Apr 10, 1979

Distribution w/enclosure 1 only:
Docket Files (STN 50-483/486)
NRC PDR
Local PDR
NRR Reading
EDO Reading
LWR #3 File
H. Denton
E. Case
R. Boyd
Attorney, ELD
CA (3)
G. Ertter (#05613)
M. Groff
E. Hughes
B. Moore
O. Parr
E. Licitra
M. Rushbrook
D. Vassallo
J. Yore, ASLB
IE (3)
SECY Mail Facility (3) (79-0426)
J. Cook
D. Bunch
R. DeYoung
V. Stello
R. Mattson
D. Ross

The Honorable Thomas F. Eagleton
United States Senate
Washington, D. C. 20510

Dear Senator Eagleton:

In accordance with your request of March 7, 1979, I am pleased to provide you with the information you requested regarding the Callaway plant which is under construction in Callaway County, Missouri.

In your letter you state that you recently received a letter from a Mr. Richard Lauf regarding a number of concerns which you have not identified. However, you do state that Mr. Lauf is interested in having a report on the progress of the Callaway plant. You also request a summary of the Nuclear Regulatory Commission's (NRC) involvement with the Callaway plant which can be provided for Mr. Lauf's information.

In response to your request, we are providing the information requested in two separate enclosures, which are attached, so that you may provide them as information in your response to Mr. Lauf's letter. The first enclosure, entitled "Summary of Progress of Callaway Plant," provides summary information on the Callaway plant, including a brief description of the plant, the key milestone dates for our involvement in the review of the construction permit application, the status of construction, the plans for submittal of an application for operating licenses, and the role of the NRC inspection and enforcement program during construction and operation of a nuclear power plant. The second enclosure, entitled "The Reactor Licensing Process", provides more detailed information regarding the NRC's role in the licensing and regulation of nuclear power plants.

Thank you for the opportunity to provide this information in response to your request. If you would like further information on the Callaway plant, please let us know.

Sincerely,

7905020210

2072 155

Enclosures:
1. Summary of Progress of Callaway Plant
2. The Reactor Licensing Process

	LWR #3:BC	LWR:AD	OELD
	*ODParr	*DBVassallo	
*SEE PREVIOUS YELLOW FOR CONCURRENCES	3/ 23/ 79	3/23/79	3/27/79

OFFICE	LWR #3:LPM	DD:DPM	D:DPM	DD:NRR	D:NRR	OCA
SURNAME	ELicitra/LLM	DRoss	RSBoyd	EGCase	HDenton	
DATE	3/ 29 /79	3/ /79	3/ /79	3/ /79	3/ /79	3/ /79

ENCLOSURE 1

SUMMARY OF PROGRESS OF CALLAWAY PLANT

The Callaway Plant, Units 1 and 2, which is under construction in Callaway County, Missouri, is one of the four Standardized Nuclear Unit Power Plant System (SNUPPS) standard plants which were reviewed under the NRC's standardization policy using the duplicate plant option. The other three SNUPPS plants are Wolf Creek (Coffey County, Kansas), Tyrone (Dunn County, Wisconsin) and Sterling (Cayuga County, New York). The duplicate plant option allows for a simultaneous review of the safety-related parameters of a limited number of duplicate plants which are to be constructed within a limited time span at a multiplicity of sites. The Union Electric Company is the applicant for the Callaway application.

A common SNUPPS Preliminary Safety Analysis Report (PSAR) was submitted in support of the applications for the four SNUPPS plants. The SNUPPS PSAR describes the standard portion of each plant, including the nuclear steam supply system and associated support systems and structures up to and including the steam and power conversion system. The nuclear steam supply system for each unit will be a four loop pressurized water reactor, rated at 3425 thermal megawatts (1150 electrical megawatts), to be supplied by the Westinghouse Electric Corporation (RESAR-3 Consolidated Version). The architect/engineer for the standard portion of the SNUPPS plants outside the scope of the nuclear steam supply system is the Bechtel Power Corporation. The General Electric Company will supply the turbine generator for each unit.

A separate PSAR Addendum Report was also submitted in support of the Callaway application. The PSAR Addendum Report describes the portions of the plant outside the scope of the SNUPPS PSAR (i.e., site-related and applicant-related aspects, such as offsite power, ultimate heat sink and emergency planning). In addition, an Environmental Report was submitted providing an evaluation of the environmental impact of the Callaway plant.

A description of the Reactor Licensing Process, which was followed for the construction permit review of the Callaway plant, is provided in Enclosure 2. The key milestone dates for the review of the Callaway plant application are as follows:

Application Docketed	-	06/21/74
Draft Environmental Statement Issued	-	10/23/74
Final Environmental Statement Issued	-	03/21/75
Limited Work Authorization Issued	-	08/14/75
Safety Evaluation Report Issued	-	08/07/75
Supplements to Safety Evaluation Report Issued	-	11/21/75, 01/23/76
Construction Permits Issued	-	04/16/76

All of the above documents are available for public inspection at the NRC's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, at the Fulton City Library, 709 Market Street, Fulton, Missouri 65251, and at the Olin Library of Washington University, Skinker and Lindell Boulevards, St. Louis, Missouri 63130.

Currently, the construction of Unit 1 of the Callaway plant is about 30 percent complete. Construction of Unit 2 has been postponed because of financial considerations. The Union Electric Company plans to submit its application for operating licenses in the fall of 1979. At that time, the NRC staff will perform a detailed review of the application to determine if operating licenses should be granted. This review process is also discussed in the attachment.

Through its inspection and enforcement program, the NRC maintains surveillance over construction and operation of a plant throughout its lifetime to assure compliance with NRC regulations for the protection of public health and safety and the environment. In the case of Callaway, inspections have been, and will continue to be, held on a frequent basis. These inspections have included the inspection of the construction activities at the site, inspection of design activites at the office of the contractors and primary vendors and the inspection of the implementation of the quality assurance programs of the applicant and its contractors and primary vendors. Many of these inspections are unannounced. The reports of these inspections are also available for public inspection at the Public Document Rooms discussed above.

E Hayden
Jeanne Cook

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAR 26 1979

E.

The Honorable Clarence A. Miller
United States House of
Representatives
Washington, D. C. 20515

Dear Congressman Miller:

We are pleased to respond to the inquiry of Mr. Thomas J. Harriel, III which you transmitted to us by memorandum dated February 24, 1979. We hope that this letter satisfactorily responds to his concerns.

The standards and criteria established by the Nuclear Regulatory Commission for the evaluation of proposed nuclear power plants include provisions for substantial conservatisms in design and operating safety margins. Through the licensing process these are implemented in the design, construction, and operation of nuclear power plants such that their operation should pose no undue risk to the public health and safety. It is recognized, however, that no body of knowledge can ever be so complete as to reduce uncertainties and risks to zero. The Commission has, therefore, adopted a policy of prudence in this regard and taken certain additional steps to establish a reasonable state of preparedness for coping with emergency situations. These steps include emergency planning requirements which must be met and maintained by licensees, backed up by planning at the Federal, State and local levels of government.

In answer to Mr. Harriel's particular questions, the Commission's Reactor Site Criteria require that due consideration be given to the population distribution and land use in the environs of a nuclear power plant. These have led to improved safety features to mitigate the consequences of accidents and to provisions for assuring that any risk due to nearby industrial hazards is acceptably small. In addition, we require each utility applicant to submit for Commission approval procedures for notifying, and agreements reached with local, State and Federal officials and agencies for the early warning of the public and for public evacuation, or other protective measures should such warning, evacuation, or other protective measures become necessary or desirable.

Every operating nuclear power plant must have a physical protection system and security organization which will provide a high degree of protection against successful industrial sabotage from two types of threats: (1) a determined, violent, external assault, attack by stealth, or deceptive actions carried out by several persons, assisted by an insider; and (2) an internal threat of an insider, including an employee in any position. The Commission sets the requirements for an acceptable physical security program, reviews the adequacy of each

DUPE 2072 158
7905090152

program, and periodically inspects each nuclear power plant to determine whether licensees are complying with Commission requirements and to identify any safeguard weaknesses. By these means, the plant is protected against deliberate acts which could directly or indirectly endanger the public health and safety by exposure to radiation.

These brief responses highlight a few of the Nuclear Regulatory Commission activities which are relevant to the inquiry from Mr. Harriel. Somewhat more detailed information is contained in our recently published Annual Report 1978, which is enclosed. You may wish to forward it to Mr. Harriel. Thank you for this opportunity to respond to this expression of interest and concern.

Sincerely,

(Signed) T A Rehm

Lee V. Gossick
Executive Director
for Operations

Enclosure:
Annual Report 1978

Distribution: H. Denton
E. Case
R DeYoung
W. Kreger
R. Houston
G. Chipman
G. Ertter (EDO 05567)
M. Groff
P. LaGrange
C. Paul
E. Hayden
D. Bunch
R. Boyd
R. Mattson
V. Stello
R. VanNiel

Distribution:
SECY Mail FAC (3) (79-0384)
OCA (3)
Courtesy Copy
NRC PDR
Local PDR
Central File
NRR Reading File
AAB Reading File
SA Reading File

. EDO	ONRR	*DOR
LGossick	HDenton	RClark
3/ /79	3/ /79	3/19/79

*See attached yellow for previous concurrence

OFFICE	*AAB/DSE	*AAB/DSE	*AAB/DSE	*ELD	*AAD/SA	*DSE
SURNAME	RVANNIEL/cnl	GCHIPMAN	RHOUSTON		WKREGER	RDEYOUNG
DATE	3/16/79	3/16/79	3/16/79	3/16/79	3/19/79	3/19/79

NRC FORM 318 (9-76) NRCM 0240 ☆ U.S. GOVERNMENT PRINTING OFFICE: 1978 - 265 - 769