, test and operating status of structures, systems, and components throughout manufacturing and installation.
- b. Control of the use of inspection and welding stamps and status indicators, including the authority for application and removal of tags, markings, labels, and stamps.
- c. Control of bypassing required inspection, tests and other critical operations through documented measures.
- d. Identification of the status of nonconforming, inoperative or malfunctioning structures, systems, or components to prevent inadvertent use or erroneous operation.
- e. Providing notification of inspection, test, and operating status to affected organizations.

For status indication control of items within the standard Power Block at manufacturing and shop locations, Bechtel and Westinghouse, as applicable, shall implement a program for these controls.

For status-indication control of items outside the standard Power Block, the Constructor, as appropriate, shall implement a program for these controls. These controls will apply to items at manufacturing and shop fabrication locations, and to items received at the plant site.

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KG&E requires the Constructor to establish a quality assurance records system to control identification, accumulation, and storage of quality records which accompany equipment, material or components shipped to the plant site, or which are generated during the receipt, construction, installation or testing of plant structures, systems and components.

The Constructor provides for the orderly transfer of appropriate documents and records generated during the construction phase. | 8.

Quality assurance records in the possession of a contractor or supplier are accessible to KG&E or its agent.

Audits are the mechanism that KG&E utilizes to assure that the measures which the major contractors have implemented to control quality assurance records are adequate. KG&E requires that each major contractor establish provisions for auditing the implementation of their own quality assurance records activities. KG&E through their participation on the SNUPPS Quality Assurance Committee, performs audits on the SNUPPS organization. The SNUPPS organization performs audits on Bechtel. The responsibility has been delegated to Bechtel to periodically audit the quality assurance record activities of Westinghouse.

The KG&E Quality Assurance Division will periodically audit the implementation of their established quality assurance records systems, procedures and instructions. They will also audit the quality assurance records systems, procedures, and instructions of Sargent & Lundy and the Constructor. All the above audits will assess the adequacy of measures for controlling quality assurance records. In addition, these audits will include, but are not limited to: verification that accurate records are prepared and maintained, that required item identification exists, and that records are retrievable and suitably protected.

9. Identification of Change

Pages 17.1-51 and 17.1-52

Reason for Change

Wolf Creek Addendum Section 17.1-15 was revised to replace the SNUPPS organization's review of nonconformance disposition with a review by KG&E Engineering personnel. This change will become effective August 1, 1983.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

Although the KG&E review is done post-disposition, it will be done in a timely manner and accomplishes the same purposes as did the SNUPPS review in that one of the owner's engineering organizations reviews the A/E's disposition to (1) ensure agreement with that disposition and (2) become familiar with the nonconformance. KG&E therefore concludes that the revised program satisfies 10CFR50 Appendix B.

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Nonconforming items will be clearly identified as nonconforming and segregated in a hold area, as practical, until proper dispositioning is established and approved. Access to the items will be controlled and authority for any removal will be clearly specified. The Constructor will establish and implement controls for the disposition of nonconforming items.

Rework or repair of materials, parts, components, systems, and structures is reinspected on the basis of the same acceptance criteria as utilized for the original inspection method. These reinspections are performed in accordance with written work instructions and are documented.

A technical review of material nonconformance dispositioned "use as is" or "repair" is made by the same, or equivalent, organization that established the original design basis for the affected item. Recommendations for disposition of the nonconforming item are documented and supporting analyses or calculations are provided, where applicable.

The Manager Nuclear Plant Engineering will provide for a review of nonconformance reports which require disposition by the Lead A/Es home office design group. This review will take place after disposition by the Lead A/E and will be documented. Any concerns which develop from this review will be forwarded to the Lead A/E for resolution.

KG&E provides documented approval to the Constructor for releasing any nonconforming item for installation or construction when it has been repaired or designated "use as is".

Construction nonconformance reports are periodically reviewed by the KG&E QA organization to verify procedural compliance and identify adverse quality trends. Nonconformance trend information is submitted to the KG&E QA Committee.

9.

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| 9.

Periodic audits are conducted by the SNUPPS QA Committee and SNUPPS QA Manager to assess the adequacy of nonconforming materials control systems for SNUPPS activities. For audits of these control systems outside the scope of SNUPPS activities, the responsibility is assigned to the KG&E QA organization. These audits are in addition to those conducted by the Bechtel, Westinghouse, and the Constructor.

10. Identification of Change

Page 17.1-56

Reason for Change

The change reflects the fact that it is not necessary to have evidence of Bechtel or Westinghouse approval of their supplier's QA program included as part of equipment data packages.

Basis for Concluding that Revised Program Satisfies
10CFR50 Appendix B

Appendix B does not require that evidence of approval of supplier's QA program be submitted to the site as part of equipment data packages.

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17.1.17 QUALITY ASSURANCE RECORDS

The KG&E quality assurance program includes a quality assurance records system for the identification, accumulation and retention of quality records, which furnish documentary evidence of the acceptability of items and activities affecting quality.

KG&E and each major contractor implements a quality assurance records system. The measures for controlling quality assurance records which the major contractors, Bechtel, Westinghouse, Sargent & Lundy, and the Constructor, have established are described in Sections 17A.1.17 and 17B.1.17 of the Standard Plant PSAR and Sections 17A.1.17 and 17B.1.17 of this site addendum, respectively.

The KG&E quality assurance records system requires that sufficient records be maintained to furnish evidence of the quality of items and of activities affecting quality. The records will include at least the following: procurement documents, audit reports, results of design and procurement reviews, and documentation as defined in the SNUPPS Standard QA Manual, the SNUPPS Standard QA Procedures Manual or the KG&E Procedures Manual. The records also include data such as qualifications of personnel, procedures and equipment. Records are identifiable, retrievable and consistent with applicable requirements of ANSI N45.2.9.

KG&E has established a records system which controls record receipt, storage, and retention. The records system includes provisions for facilities for permanent records retention; identification of retention periods; steps taken to assure controlled access; preservation, protection from fire, flooding, theft and deterioration; storage records filing system and methods for verifying that records received agree with transmittal letters.

KG&E has specified through its participation in SNUPPS, the type of quality assurance records that are required and which must be delivered to the site for equipment furnished by Bechtel and Westinghouse. Such records will include, but are not necessarily limited to: certificates of conformance, purchase orders (unpriced), technical specifications, drawings and technical manuals and manufacturer's data reports (ASME items). Supplier Print Control Registers identify the approval status of supplier QA program manuals. Bechtel and Westinghouse provide for the orderly transfer of specified records to each utility QA organization through the SNUPPS organization.

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