

March 3, 1994

Docket Nos. 50-482
and 50-483

Mr. Neil S. Carns
President and Chief Executive Officer
Wolf Creek Nuclear Operating Corporation
Post Office Box 411
Burlington, Kansas 66839

Mr. Donald F. Schnell
Senior Vice President - Nuclear
Union Electric Company
Post Office Box 149
St. Louis, Missouri 63166

DISTRIBUTION

Docket File	MRushbrook
NRC & Local PDRs	RWharton
PDIV-2 R/F	OGC
JRoe	ACRS (10)
EAdensam	LYandell, RG-IV
EPeyton	EGreenman, RG-III
WReckley	
JZwolinski	
JHannon	

Gentlemen:

SUBJECT: WOLF CREEK GENERATING STATION AND CALLAWAY PLANT - STEAM GENERATOR
SNUBBER ELIMINATION PROGRAM

On December 9, 1993, members of the NRC staff met with representatives of Wolf Creek Nuclear Operating Corporation, Union Electric Company, and licensee contractors to discuss the planned elimination of steam generator hydraulic snubbers at Wolf Creek and Callaway. Some staff questions regarding the design basis analyses associated with the replacement of the hydraulic snubbers were not addressed at the meeting. As committed to at the meeting, the staff has developed the attached request for additional information. A followup meeting or conference call can be scheduled if necessary.

The reporting requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under Public Law 96-511.

Sincerely,

Original Signed By

William D. Reckley, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Original Signed By

L. Raynard Wharton, Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

070046

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

OFFICE	PDIV-2/LA	PDIV-2/PM	PDIII-3/PM	PDIII-3/D	PDIV-2/D
NAME	EPeyton	WReckley	RWharton	JHannon	SBlack
DATE	2/25/94	2/28/94	2/25/94	3/1/94	3/3/94
COPY	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO

FILENAME: G:\SGSNUB.RAI

9403080262 940303
PDR ADOCK 05000492
P PDR

NRC FILE CENTER COPY

cc w/enclosure:

Jay Silberg, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N Street, NW
Washington, D.C. 20037

Mr. C. John Renken
Policy and Federal Department
Missouri Public Service Commission
P. O. Box 360
Jefferson City, Missouri 65102

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P. O. Box 311
Burlington, Kansas 66839

Chief Engineer
Utilities Division
Kansas Corporation Commission
1500 SW Arrowhead Road
Topeka, Kansas 66604-4027

Office of the Governor
State of Kansas
Topeka, Kansas 66612

Attorney General
1st Floor - The Statehouse
Topeka, Kansas 66612

County Clerk
Coffey County Courthouse
Burlington, Kansas 66839

Mr. Gerald Allen
Public Health Physicist
Bureau of Air & Radiation
Division of Environment
Kansas Department of Health
and Environment
Forbes Field Building 283
Topeka, Kansas 66620

Mr. Otto Maynard
Vice President, Plant Operations
Wolf Creek Nuclear Operating Corporation
P. O. Box 411
Burlington, Kansas 66839

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Mr. Kevin J. Moles
Manager Regulatory Services
Wolf Creek Nuclear Operating Corporation
P. O. Box 411
Burlington, Kansas 66839

U.S. Nuclear Regulatory Commission
Resident Inspectors Office
8201 NRC Road
Steedman, Missouri 65077-1302

cc w/enclosure:

Cermark Fletcher Associates
18225 Flower Hill Way #A
Gaithersburg, Maryland 20879-5334

Gerald Charnoff, Esq.
Thomas A. Baxter, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, N.W.
Washington, D.C. 20037

Mr. S. E. Sampson
Supervising Engineer,
Site Licensing
Union Electric Company
Post Office Box 620
Fulton, Missouri 65251

U.S. Nuclear Regulatory Commission
Resident Inspectors Office
8201 NRC Road
Steedman, Missouri 65077-1302

Mr. Alan C. Passwater, Manager
Licensing and Fuels
Union Electric Company
Post Office Box 149
St. Louis, Missouri 63166

Manager - Electric Department
Missouri Public Service Commission
301 W. High
Post Office Box 360
Jefferson City, Missouri 65102

Regional Administrator
U.S. NRC, Region III
801 Warrenville Road
Lisle, Illinois 60523-4351

Mr. Ronald A. Kucera, Deputy
Director
Department of Natural Resources
P. O. Box 176
Jefferson City, Missouri 65102

Mr. Neil S. Carns
President and Chief
Executive Officer
Wolf Creek Nuclear Operating
Corporation
P. O. Box 411
Burlington, Kansas 66839

Mr. Dan I. Bolef, President
Kay Drey, Representative
Board of Directors Coalition
for the Environment
6267 Delmar Bopulevard
University City, Missouri 65130

Mr. Donald F. Schnell
Senior Vice President - Nuclear
Union Electric Company
Post Office Box 149
St. Louis, Missouri 63166

REQUEST FOR ADDITIONAL INFORMATION
WOLF CREEK GENERATING STATION AND CALLAWAY PLANT
STEAM GENERATOR SNUBBER ELIMINATION PROGRAM

- 1) Because the coupled building/loop model used in the analysis considers a fixed base, the staff questions the validity of applying the free field time-history input motions at the top of the foundation mat. In order to account for the effects of soil-structure interaction (SSI), the time-history response motions obtained at the top of the foundation mat, instead of the free-field motions, should be used as input motions to the building/loop mathematical model. Please provide a response to the above position which, if necessary, includes justification for the use of the free field time-history input motions.

- 2) It was stated that the compression bumpers are modelled as gap elements in the analysis. The licensees should verify the capability of the computer code used for the analysis in its treatment of bumper impact when the bumpers are in the compression mode. If the analysis involves assigning a value for a coefficient of restitution for the impact effects, the licensees should provide information regarding parametric studies for the effects of assumed coefficients of restitution on system responses and justification for the values assumed in the analyses.