GULF STATES UTILITIES COMPANY

June 26, 1985
RBG- 21,389
File No. 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

The final rule for combustible gas control was published in the Federal Register on January 25, 1985. The rule requires that a hydrogen control system justified by a suitable program of testing and analysis be provided in Mark III containment plants such as River Bend Station. The rule also requires that applicants develop and submit a proposed schedule for meeting the requirements of the final rule (10 CFR 50.44, paragraphs (c)(3)(iv), (v), and (vi)).

GSU is a member of the Hydrogen Control Owners' Group and is actively supporting completion of the program elements described in the HCOG Hydrogen Control Program Plan (submitted to the NRC on December 14, 1985). GSU's proposed schedule for complying with the hydrogen rule as it applies to the River Bend Station is attached. This schedule shows proposed completion dates for the generic tasks as well as River Bend Station - specific activities. As shown, a hydrogen control system for the River Bend Station has been designed, installed, and tested.

The final rule also requires that analysis which supports the design of the hydrogen control system be submitted to the Nuclear Regulatory Commission. As delineated in 10 CFR 50.44 paragraph (c)(3)(vii)(B), final analyses are not necessary provided that preliminary analysis which supports interim operation at full power are supplied. As shown in the attached schedule, RBS's containment ultimate pressure capacity analysis and containment response to hydrogen burns (CLASIX-3) analysis are complete and have been supplied previously. A list of equipment required to survive a hydrogen burn and a preliminary equipment survivability analysis of postulated hydrogen combustion within the RBS containment will be submitted by July 1, 1985. These analyses support a decision to allow interim operation of River Bend Station at full power.

The schedule supplied herein satisfies the requirements of 10 CFR 50.44 (c)(3)(vii). It should be noted that this schedule has been developed based upon tentative agreements with the NRC staff on the Hydrogen Control Owners' Group program tasks. If any changes in the scope of these tasks are required by the staff, this schedule may require revisions.

Sincerely,

J. E. Booker

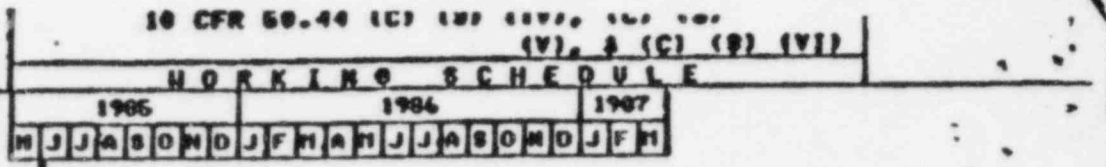
J. E. Booker
Manager - Engineering
Nuclear Fuels & Licensing
River Bend Nuclear Group

JMG/LDI/PAM/ks

Attachment

ATTACHED TO: RBG-21389

10 CFR 50.44 (C) (3) (iv), (v), & (C) (3) (vi)



NOTE: THIS SCHEDULE IS BASED ON CURRENT UNDERSTANDING OF AGREEMENTS ACHIEVED WITH THE NRC STAFF ON HCOG PROGRAM PLAN TASKS AND IS SUBJECT TO REVISION. IF SUBSTANTIAL CHANGES ARE REQUIRED TO THOSE TASKS.

ESTABLISH HYDROGEN GENERATION EVENT

SELECT MITIGATION SYSTEM

DEVELOP GENERIC HYDROGEN IGNITER TECHNICAL SPECIFICATIONS.

DESIGN, INSTALLATION AND TESTING OF RBS HYDROGEN IGNITER SYSTEM

CONTAINMENT ULTIMATE CAPACITY ANALYSIS

SELECT CONTAINMENT RESPONSE ANALYSIS CODE

HYDROGEN COMBUSTION TESTING (EXCLUDE 1/4 SCALE TEST)

GENERATION OF HYDROGEN RELEASE HISTORIES

RBS CONTAINMENT RESPONSE ANALYSIS

CONTAINMENT RESPONSE ANALYSIS

1/4 SCALE MODEL TEST PROGRAM

BRYWELL RESPONSE EVALUATION

RBS PRELIMINARY SURVIVABILITY ANALYSIS

EQUIPMENT SURVIVABILITY ANALYSIS PROGRAM

VALIDATION OF ANALYTICAL METHODS

GENERIC COMBUSTIBLE GAS CONTROL EPG
NOTE: CURRENT RBS EOP'S PROVIDE OPERATOR INSTRUCTION FOR RBS IGNITER SYSTEM INITIATION.

NEVADA TEST SITE DATA EVALUATION

LEGEND: DIAMOND = COMPLETE FOR RBS

ATTACHMENT B

SEISMIC MARGINS
FOR TYPICAL DECAY HEAT REMOVAL
AND AC AND DC EQUIPMENT POWER SUPPLIES

TYPE	EQUIPMENT ID	DESCRIPTION	MIN MARGIN OF SAFETY
1	1E12*MOV087A,B 1E12*MOV47A,B	MOTOR-OPERATED VALVE WITH LIMITORQUE ACTUATOR	500%
2	1ENB*BAT01A,B	BATTERIES AND BATTERY RACKS	616%
3	1RHS*RTD55A,B 1RHS*RTD47A,B	THERMOCOUPLES	900%
4	1RHS*LT119	PRESSURE TRANSMITTER	450%
5	1ENS*SWG1A,B	4.16kv SWITCHGEAR	675%
6	1E12*PVF051A,B	4"-900# GLOBE CONTROL VALVE	453%
7	1E12*RVF025A,B	RELIEF VALVE	> 900%
8	1EHS*MCC2A,B,C,D	MOTOR CONTROL CENTER	300%

(2)

ADDITIONAL STRUCTURAL DESIGN MARGINS

	MARGIN OF SAFETY
CAT 1 CABLE TRAY/SUPPORTS	250%
SMALL BORE PIPE/SUPPORTS	350%
INSTRUMENT SUPPORTS	300%