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Kansas Gas and Electric
ATTN: Glenn L. Koester
Vice President-Nuclear
P.O. Box 208
201 North Market Street
Wichita, Kansas 67201

Gentlemen:

We have reviewed your application for receipt and storage of fresh fuel assemblies, fission chambers, and a fission counter. Additional information is required to allow us to complete our initial safety review for the materials requested. The required information is identified in the enclosure.

We will continue our review upon receipt of the requested information. Please contact us if you have any questions.

Sincerely,

Original signed by:
Barry L. Serini

Barry L. Serini
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure: Additional Information
Requested

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OFFICE	FCUP <i>BLS</i>	FCUP <i>NK</i>	FCUF <i>LT</i>	FCUP <i>WTC</i>			
SURNAME	BLSerini/cj	NKetzlach	LTyson	WTCrow			
DATE	11/17/82	11/25/82	11/29/82	11/1/82			

DEC 02 1982

Additional Information Required for Application to Receive, Possess and Store Special Nuclear Material at Wolf Creek Generating Station, Unit 1

1. Page 13, Section 1.1.3

Specify the maximum U-235 enrichment requested (including manufacturing tolerance). The nuclear criticality safety of your fuel assembly handling and storage should be based on the maximum U-235 enrichment.

2. Page 13, Section 1.2.1

Figure 1.2-2 in your application only gave the center-to-center spacing in one direction. Please provide us with the dimensions in both directions.

3. Page 14, Section 1.2.3

- a. Please specify the shape of the 66 fuel assemblies in the new fuel vault (e.g., 6 x 11 single array).
- b. Specify the k_{eff} of the assemblies in the new fuel vault when flooded with non-borated water and in the new fuel vault under conditions of optimum water mist moderation.
- c. Confirm that the fuel assemblies are stored only in "alternate rows" of the spent fuel pool rather than in the new fuel storage facility as stated on Page 14, Section 1.2.3 of your application. Confirm your definition of "alternate rows" includes the absence of fuel assemblies in all eight locations adjacent to each assembly.

3. Page 15, Section 1.2.3

- a. Specify the dimensions and thickness of the square guide tubes in each fuel storage location of the new fuel rack.
- b. Specify the maximum k_{eff} for an array of fuel assemblies in the spent fuel pool at optimum water mist density.
- c. Provide the quality assurance program that guarantees water fills all the permanent water boxes in the spent fuel pool whenever the pool contains fuel assemblies.
- d. Identify, by position, who is responsible for all fuel handling operations, including the approval of fuel handling and storage procedures and specify to whom he reports.
- e. Specify the controls that ensure there will be no fuel in the eight storage locations adjacent to each fuel assembly in the spent fuel pool.

4. Page 15, Section 1.2.3

- a. Specify the criteria for the temporary storage of the assemblies in their shipping containers prior to their removal and provide the basis for the nuclear criticality safety of the temporary storage.
- b. Confirm that there shall be no more than one fuel assembly outside its shipping container or storage rack at a given time or provide justification for having more than one assembly outside its shipping container or storage rack.

- c. Confirm there are at least 20 feet between storage arrays.
- d. Specify whether or not the stored fuel assemblies are wrapped in plastic. If they are, confirm the plastic wrappers are open at the bottom to allow free drainage of water (e.g., from a sprinkler under accident conditions).

5. Page 17, Section 2.1.1

- a. Identify to whom the Station Health Physicist Reports.
- b. Confirm the personnel handling fuel and the radiation control personnel will receive training in their assignments before being allowed to perform the related operations. Specify the training they receive and identify the position(s) of the person(s) performing the training.

6. Page 18, Section 2.1.2

- a. Specify the requirements for "dosimetry, protective clothing and health physics coverage" in your Radiological Work Permit.
- b. Specify your "site contamination limits."
- c. Identify the requirements for handling and packaging of the wastes generated in your decontamination activities.

7. Page 19, Section 2.2

Describe the method for storing "irreparable" fuel assemblies prior to shipping back to Westinghouse.

8. Page 19, Section 2.3

- a. Explain what prevents a dropped fuel assembly from occupying a position other than a normal spent fuel storage location.
- b. Describe the steel cover over the new fuel storage area (e.g., number of sections, areas covered). Include the maximum number of assemblies and rows uncovered at one time.

9. Page 20, Section 2.3

Identify the criteria that limit the supply of combustible material in the fuel storage areas.

10. Please indicate whether you apply for an exemption from the monitoring requirements of 10 CFR Part 70.24.