

October 26, 2009

Ms. Shari Wilson, Secretary
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230

SUBJECT: INFORMATION REQUEST AND CONSULTATION REGARDING THE
COMBINED LICENSE APPLICATION FOR CALVERT CLIFFS NUCLEAR
POWER PLANT UNIT 3

Dear Ms. Wilson:

The U.S. Nuclear Regulatory Commission (NRC) staff is currently reviewing an application submitted by Calvert Cliffs 3 Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC (collectively referred to as UniStar) for a combined license (COL) to construct and operate one new nuclear power plant at the Calvert Cliffs Nuclear Power Plant (CCNPP) site near Lusby, Maryland. UniStar has recently submitted revised information that contains new alternative sites. As part of the review of the COL application, the NRC is preparing an environmental impact statement (EIS) as required by Title 10 of the *Code of Federal Regulations* Part 51 (10 CFR Part 51), the NRC's regulations that implement the National Environmental Policy Act of 1969, as amended (NEPA). The EIS will include an analysis of pertinent environmental issues, including endangered or threatened species and impacts to fish and wildlife at the proposed and alternative sites. The NRC staff is requesting that you provide any information the NRC should consider in its review of the new alternative sites. Therefore, this letter is being submitted for consultation under the provisions of the Fish and Wildlife Coordination Act of 1934, as amended (FWCA).

The NRC staff will evaluate the environmental impacts of construction and operation of the proposed nuclear unit and will also consider alternatives to the proposed action, including an evaluation of the new alternative sites. To support the EIS preparation process, the NRC requests any information you consider appropriate under the provisions of the FWCA. Please submit your comments as soon as possible, but no later than November 16, 2009, to Ms. Laura Quinn, Environmental Project Manager, Office of New Reactors, Mail Stop T7-E30, Washington, DC 20555-0001.

The CCNPP site is located in Calvert County, Maryland, on approximately 2,000 acres on the west bank of the Chesapeake Bay, approximately halfway between the mouth of the bay and its headwaters at the Susquehanna River. The site is approximately 40 miles southeast of Washington, DC, and 7.5 miles north of Solomons, Maryland. The CCNPP site currently has two operating pressurized water reactors that have a combined capacity to generate 1,700 megawatts of electricity. UniStar plans to construct one new nuclear unit adjacent to the two existing units. The proposed unit will be a U.S. Evolutionary Power Reactor (EPR) with a generating capacity of approximately 1,600 megawatts of electricity.

UniStar has identified three new alternative sites that will be evaluated in the EIS. These sites include the former Bainbridge naval training facility, the Thiokol site, and the Eastalco site. The Bainbridge site is located in Port Deposit in Cecil County, Maryland, and would use the Susquehanna River as its water source. The Thiokol site is located near Mechanicsville in St. Mary's County, Maryland, and would use the Patuxent River as its water source. And finally the Eastalco site is located five miles south of Frederick, Maryland, in Frederick County and would use the Potomac River as its water source. Enclosed is a figure depicting the locations of each alternative site.

The cooling system for the proposed Calvert Cliffs plant consists of a mechanical draft wet cooling tower. Approximately 43,480 million gallons per day (mgd) would be taken from Chesapeake Bay to make up losses from evaporation, blowdown, drift, and desalinization. For the alternative sites approximately 50 mgd of water would be removed from the respective water source, the consumptive water use would be approximately 27mgd, and the remaining 23 mgd would be returned to the water source.

The current version, revision 5, of the application for the COL is available through the web-based version of the NRC's Agencywide Documents Access and Management System, which can be found at <http://www.nrc.gov/reading-rm/adams.html>. Revision 5 of the Environmental Report (ER) section of the application is listed under accession number ML092330294. The revised alternative sites and related information was submitted after revision 5 and can be located under accession number ML092450557. Revision 5 of the CCNPP COL application and new alternative site submittal are also available on the Internet at <http://www.nrc.gov/reactors/new-reactors/col/calvert-cliffs/documents.html>.

If you have any questions or require additional information, please contact the Environmental Project Managers for the CCNPP COL project, Ms. Laura Quinn at 301-415-2220 or Laura.Quinn@nrc.gov, or Alicia Williamson at 301-415-1878 or Alicia.Williamson@nrc.gov.

Sincerely,

Robert G. Schaaf, Chief/**RA**
Environmental Projects Branch 3
Division of Site and Environmental Reviews
Office of New Reactors

Docket No: 52-016

Enclosure: As stated

cc: See next page

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Robert G. Schaaf, Chief/*RA*/
Environmental Projects Branch 3
Division of Site and Environmental Reviews
Office of New Reactors

Docket No: 52-016

Enclosure: As stated

cc: See next page

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ADAMS ACCESSION NUMBER: ML092660193

*See Previous Concurrence

OFFICE	PM: RAP2: DSER:NRO	AB: RENV: DSER:NRO	LA: RAP2: DSER:NRO	OGC	BC:RAP3: DSER:NRO
NAME	LQuinn	HNash	EHylton	JBiggins	RSchaaf
DATE	09/ 16 /2009	09/ 17 /2009	09/ 15 /2009	10/ 5 /2009	10/ 26 /2009

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Letter to Shari Wilson from Robert G. Schaaf dated October 26, 2009

SUBJECT: INFORMATION AND CONSULTATION REQUEST REGARDING THE COMBINED
LICENSE APPLICATION FOR CALVERT CLIFFS NUCLEAR POWER PLANT UNIT 3

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RidsNroDser

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Rap3 R/F

AWilliamson, NRO

LQuinn, NRO

SArora, NRO

JBiggins, OGC

HNash, NRO

JColaccino, NRO

EHylton, NRO

EChapman, PNNL (elaine.chapman@pnl.gov)

CDuberstein, PNNL (corey.duberstein@pnl.gov)

RKropp, PNNL (roy.kropp@pnl.gov)

MParkhurst, PNNL (maryann.parkhurst@pnl.gov)

Calvert Cliffs Nuclear Power Plant (Safety)

Date: 7/16/2009

cc:

Mr. Richard L. Baker
Bechtel Power Corporation
5275 Westview Drive
Frederick, MD 21703-8306

Ms. Patricia T. Birnie, Esquire
Co-Director
Maryland Safe Energy Coalition
P. O. Box 33111
Baltimore, MD 21218

Ms. Michele Boyd
Legislative Director
Energy Program
Public Citizens Critical Mass Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Ms. Kristen A. Burger
Maryland People's Counsel
6 St. Paul Centre
Suite 2102
Baltimore, MD 21202-1631

Mr. Carey Fleming, Esquire
Senior Counsel - Nuclear Generation
Constellation Generation Group, LLC
750 East Pratt Street, 17th Floor
Baltimore, MD 21202

Mr. Jay S. Gaines
Director, Licensing
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

Mr. Greg Gibson
Vice President, Regulatory Affairs
UniStar Nuclear Energy
750 E. Pratt Street
Baltimore, MD 21202-3106

Mr. Brian Hastings
Public Utility Commission
William B. Travis Building
P.O. Box 13326
1701 Noth Congress Avenue
Austin, TX 78701-3326

Mr. Roy Hickok
NRC Technical Training Center
5700 Brainerd Road
Chattanooga, TN 37411-4017

Mr. Norris McDonald
President
AAEA
9903 Caltor Lane
Ft. Washington, MD 20744

Mr. R. I. McLean
Nuclear Programs
Power Plant Research Program
Maryland Department of Natural Resources
580 Taylor Avenue (B wing, 3rd floor)
Tawes State Office Building
Annapolis, MD 21401

Charles Peterson
Pillsbury, Winthrop, Shaw & Pittman, LLP
2300 "N" Street, NW
Washington, DC 20037

President
Calvert County Board of Commissioners
175 Main Street
Prince Frederick, MD 20678

Regional Administrator
Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Calvert Cliffs Nuclear Power Plant (Safety)

Date: 7/16/2009

Resident Inspector
U.S. Nuclear Regulatory Commission
P. O. Box 287
St. Leonard, MD 20685

Mr. Tom Sliva
7207 IBM Drive
Charlotte, NC 28262

Mr. David W. Sutherland
Chesapeake Bay Field Office
U.S. Fish and Wildlife Service
177 Admiral Cochrane Drive
Annapolis, MD 21401

Mr. George Wrobel
UniStar Nuclear Energy
100 Constellation Way, 1400P
Baltimore, MD 21202-3106

cc:

APH@NEI.org (Adrian Heymer)
awc@nei.org (Anne W. Cottingham)
BrinkmCB@westinghouse.com (Charles Brinkman)
carey.fleming@constellation.com (Carey Fleming)
chris.maslak@ge.com (Chris Maslak)
cwaltman@roe.com (C. Waltman)
david.lewis@pillsburylaw.com (David Lewis)
eddie.grant@excelservices.com (Eddie Grant)
FAlexander@sha.state.md.us (Felicia Alexander)
george.wrobel@unistarnuclear.com (George Wrobel)
greg.gibson@unistarnuclear.com (Greg Gibson)
greshaja@westinghouse.com (James Gresham)
gzinke@entergy.com (George Alan Zinke)
jason.parker@pillsburylaw.com (Jason Parker)
jerald.head@ge.com (Jerald G. Head)
jgutierrez@morganlewis.com (Jay M. Gutierrez)
jim.riccio@wdc.greenpeace.org (James Riccio)
JJNesrsta@cpsenergy.com (James J. Nesrsta)
John.O'Neill@pillsburylaw.com (John O'Neill)
Joseph.Hegner@dom.com (Joseph Hegner)
KSutton@morganlewis.com (Kathryn M. Sutton)
kwaugh@impact-net.org (Kenneth O. Waugh)
lchandler@morganlewis.com (Lawrence J. Chandler)
lois@ieer.org (Lois Chalmers)
Marc.Brooks@dhs.gov (Marc Brooks)
maria.webb@pillsburylaw.com (Maria Webb)
mark.beaumont@wsms.com (Mark Beaumont)
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
media@nei.org (Scott Peterson)
mike_moran@fpl.com (Mike Moran)
MSF@nei.org (Marvin Fertel)
nirsnet@nirs.org (Michael Mariotte)
patriciaL.campbell@ge.com (Patricia L. Campbell)
paul.gaukler@pillsburylaw.com (Paul Gaukler)
Paul@beyondnuclear.org (Paul Gunter)
pfree@northwestern.edu (Professor Paul Friesema)
pshastings@duke-energy.com (Peter Hastings)
RJB@NEI.org (Russell Bell)
RKTemple@cpsenergy.com (R.K. Temple)
RMClean@dnr.state.md.us (Richard McLean)
sabinski@suddenlink.net (Steve A. Bennett)
sandra.sloan@areva.com (Sandra Sloan)
sfrantz@morganlewis.com (Stephen P. Frantz)
sgray@dnr.state.md.us (Susan Gray)
stephan.moen@ge.com (Stephan Moen)
tkkibler@scana.com (Tria Kibler)

Calvert Cliffs Nuclear Power Plant (Safety)

Date: 7/16/2009

tlharpster@pplweb.com (Terry L. Harpster)

trsmith@winston.com (Tyson Smith)

Vanessa.quinn@dhs.gov (Vanessa Quinn)

VictorB@bv.com (Bill Victor)

Wanda.K.Marshall@dom.com (Wanda K. Marshall)

wj3@comcast.net (William Johnston)

Calvert Cliffs Nuclear Power Plant (Environmental)

Date: 9/1/2009

cc:

Mr. Harold Sharlin
3401 38th Street NW, #318
Washington, DC 20016

Mr. David Zonderman
252 Driftwood
Solomons, MD 20688

Mr. Mark Coles, Business Legislative Rep.
Building and Construction Trades Council
5829 Allentown Road
Camp Springs, MD 20746

Ms. Jacqui Steele-McCall
GS Proctor
9912 Sudan Place
Upper Marlboro, MD 20772

Mr. David Murphy
UniStar Nuclear Energy
750 Pratt Street, 14th Floor
Baltimore, MD 21202

Mr. Joe Mihalcik
UniStar Nuclear Energy
2264 Birch Road
Port Republic, MD 20676

Mr. Bud Hanbury
I.U.O.E.
4546 Britannia Way
Suitland, MD 20746

Mr. David Turner
Constellation
24672 Apple Sauce Lane
Hollywood, MD 20636

Mr. Richard Lloyd, Attorney
135 W Dares Beach Road, Suite 209A
Prince Fredrick, MD 20678

Mr. Bill Burch
MACTEC
560 Herndon Parkway, Suite 200
Herndon, VA 20170

Mr. Ed Sabo
MACTEC Federal Programs
560 Herndon Parkway, Suite 200
Herndon VA, 20170

Mr. Donald Brown
United Association
26205 Yowaiski Mill Road
Mechanicsville, MD 20659

Mr. Mike Dorsey
BCTD
1601 16th Street NW
Washington, DC 20006

Mr. Norman Meadow
MD Conservation Council
2304 South Road
Baltimore, MD 21209

Ms. Delores Caniglia
13400 Lore Pines Lane
Solomons, MD 20688

Mr. Charles E. MacDonald
P.O. Box 38
Chesapeake Beach, MD 20732

Ms. Amy Corder
Calvert Cliffs Nuclear Power Plant
1955 Parkers Creek Spur
Port Republic, MD 20676

Mr. Danny Adams
MD Department of the Environment
1800 Washington Blvd.
Baltimore, MD 21250

Mr. Jay Gaines
12947 Huron Drive
Lusby, MD 20657

Mr. Michael Griffin
MD Department of the Environment
1800 Washington Blvd.
Baltimore, MD 21230

Mr. Juan Carlos Recinos
Local Union 201
1507 Rhode Island Avenue NE
Washington, DC 20018

Mr. Tyrone Washington
Iron Workers Local 201
3917 29th Street Apt 214
Washington, DC 20008

Mr. Bob Migliaccio
Iron Workers Local 201
1507 Rhode Island Avenue NE
Washington, DC 20008

Mr. Ryan Leonard
Iron Workers Local 201
4665 Port Tobacco Road
Nanjemoy, MD 20662

Ms. Dawn Tuckor
Calvert County Minority Business Alliance
4140 Holbrook Road
Huntington, MD 20639

Ms. Felicia Alexander
Maryland State Highway Administration
707 North Calvert Street, Mail Stop C-301
Baltimore, MD 21202

Mr. Randy Holton
Box 768
Newburg, MD 20664

Lee and April Minin
P.O. Box 998
Solomons, MD 20688

Mr. Timothy Butler
12407 Red Rock Trial
Lusby, MD 20657

Mr. John Rayner
Iron Workers Local Union No 5
9100 Old Marlboro Pike
Upper Marlboro, MD 20772-3627

Mr. Milo Chaffee
Sheet Metal Workers Local 100
4725 Silver Hill Road
Suitland, MD 20746

Mr. Michael Lukey
MACTEC
560 Herndon Parkway, Suite 200
Herndon, MD 20170

Mr. Keith Crissman
Constellation
23380 Tara Lane
Hollywood, MD 20636

Mr. Phillip Benavides
North American Young
Generation in Nuclear
3591 Saint Leonard Road
Port Republic, MD 20676

Mr. Frank Fox
Sierra Club
27290 Woodburn Hill Road
Mechanicsville, MD 20659

Mr. Robert Tufts
Maryland Green Party
1308 Fairfax Avenue
Churchton, MD 20733

Mr. Mic Gribben Mr. Michael Pritchard
Tetra Tech Inc.
20251 Century Blvd.
Germantown, MD 20874

Iron Workers Local Union No 5
24380 Mervell Dean Road Apt B
Hollywood, MD 20636

Mr. Bill Scarafia
St. Mary's County Chamber of Commerce
44220 Airport Road
California, MD 20619

Mr. Joseph Green
29 Francis Street
Annapolis, MD 21401

Ms. Kathy Anderson
U.S. Army Corps of Engineers
Baltimore District
P.O. Box 1715
Baltimore, MD 21209-1715

Mr. Bob Nelson, Health Physicist
Maryland Dept. of the Environment
1800 Washington Blvd.
Baltimore, MD 21230

Ms. Dantia Boonchaisri
Calvert County Dept. of Economic Development
Courthouse, 175 Main Street
Prince Fredrick, MD 20678

Ms. Brenda MacNair
11010 Mill Bidge Road
Lusby, MD 20657

Mr. Kenneth Moore
8258 Cooperleaf Court
Owens, MD 20736-3615

Mr. James Sinclair
2120 Tamarac Trail
Lusby, MD 20657

Ms. Theresa Hunter
42566 Anne Court
Hollywood, MD 20636

Mr. Nick Garrett
Calvert Tourism Commission
378 Cambridge Place
Prince Fredrick, MD 20678

Ms. Deborah McClure
Chamber of Commerce
1165 Beacon Way
Lusby, MD 20657

Dr. Gwen DeBois
Physicians for Social Responsibility
1817 Sulgnwe Avenue
Baltimore, MD 21209

Mr. Brad Kanbowsky
P.O. Box 1276
Huntington, PA 20637

Mr. Randy Holter
P.O. Box 76
Newburg, MD 20664

Professor Paul Friesema
Environmental Policy and Culture Program
304 Scott Hall
601 University Place
Northwestern University
Evanston, IL 60208-1006

Alan Summerville
ICF International
9300 Lee Highway
Fairfax, VA 22031-1207

Calvert Cliffs Nuclear Power Plant (Environmental)

Date: 9/1/2009

cc:

Kathy.Anderson@usace.army.mil (Kathy Anderson)
Phillip.Benavides@comcast.net (Phillip Benavides)
Trondelle2002@yahoo.com (Trondelle Brooks)
Whbiv@nc.rr.com (William Buchanan)
Kcrissman@md.metrocast.net (Brenice Crissman)
Afisher@citizen.org (Allison Fisher)
Paul@beyondnuclear.org (Paul Gunter)
Kevin@beyondnuclear.org (Kevin Kamps)
NorrisMcDonald@msn.com (Norris McDonald)
Smcgarvey@bctd.org (Sean McGarvey)
Meadownd@jhu.edu (Norm Meadow)
Csavoy@smwlocal100.com (Clifton Savoy)
Dimitri.Lutchenkov@unistarnuclear.com (Dimitri Lutchenkov)
pfree@northwestern.edu (Paul Friesema)