



GULF STATES UTILITIES COMPANY

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July 8, 1985
RBG- 21,472
File Code G9.5

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

Dear Mr. Denton:

River Bend Station - Unit 1
Docket No. 50-458

Gulf States Utilities Company (GSU) is preparing a tax exempt bond financing for additional pollution control facilities at its River Bend Station (RBS). In our letter of September 19, 1984 we requested you to certify that the equipment described in its attachment is in furtherance of the purpose of abating or controlling atmospheric pollutants or contaminants or water pollutants resulting from the generation of electricity at RBS. You reviewed our request and provided the certification with your letter of December 12, 1984.

We now request that you provide a similar certification for the additional radioactive pollution control equipment that was not included in the original financing and which is described in the attachment to this letter. For your convenience we have attached a certificate form for your signature. Please review the attachments, and if you agree, sign and return the certificate to GSU as soon as practicable. Should you have any questions, please contact Mr. Bill Reed of my staff at (409) 839-2882.

Sincerely,

W. J. Cahill, Jr.
Senior Vice President
River Bend Nuclear Group

WJR/JEB/WJR/JWC/kt

Attachments

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Docket No. 50-458

CERTIFICATE

RIVER BEND STATION UNIT 1

POLLUTION CONTROL FACILITIES

The Nuclear Regulatory Commission hereby certifies as follows:

- (a) that is has examined exhibits, attached hereto, which describe certain facilities which have been constructed, which are under construction, or which are to be constructed at the River Bend Station Unit 1, a nuclear electric generating plant located 25 miles north of Baton Rouge, Louisiana, near the Mississippi River; and
- (b) that such facilities, as designed, are in furtherance of the purpose of abating or controlling atmospheric pollutants or contaminants or water pollutants resulting from the generation of electricity at the River Bend Station Unit 1.

For the Nuclear Regulatory Commission

Harold R. Denton, Director
Office of Nuclear Reactor Regulation

Date: _____

1. Containment and Drywell Purge System

The containment and drywell purge system collects and treats exhaust air from the containment building in accordance with the requirements of ALARA. The system includes the containment and drywell purge exhaust filter (previously financed as an air pollution control facility) as well as associated equipment necessary to the operation of the filter.

Containment and drywell atmosphere is collected by exhaust ducts and transferred to the filter. The exhaust collection system also includes dampers, fans, valves, plenums, controls and instrumentation. In passing through the filter, airborne radioactive contamination is removed from the exhaust air. After filtration, the exhaust air is transferred to the auxiliary building vent for release. The air pollution facility includes only those ducts and associated equipment which serve to transport exhaust air to and from the containment and drywell purge filter.

2. Liquid Radwaste System

Additional liquid radwaste equipment is to be provided in the plant's liquid radwaste system. The new equipment will serve the same function as the portions of the liquid radwaste system previously identified and financed as a water pollution control facility. The additional equipment is being provided to improve the operation and reliability of the liquid radwaste system. This has been determined necessary as a result of pre-operation design reviews.

Equipment being added includes one radwaste filter/demineralizer train, an oil separator and a chemical drain collection system. The addition of the new filter/demineralizer train will allow separate processing of equipment and floor drainage since two such filter/demineralizers will be available. Furthermore, it allows processing of liquid radwaste if one train is out of service.

The new oil separator is being added to remove waste oil from the floor drainage. This is necessary to improve the operation of the floor drain filter/demineralizer.

The new equipment also includes a chemical tank, one pump, associated piping, valves, controls and instrumentation. Using this subsystem, liquid wastes containing chemicals will be separately collected and processed.

3. Liquid Radwaste Equipment Drains

The existing liquid radwaste system has two parallel drainage systems: equipment and floor drains. The equipment drains are added for the purpose of separating, treating and recycling equipment drainage related to liquid radwaste in accordance with ALARA practice.

Portions of these equipment drains have been previously identified and financed as exempt facilities. Included here are the remaining equipment drains, primarily located in the turbine building which were not previously identified.

The turbine building equipment drain system collects turbine equipment drainage including pump casings, valves steam leakoff, relief valves and other similar equipment. The system consists of associated equipment drains, piping and sumps. After sampling in the sumps, the equipment drainage is forwarded by sump pumps to liquid radwaste processing or to recycle.

Contamination of equipment drainage with relatively dirty floor drainage is prevented. This allows for maximum re-use of equipment drains within the plant and thus reduces the quantity of liquid which must be processed and released from the plant. The system is designed such that there is no potential for inadvertent transfer of equipment drainage to floor drain systems or storm drainage systems.

4. Spent Fuel Pool Cooling Piping

In addition to the scope of equipment previously financed, the fuel pool cooling piping is identified here as functionally related and subordinate to the spent fuel storage system.

The spent fuel storage facility provides long term storage of spent nuclear fuel and fuel assemblies in an onsite spent fuel pool. The fuel pool cooling system is functionally related and subordinate to the spent fuel storage facility.

The fuel pool cooling piping includes interconnecting pipe between the condensate storage tank, heat exchangers and fuel pool.

5. Environmental Monitoring Facility

The environmental monitoring facility is used to collect and analyze air, soil, water and vegetation samples. This is necessary for design of the exempt facilities (Liquid and Gaseous Radwaste) as well as for establishing their proper operation or establishing the need for corrective action.

The environmental monitoring facility includes a central laboratory as well as field equipment. The laboratory houses analytical instruments, appliances, sample preparation equipment, sinks, benches, and other lab related equipment. Field equipment includes environmental sampling equipment used for collecting offsite samples and transporting them to the laboratory for analysis.