



GULF STATES UTILITIES COMPANY

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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

Enclosed is the description of the Offsite Fire Department Training Program which addresses Safety Evaluation Report (SER) Confirmatory Item #58 (Section 13.2.1, Page 13-6). In addition, the Fire Brigade Training Program description has been revised to distinguish between the classroom instruction and field exercise elements.

The enclosed River Bend Station (RBS) Final Safety Analysis Report (FSAR) pages have been revised to include the above referenced training programs and will be incorporated in a future amendment.

Sincerely,

William J. Reeb Jr.
for J. E. Booker
Manager-Engineering
Nuclear Fuels & Licensing
River Bend Nuclear Group

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JEB/JR/JWL/je

Enclosure

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RBS FSAR

1. Employees designated to be members of the station fire brigade
2. Employees assigned to the fire protection staff
3. Offsite fire departments

Specific training requirements for each of the above categories of personnel are as described in the following sections.

13.2.1.1.11.1 Fire Brigade Training (B4) - 1 Week

All personnel assigned to be designated as fire brigade members receive formal training prior to fuel load. The course subject matter is selected to satisfy the requirements of Regulatory Guide 1.120 and the NRC document "Nuclear Plant Fire Protection Functional Responsibilities, Administrative Controls, and Quality Assurance." In addition, course material selection also includes the guidance of NEPA Codes 801, 802, and 803. The instruction period of 1 week consists of approximately one-half classroom and one-half practical applications. Specific course and lesson plans for both onsite and offsite training programs are being developed.

Course material includes the following:

1. Chemistry of fire
2. Classification of fires and principles of extinguishment
3. Fire prevention and inspection techniques
4. Fire protection systems - tailored to systems of interest at the River Bend Station
5. Respiratory protection equipment - use and maintenance
6. Radiological safety aspects of fires at nuclear facilities - survey and contamination control
7. Fire brigade command and control - evaluation and direction
8. Field exercises

Insert For Page 13.2-28

Personnel assigned as fire brigade members receive formal training prior to assuming brigade duties. The course subject matter is selected to satisfy the requirements of Regulatory Guide 1.120 (see Section 1.8 for clarification), Branch Technical Position CMEB 9.5-1 and the NRC document "Nuclear Plant Fire Protection Functional Responsibilities, Administrative Controls, and Quality Assurance." In addition, course material selection also includes guidance from NFPA Codes 801, 802 and 803. The instruction which includes both classroom instruction and field exercises is taught offsite and onsite.

Course material includes the following classroom instruction:

1. Chemistry of fire.
2. Classification of fires and principles of extinguishment.
3. Fire prevention and inspection techniques.
4. Fire protection systems
5. Radiological safety aspects of fires at nuclear facilities
6. Indoctrination of plant firefighting plans with specific identification of individual responsibilities.
7. Identification of the type and location of fire hazards and associated types of fires that could occur in the plant.
8. The toxic and corrosive characteristics of expected products of combustion.
9. Identification of the location of firefighting equipment for each fire area and familiarization with the layout of the plant, including access and egress routes.
10. The proper use of available firefighting equipment and the correct method of fighting each type of fire. The types of fires include fires in energized electrical equipment, fires in cables and cable trays, hydrogen fires, fires involving flammable and combustible liquids or hazardous process chemicals, fires resulting from construction or modifications (welding) and record file fires.
11. The proper use of communication, lighting, ventilation and emergency breathing equipment.
12. The proper method for fighting fires inside buildings and confined spaces.
13. The direction and coordination of firefighting activities (fire brigade leaders only).
14. Detailed review of firefighting strategies and procedures.
15. Review of the latest plant modifications and corresponding changes in fire-fighting plans.

Items 14 and 15 above may be deleted from the training of nonoperations personnel who may be assigned to the fire brigade.

Field exercises are conducted which reinforce the classroom training and provide an opportunity to practice the skills learned. These exercises include:

1. Fighting small fires with portable fire extinguishers.
2. Interior fire fighting using breathing apparatus.
3. Controlling incidents involving flammable gases or pressurized liquid fuels.
4. Fighting large flammable liquid fires using hose lines and/or foam.
5. Fighting flammable liquid fires inside building.

- a. Electrical fires, including transformers and cable trays
- b. Flammable gas and liquid fires
- c. Waste/debris fires
- d. Pressurized fuel storage tank fires, techniques to control, and source shutoff
- e. Spill fires
- f. Industrial fire hose and nozzles
- g. Portable extinguisher on small fire
- h. Fuel transfer pump fire
- i. Breathing apparatus use in confined, smoke-filled structure
- j. Multilevel structural fire, including rescue and recovery
- k. Firefighting with radioactive contamination, including rescue and decontamination

Onsite Fire Brigade Training

The onsite fire brigade training program ensures that the capability to fight potential fires is established and maintained. The program consists of an initial classroom instruction program followed by periodic classroom instruction, firefighting practice, and fire drills:

1. Instruction

Initial classroom instruction includes:

- a. Indoctrination of the plant firefighting plan with specific identification of each individual's responsibilities.
- b. Identification of the type and location of fire hazards and associated types of fires that could occur in the plant.
- c. The toxic and corrosive characteristics of expected products of combustion.

- d. Identification of the location of fire-fighting equipment for each fire area and familiarization with the layout of the plant, including access and egress routes to each area.
- e. The proper use of available firefighting equipment and the correct method of fighting each type of fire. The types of fires covered should include fires in energized electrical equipment, fires in cables and cable trays, hydrogen fires, fires involving flammable and combustible liquids or hazardous process chemicals, fires resulting from construction or modifications (welding), and record file fires.
- f. The proper use of communication, lighting, ventilation, and emergency breathing equipment.
- g. The proper method for fighting fires inside buildings and confined spaces.
- h. The direction and coordination of the firefighting activities (fire brigade leaders only).
- i. Detailed review of firefighting strategies and procedures.
- j. Review of the latest plant modifications and corresponding changes in firefighting plants.

NOTE: Items (i) and (j) may be deleted from the training of nonoperations personnel who may be assigned to the fire brigade.

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The instruction is provided by qualified individuals who are knowledgeable, experienced, and suitably trained in fighting the types of fires that could occur in the plant and in using the types of equipment available in the nuclear power plant at River Bend Station.

Instruction is provided to fire brigade members and fire brigade leaders.

13.2.1.1.11.2 Fire Protection Staff Training (B5)

The station fire protection staff receives training in:

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classroom instruction and field exercises are

RBS FSAR

1. Design and maintenance of fire detection, suppression, and extinguishing systems
2. Fire prevention techniques and procedures
3. Firefighting techniques and procedures for plant personnel and the fire brigades.
4. Hazards material identification and handling

Specific courses to achieve the above training objectives will be provided for the Performance Supervisor and System Engineers assigned to the fire protection staff if they are not fully trained when hired. These courses are available from the Louisiana State University Fireman Training Center and will be attended as necessary by these individuals. during 1984. Other training organizations may be used to provide this training on a case-by-case basis.

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13.2.1.1.11.3 Offsite Fire Department Training (B6)

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Training for offsite fire departments includes basic radiation principles and practices, typical radiation hazards that may be encountered, and procedures.

GSU plans to utilize General Physics Corporation (or other training organizations) to conduct this training. Specific course material has not been developed at this time, but will be provided in a future amendment.

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13.2.1.2 Coordination with Preoperational Tests and Fuel Load

On-the-job training for plant staff personnel, including reactor and senior reactor operator license candidates, commences with the preoperational test program. During periods when members of the plant staff are not engaged in formal classroom exercises, they are utilized by the Startup and Test group, through their respective supervisor, for such operations as component testing, system flushing, system lineups and checkouts, functional tests, etc.

The RBS staff reviews operating procedures, system descriptions, emergency plans, etc.

Documentation of the participation of cold license candidates will be maintained in accordance with Training Department documentation procedures.

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Training for offsite fire departments is provided to make members aware of the need for radiological protection of personnel, the special hazards associated with River Bend Station, and the operational precautions to be followed when fighting fires at RBS.

The course is provided annually and includes instruction in:

1. Basic radiation protection, including the use of personal dosimetry devices
2. Plant familiarization, including hazards and fire protection systems
3. Fire-fighting procedures, including entry to and exit from the plant