

December 30, 2003

MEMORANDUM TO: Edwin M. Hackett, Project Director
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Pao-Tsin Kuo, Program Director */RA/*
License Renewal and Environmental Impacts
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: COST-BENEFICIAL SEVERE ACCIDENT MITIGATION ALTERNATIVES
(SAMA) IDENTIFIED DURING THE LICENSE RENEWAL REVIEW FOR
H.B. ROBINSON STEAM ELECTRIC PLANT, UNIT 2

The License Renewal and Environmental Impacts Program is referring the two cost-beneficial SAMAs that were identified during the environmental portion of the license renewal review for the H.B. Robinson Steam Electric Plant, Unit 2 (Robinson) to Project Directorate II for resolution. Chapter 5 and Appendix G of the attached NUREG 1437 "Supplement 13, to the Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Regarding H.B. Robinson Steam Electric Plant, Unit No. 2" (SEIS) contain the analysis that identified the two cost-beneficial SAMAs. These two cost-beneficial SAMAs are not related to aging management and, therefore, were not within the scope of 10 CFR Part 54, the license renewal rule. Since the SAMAs were not within the scope of the license renewal rule, the staff did not require Carolina Power and Light Company (CP&L), the licensee for Robinson, to implement the cost-beneficial SAMAs during license renewal. CP&L has not committed to implement these two SAMAs. However, CP&L has indicated informally that these two SAMAs have been placed on a list of potential plant modifications and are scheduled to be considered for implementation at Robinson.

The cost beneficial SAMAs that were identified during the review are:

- Replacement of the cast-iron yokes on two residual heat removal system (RHR) valves with materials that would have a greater capability to withstand seismic activity.
- Installation of a radiant heat shield on the electrical conduit to the shutdown diesel generator.

These two SAMAs were not identified by CP&L; they were identified by the Probabilistic Safety Assessment Branch during review of the SAMA analysis presented by CP&L in the license renewal application for Robinson. In the SEIS, the staff concluded that these two SAMAs are cost-beneficial. The RHR valve yoke replacement was judged cost-beneficial depending on the assumed seismic hazard estimates and the particular outage in which the modification would be installed. There were no caveats on the staff's cost-beneficial conclusion in the SEIS for the radiant heat shield.

E. Hackett

2

Mr. Robert Palla of the Probabilistic Safety Assessment Branch (SPSB) performed the review and should be consulted for any additional information regarding the cost-beneficial SAMAs. If you have any other questions concerning this matter, please contact the environmental project manager for the Robinson license renewal project, Rich Emch, at 301-415-1590.

Docket No.: 50-261

Attachment:
Supplement 13 to NUREG-1437, **(ML033430375)**

cc: w/o attachment

E. Hackett

2

Mr. Robert Palla of the Probabilistic Safety Assessment Branch (SPSB) performed the review and should be consulted for any additional information regarding the cost-beneficial SAMAs. If you have any other questions concerning this matter, please contact the environmental project manager for the Robinson License Renewal Project, Rich Emch, at 301-415-1590.

Docket No.: 50-261

Attachment:
Supplement 13 to NUREG-1437)

cc: w/o attachment

Distribution:

RLEP RF	J. Tappert
S.K. Mitra	R. Emch
C. Patel	R. Palla
LA	M. Tschiltz

Accession nos.:

1. Memo to E. Hackett w/Svc. List: **ML040050412**
2. Supplement 13 to NUREG-1437): **ML033430375**

C:\ORPCheckout\FileNET\ML040050412.wpd

OFFICE	PM:RLEP	LA:RLEP	SC:RLEP	PD:RLEP
NAME	REmch	M. Jenkins	JTappert (D. Wheeler for)	PTKuo
DATE	12/30/03	12/30/03	12/30/03	12/30/03

OFFICIAL RECORD COPY

H. B. Robinson Steam Electric
Carolina Power & Light Company Plant, Unit No. 2

cc:

Mr. Steven R. Carr
Associate General Counsel - Legal
Department
Progress Energy Service Company, LLC
P.O. Box 1551
Raleigh, NC 27602-1551

Ms. Margaret A. Force
Assistant Attorney General
State of North Carolina
P.O. Box 629
Raleigh, NC 27602

U.S. Nuclear Regulatory Commission
Resident Inspector's Office
H. B. Robinson Steam Electric Plant
2112 Old Camden Road
Hartsville, SC 29550

Mr. T. P. Cleary
Plant General Manager
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, SC 29550

Mr. Chris L. Burton
Director of Site Operations
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, SC 29550

Public Service Commission
Post Office Drawer 11649
State of South Carolina
Columbia, SC 29211

J. F. Lucas
Manager - Support Service - Nuclear
H. B. Robinson Steam Electric Plant,
Unit No. 2
Carolina Power & Light Company
3581 West Entrance Road
Hartsville, SC 29550

Mr. C. T. Baucom
Supervisor, Licensing/Regulatory Programs
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, SC 29550

Ms. Beverly Hall, Section Chief
N.C. Department of Environment
and Natural Resources
Division of Radiation Protection
3825 Barrett Dr.
Raleigh, NC 27609-7721

Mr. Robert P. Gruber
Executive Director
Public Staff - NCUC
4326 Mail Service Center
Raleigh, NC 27699-4326

Mr. Henry H. Porter, Assistant Director
South Carolina Department of Health
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Mr. James W. Holt, Manager
Performance Evaluation and
Regulatory Affairs PEB 7
Progress Energy
P.O. Box 1551
Raleigh, NC 27602-1551

Mr. John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N Street, NW.
Washington, DC 20037-1128

Mr. B. L. Fletcher III
Manager - Regulatory Affairs
Carolina Power & Light Company
H. B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, SC 29550-0790

Mr. Fred Emerson
Nuclear Energy Institute
1776 I St., N.W., Suite 400
Washington, DC 20006-3708

Talmage B. Clements
Manager - License Renewal
Carolina Power and Light Company
410 South Wilmington Street
Raleigh, NC 27602

Mr. Roger A. Stewart
Carolina Power and Light Company
H.B. Robinson Steam Electric Plant,
Unit No. 2
3581 West Entrance Road
Hartsville, SC 29550

Mr. J. W. Moyer, Vice President
H. B. Robinson Steam Electric Plant
Unit No. 2
Carolina Power & Light Company
3581 West Entrance Road
Hartsville, SC 29550-0790

H. B. Robinson Steam Electric
Plant, Unit No. 2
cc:

Ms. Rose Roseveare, Branch Manager
Hartsville Memorial Library
147 West College Avenue
Hartsville, SC 29550

Ms. Vicki Eaddy, Assistant to the President
Coker College
300 East College Avenue
Hartsville, SC 29550

Mr. William Gaskins, Mayor
City of Hartsville
City Hall
133 West Carolina Avenue
Hartsville, SC 29550

Mr. James Pennington, City Manager
City of Hartsville
City Hall
133 West Carolina Avenue
Hartsville, SC 29550

Ms. Nancy McGee, President
Greater Hartsville Chamber of Commerce
Post Office Box 578
Hartsville, SC 29551

Ms. Phylis Griffiths, County Administrator
Darlington County
1 Public Square, Room 210
Darlington, SC 29532

Mr. Glen Campbell, County Sheriff
Darlington County
Post Office Box 783
Darlington, SC 29540

Mr. Stephen Summer
South Carolina Electrical and Gas
6248 Bush River Road
Columbia, SC 29212

Ms. Allison Latham
414 Woodland Drive
Hartsville, SC 29550

Mr. Eric Hewling
P.O. Box 2496
Hartsville, SC 29551

Ms. Beth Blum
North Hartsville Elementary School
110 School Drive
Hartsville, SC 29550

Ms. Ann Warr
Darlington County Council
P.O. Box 828
Lamar, SC 29069

Ms. Janet Guthrie
1439 Gordon Drive
Hartsville, SC 29550

Mr. Ken Greer
405 East Richardson Circle
Hartsville, SC 29550

Ms. Mary Jane Greer
4230 Elm. View Rd. #212
Roanoke, VA 24014

Mr. Bill Sandusky
Pacific Northwest National Laboratory
P.O. Box 999
Richland, WA 99352

Mr. David J. McNeill
Progress Energy
3935 Southborough Rd.
Florence, SC 29501

Ms. Audra Coble
Progress Energy
3581 West Entrance Rd.
Hartsville, SC 29550

Ms. Jacqueline Kirven
813 West Home Ave.
Hartsville, SC 29550

Mr. Mike McCracken
Progress Energy
4305 Aftonshire Dr.
Wilmington, NC 28412

Ms. Jeanelle McCain
Progress Energy
1201 Main St. Suite 1850
Columbia, SC 29201

Ms. Nancy McGee
Chamber of Commerce
P.O. Box 578
Hartsville, SC 29551

Ms. Susan Reese
SCE&G V.C. Summer Nuclear Station
P.O. Box 88
Jenkinsville, SC 29065

Mr. Emerson Gower
2638 Trotter Rd.
Florence, SC 29501

Mr. Jim Faile
The Messenger
P.O. Box 1865
Hartsville, SC 29550

Ms. Dawn King
SSE&G V.C. Summer Station
P.O. Box 88
Jenkinsville, SC 29065

Mr. Michael Gandy
Division of Radioactive Waste Management
SCDHEC
2600 Bull St.
Columbia, SC 29210

Lumbee Tribe
Mr. Milton Hunt, Tribal Council Chair
P.O. Box 68
Pembroke, NC 28372

Beaver Creek Band of Pee Dee Indians
Mr. Dennis Bracy, Chief
P.O. Box 699
230 Pine St, NW
Salley, SC 29137

Catawba Indian Nation
Mr. Gilbert Blue, Chief
P.O. Box 188
Catawba, SC 29704

Chaloklowas Indian People of the
Chickasaw Nation
Mr. Vernon Tanner, Chief
501 Tanner Lane
Hemingway, SC 29554

Natchez Pee Dee Indian Tribe of
Orangeburg, SC
Mr. Samuel Earl "Red Hawk" Davis, Chief
79 Bluff Road
Columbia, SC 29201

Pee Dee Indian Nation
Mr. David Locklear, Chief
110 West Gibson Avenue
P.O. Box 557
McColl, SC 29570

Pee Dee Indian Nation of Beaver Creek
Mr. Leroy Lewis, Chief and Council
President
P.O. Box 396
Neeses, SC 29107

Santee Indian Nation of South Carolina
Mr. William Koon, Chief
P.O. Box 741
Roebuck, SC 29376

Dr. Marta Mathews
State Historic Preservation Officer
South Carolina Department of Archives
and History
8301 Parklane Road
Columbia, SC 29223

Roger L. Banks, Field Supervisor
Fish and Wildlife Service
176 Croghan Spur Road, Suite 200
Charleston, SC 29407

Heinz Mueller
US EPA, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303

Stephania K. Bolden, Ph.D.
NOAA Fisheries
9721 Executive Center Drive North
St. Petersburg, FL 33702

Henry Barnes
1604 Eagon Court
Fuquay-Varina, NC 27526

Jim Faile
The Messenger
P.O. Box 1865
Hartsville, SC

Chuck Wilson
TVA
4201 Gann Store Rd
Hixson, TN 37343