

December 22, 2010

Mr. Miles M. Croom
Assistant Regional Administrator for
Habitat Conservation Division
National Marine Fisheries Service
Southeast Regional Office
263 13th Avenue South
St. Petersburg, FL 33701-5505

SUBJECT: RESPONSE TO ESSENTIAL FISH HABITAT CONSERVATION
RECOMMENDATIONS REGARDING PROPOSED LEVY NUCLEAR PLANT
UNITS 1 AND 2

Dear Mr. Croom:

The U.S. Nuclear Regulatory Commission (NRC) received your letter, dated October 26, 2010, providing the National Marine Fisheries Service's (NMFS) comments and conservation recommendations in response to the draft environmental impact statement (DEIS) and essential fish habitat (EFH) assessment, respectively, for the construction and operation of the proposed Levy Nuclear Plant (LNP) Units 1 and 2 site in Levy County, Florida. As cooperating agencies, the NRC and the U.S. Army Corps of Engineers (USACE) have conducted a joint EFH consultation with NMFS in association with reviews of the application submitted by Progress Energy Florida (PEF) for combined licenses from the NRC and a Department of the Army permit from USACE. The joint EFH consultation was initiated pursuant to Section 305 of the Magnuson-Stevens Fishery Conservation and Management Act (Public Law 94-265, December 1996) (the "Act"), and the EFH assessment was included in Appendix F of the DEIS, which was issued in August 2010. This letter focuses on responding to the EFH conservation recommendations for the purpose of concluding the EFH consultation by the NRC, as required by Section 305(b)(4)(B) for the Act. It is our understanding that the USACE will respond to the NMFS by separate letter.

In the EFH assessment, the NRC and USACE determined that construction and operation of proposed Units 1 and 2 at the LNP site would have minimal adverse effects on EFH within the Crystal Bay area of the Gulf of Mexico, Old Withlacoochee River, and Cross Florida Barge Canal (CFBC), as a result of the loss of spawning, nursery, forage, and/or shelter habitat for the 14 species evaluated. NMFS's EFH conservation recommendations from your October 26, 2010, letter are reproduced below:

- 1) A minimum 5-year baseline survey should be developed and coordinated with state and Federal natural resource agencies to determine site-specific, year-round impacts to fish and invertebrate resources present at the cooling water intake site following plant operation. Acquired data could then be used to quantitatively calculate potential impacts to LNP operations on identified fishery resources and, if determined necessary, to develop and implement Best Management practices and adaptive management mitigation options to further reduce such impacts.

- 2) A minimum 3-year Submerged Aquatic Vegetation (SAV) survey, conducted between June 1 through September 30, should be conducted in portions of the Gulf of Mexico offshore of the cooling water discharge canal at the Crystal River Energy Complex facility to determine if discharge of additional cooling water from LNP operations is resulting in adverse impacts to SAV. Following SAV sampling and if survey results indicate diminished SAV densities are occurring as a result of discharge of LNP cooling water, an SAV mitigation plan should be developed in consultation with state and Federal natural resource agencies.
- 3) The filling of approximately 4.5 acres of estuarine emergent marsh habitats for proposed blowdown pipeline corridor routing between the LNP and existing Crystal River Energy Complex facility should not be authorized. Alternatively, necessary pipeline construction should be aligned through available upland areas between these sites.
- 4) If it is determined there is a need for dredging portions of the Gulf of Mexico immediately offshore from the Cross Florida Barge Canal, then benthic surveys should be conducted. Such surveys should also include benthic habitat assessments to determine the presence and abundance of SAV and hardbottom habitats. Results of these surveys should be provided to NMFS staff for review.
- 5) Provided unavoidable hardbottom and SAV impacts are expected to occur as a result of Item 4, above, development of a conceptual compensatory mitigation plan for impacts to marine habitats should include the following elements: 1) description of the mitigation plan; 2) quantification of anticipated impact acreage versus proposed mitigation acreage and justification for the proposed mitigation acreage; 3) scientific criteria for determining mitigation success; 4) a project and mitigation implementation schedule; 5) targeted climax communities expected in mitigation area(s), including their acreage and configurations; 6) material and methods to be used to achieve the intended mitigation; 7) comprehensive 5-year monitoring and reporting schedules; and 8) contingency plans by which equivalent mitigation would be completed if the proposed mitigation fails.

In addition, your letter recommends that the NRC and USACE coordinate with the Federal Energy Regulatory Commission (FERC) to assess the potential cumulative effects of the Levy Nuclear and Inglis Hydropower Plants' (IHP) operations on diadromous species and their associated habitats and address preliminary measures for protection, mitigation, and enhancement of these resources.

Although the NRC considered the mitigative measures in the EFH assessment, the NRC's statutory authority under the Atomic Energy Act of 1954, as amended, does not allow the NRC to impose on NRC licenses the mitigative measures described in your letter. Instead, the Florida Department of Environmental Protection (FDEP) as delegated by the Environmental Protection Agency and USACE have such authority under the Clean Water Act. Therefore, regarding Items 1, 2, 4, and 5, above, the NRC encourages NMFS to collaborate with the FDEP or USACE to implement: 1) baseline fish and invertebrate surveys by the cooling water intake site; 2) SAV surveys; 3) potential benthic survey associated with dredging in the Gulf of Mexico; and 4) development of a conceptual compensatory mitigation plan for impacts to marine habitats that could occur as a result of dredging in the Gulf of Mexico.

In April 2010, a petition for Notification to Modify the State's Site Certification Application for the Levy project was submitted by PEF to the FDEP. The primary purpose of the modification is to avoid 4.5 acres of estuarine emergent marsh habitats as presented in EFH conservation recommendation number three. The FDEP is expected to decide on the petition in January 2011.

Although not an EFH conservation recommendation, your October 26, 2010, letter recommended that the NRC and the USACE coordinate with FERC to assess the potential cumulative effects of the proposed LNP and the proposed IHP on diadromous species and their associated habitats as well as addressing preliminary measures for protection, mitigation, and enhancement of these resources. The review team is unaware of any diadromous fish species that currently or historically inhabited the Withlacoochee River. The review team did evaluate the potential for cumulative impacts associated with the IHP and the LNP in Section 7.3.2 of the August 2010 DEIS. The review team concluded that construction of the hydropower plant could temporarily affect downstream migration of fish from Lake Rousseau to the Withlacoochee River but would have no effect on the CFBC or the Old Withlacoochee River. The review team also found that the IHP is isolated from impacts on the CFBC because the Inglis Lock bypass channel and the Withlacoochee River are not hydraulically connected to the CFBC. The construction and operation of the IHP would have no effect on fish populations or EFH in the CFBC. Thus, the staff concluded that the hydropower project would have no detectable incremental cumulative impact on EFH or fish populations affected by the building and operating of LNP. Therefore, the review team finds no reason to coordinate with FERC to further assess the potential cumulative effects of the IHP and LNP on diadromous species, EFH, or the local fishery.

This response letter concludes the NRC's portion of the joint EFH consultation regarding construction and operation of proposed Units 1 and 2 at the LNP site. The USACE will complete its consultation with the NMFS through a separate letter. If you have any questions concerning the response to NMFS's EFH conservation recommendations, please contact Mr. Douglas Bruner of my staff at 301-415-2730, or via e-mail to Douglas.Bruner@nrc.gov.

Sincerely,

/RA/ By Nilesh C. Chokshi Acting For

Scott C. Flanders, Director
Division of Site and Environmental Reviews
Office of New Reactors

Docket Nos.: 52-029 and 52-030

cc: See next page

In April 2010, a petition for Notification to Modify the State's Site Certification Application for the Levy project was submitted by PEF to the FDEP. The primary purpose of the modification is to avoid 4.5 acres of estuarine emergent marsh habitats as presented in EFH conservation recommendation number three. The FDEP is expected to decide on the petition in January 2011.

Although not an EFH conservation recommendation, your October 26, 2010, letter recommended that the NRC and the USACE coordinate with FERC to assess the potential cumulative effects of the proposed LNP and the proposed IHP on diadromous species and their associated habitats as well as addressing preliminary measures for protection, mitigation, and enhancement of these resources. The review team is unaware of any diadromous fish species that currently or historically inhabited the Withlacoochee River. The review team did evaluate the potential for cumulative impacts associated with the IHP and the LNP in Section 7.3.2 of the August 2010 DEIS. The review team concluded that construction of the hydropower plant could temporarily affect downstream migration of fish from Lake Rousseau to the Withlacoochee River but would have no effect on the CFBC or the Old Withlacoochee River. The review team also found that the IHP is isolated from impacts on the CFBC because the Inglis Lock bypass channel and the Withlacoochee River are not hydraulically connected to the CFBC. The construction and operation of the IHP would have no effect on fish populations or EFH in the CFBC. Thus, the staff concluded that the hydropower project would have no detectable incremental cumulative impact on EFH or fish populations affected by the building and operating of LNP. Therefore, the review team finds no reason to coordinate with FERC to further assess the potential cumulative effects of the IHP and LNP on diadromous species, EFH, or the local fishery.

This response letter concludes the NRC's portion of the joint EFH consultation regarding construction and operation of proposed Units 1 and 2 at the LNP site. The USACE will complete its consultation with the NMFS through a separate letter. If you have any questions concerning the response to NMFS's EFH conservation recommendations, please contact Mr. Douglas Bruner of my staff at 301-415-2730, or via e-mail to Douglas.Bruner@nrc.gov.

Sincerely,

/RA/ By Nilesh C. Chokshi Acting For

Scott C. Flanders, Director
Division of Site and Environmental Reviews
Office of New Reactors

Docket Nos.: 52-029 and 52-030

cc: See next page

DISTRIBUTION:

See next page

ADAMS Accession No.: ML103190723 *via e-mail

NRO-002

OFFICE	NRO/DSER/RAP2:PM	NRO/DSER/RAP3:LA	NRO/DSER/RENV:AB
NAME	DBrunner	MBrown*	MMasnik
DATE	12/ 09 /10	12/ 22 /10	12/ 13 /10
OFFICE	OGC	NRO/DSER/RAP3:BC	NRO/DSER:DD
NAME	JMartin	RSchaaf	SFlanders
DATE	12/ 17 /10	12/ 21 /10	12/ 22 /10

OFFICIAL RECORD COPY

Letter to Miles M. Croom from Scott C. Flanders dated December 22, 2010

SUBJECT: RESPONSE TO ESSENTIAL FISH HABITAT CONSERVATION
RECOMMENDATIONS REGARDING PROPOSED LEVY NUCLEAR PLANT
UNITS 1 AND 2

DISTRIBUTION:

Docket Nos.: 52-029 and 52-030

PUBLIC	RidsOcaMailCenter	SWyngarden, ISL (SWyngarden@icfi.com)
DBrunner, NRO	RidsNroDnrl	RScherpelz, PNNL (scherpelz@pnl.gov)
BAnderson, NRO	RidsNroDserRenv	AStegen, PNNL (Amanda.Stegen@pnl.gov)
MBrown, NRO	RidsOcaMailCenter	
RidsRgn2MailCenter	RidsOgcMailCenter	
JMartin, OGC	RidsOpaMail	
JSebrosky, NRO	RidsNroDser	
KRoach, OGC	GHambrick, USACE (Gordon.A.Hambrick@usace.army.mil)	
RHanna, RII		
GWilson, RII		
TMorrisey, RII		

Levy County Mailing List

cc:

Ms. Pamela Albert
5630 N Andri Drive
Crystal River, FL 34428

Mr. Hugh Arnold
14031 SE 82nd Court
Inglis, FL 34429

Ms. Betty Berger
PO Box 83
Inglis, FL 34449

Ms. Carol Bergmann
122 N. Pompeo Avenue
Crystal River, FL 34429

Mr. David Bernhart
Assistant Regional Administrator for
Protected Resources
Southeast Regional Office
National Marine Fisheries Service
263 13th Avenue South
St. Petersburg, FL 33701

Mr. Troy Burrell, Jr.
12005 N. Florida Avenue
Dunnellon, FL 34434

Mr. Hal C. Flowers
2919 Wallerford Avenue
Tampa, FL 33611

Ms. Renate Cannon
7451 NW 35th Street
Chiefland, FL 32626-7317

Mr. Ken Cheek
12005 North Florida Avenue
Dunnellon, FL 34434

Ms. Linda Cohan
AF Knotts Public Library
11 56th Street
Yankeetown, FL 34498

Ms. Betsy Cox
5213 Relay Way
Raleigh, NC 27605

Avis Craig
10995 N. Citrus Avenue
Crystal River, FL 34428

The Honorable Mitchell Cypress
Chairman
Seminole Tribe of Florida
6300 Stirling Road
Hollywood, FL 33024

Mr. Darryl A. Diamond
20165 SE 115th Avenue
Inglis, FL 34449

Ms. Amanda Douglas
P.O. Box 1112
Bronson, FL 32621

Ms. Mimi Drew
FDEP Deputy Secretary
3900Commonwealth Blvd
Mail Stop 15
Tallahassee, FL 32399

Ms. Lesa Ehlers
Citrus County
Costal Region Library
8619 W. Crystal Street
Crystal River, FL 34426

Mr. Thomas Eppes
6900 Uilmerton Road
Largo, FL 33771

Ms. Patricia Foreman
323 E. Hill Street
Inverness, FL 34452

Levy County Mailing List

cc:

Mr. John M. Fowler, Director
Advisory Council on Historic Preservation
Office of Federal Agency Programs
Old Post Office Building
1100 Pennsylvania Ave., NW, Ste 803
Washington, DC 20004

Mr. Ken Frink
1281 N. Lombard Avenue
Lecanto, FL 34461

Carol & John Froelich
9521 North Alder Avenue
Crystal River, FL 34428

CDR Paul S. Gagliano
Region IV
U.S. Environmental Protection Agency
61 Forsyth Street
Atlanta, GA 30303

Mr. Rolando Garcia, Regional Director
North Central Region
Florida Fish and Wildlife Conservation
Commission
3377 E. U.S. Hwy 90
Lake City, FL 32055-8795

Mr. Frederick P. Gaske, Director
Division of Historical Resources State
Historic Preservation Officer
Office of Cultural and Historical Programs
500 S. Bronough Street
Tallahassee, FL 32399-0250

Mr. James Golden, Lead Planner
Intergovernmental Policy
and Planning Division
South Florida Water Management District
West Palm Beach, FL 33416-4680

Mr. Don Hambrick
Jacksonville District - Corps of Engineers
Department of the Army
Panama City Regulatory Office
1002 West 23rd Street, Suite 350
Panama City, FL 32405-3648

Chief Leonard Harjo
Seminole Nation of Oklahoma
P.O. Box 1498
Wewoka, OK 74884

Mr. Mac Harris
2795 W. Sunrise Street
Lecanto, FL 34461

Mr. Michael A. Hernandez
3663 S.W. 8th Street, Suite 200
Miami, FL 33135

Mr. Alan Hodges
P.O. Box 110240
Gainesville, FL 32611

Mr. Norman Hopkins
1030 N. Crescent Drive
Crystal River, FL 34429

The Honorable Bobby Johns Bearheart,
Chief
Southeastern Lower Muscogee Indians
Perdido Bay Tribe
12533 Poloniois Pkwy
Pensacola, FL 32506

Mr. Art Jones
560 NW 14th Place
Crystal River, FL 34428

Mr. David Keys, SERO NEPA Coordinators
NOAA Fisheries Service
South Regional Office
263 13th Avenue South
St. Petersburg, FL 33701

Mr. Mark P. Klutho
14496 120th Avenue, North
Largo, FL 33774

Mr. Al Latimer
800 Magnolia Ave., Suite 1100
Orlando, FL 32803

Levy County Mailing List

cc:

Mr. Barry Lenz
5426 Bay Ctr Drive, Suite 400
Tampa, FL 33609

Maloni R. Lewis
786 NE 6th Terrace
Crystal River, FL 34428

Mr. Gary Maidhof
3600 W. Sovereign Path, Suite 109
Lecanto, FL 34461

Mr. Paul Marraffino
19544 SW 82nd Place Road
Dunnellon, FL 34432

Ms. Katrice McCray-Holly
PO Box 551
Crystal River, FL 34423

Mr. Walton McJordan
PO Box 688
Cedar Key, FL 32625

Mr. Bruce Moore
5559 Cactus Circle
Spring Hill, FL 34606

Ms. Sandy Moseley
Bronson Public Library
Levy County
600 Gilbert Street
Bronson, FL 32621

Mr. Matt Mucci
4300 W. Cypress Street, Suite 250
Tampa, FL 33607

Mr. Heinz Mueller
U.S. Environmental Protection Agency
Region 4
61 Forsyth Street
Atlanta, GA 30303

Ms. Cindy Mulkey
Engineering Specialist
Florida Department of Environmental
Protection
2600 Blair Stone Road, MS 48
Tallahassee, FL 32399

Ms. Anne Mullins, Compliance Supervisor
Tribal Historic Preservation Office
Seminole Tribe of Florida
34725 West Boundary Road
Clewiston, FL 33440

Mr. Joe Murphy
34413 Orchid Parkway
Ridge Manor, FL 33523

Mr. Michael Peters
PO Box 7
Inglis, FL 34449

Mr. Guy Rabens
1417 SW 15th Avenue
Ocala, FL 34471

E. E. Renfro
6588 W. Cannondale Drive
Crystal River, FL 34429

Mr. John Russell
17810 Hyland Lane
Dade City, FL 33523

Mr. Noah Silverman
Natural Resources Specialist
NOAA Fisheries Service
Southeast Regional Office
263 13th Avenue South
Petersburg, FL 33701

Ms. Laura Slaback
PO Box 1086
Branson, FL 32621

Levy County Mailing List

cc:

Mr. Paul Snead
4701 Fox Road
Raleigh, NC 27616

Mr. Willard Steele
Tribal Historic Preservation Officer
Tribal Historic Preservation Office
Seminole Tribe of Florida
34725 West Boundary Road
Clewiston, FL 33440

Ms. Anita Stewart
18809 4th Street, SE
Lutz, FL 33549

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

Mr. Craig Tepper, Director
Environmental Resources Management
Department
Seminole Tribe of Florida
6300 Stirling Road
Hollywood, FL 33024

Mr. Steve Terry
Miccosukee Tribe NAGPRA & Section 106
Representatives
Tamiami Station
PO Box 440021
Miami, FL 33144-0021

Mr. Mark Vianello
1614 SE Ft. King Street
Ocala, FL 34471

A. Vlikmir
1498 N. Edicott Point
Crystal River, FL 34429

Ms. Theresa Waldron
PO Box 438
Lecanto, FL 34460

Ms Linda Walker
Deputy Field Supervisor
U.S. Fish and Wildlife Service Jacksonville
Field Office
7915 Bay Meadows Way
Jacksonville, FL 32256-7515

Levy County Mailing List

cc:

Email:

ecasey21@hotmail.com (Emily Casey)
jcd1968@gmail.com (Chris Dougherty)
edisonj@levy.k12.fl.us (Jeff Edison)
gagliano.paul@epa.gov (Cdr. Paul S. Gagliano)
robert.hoffman@noaa.gov (Robert Hoffman)
skirk@tampabay.rr.com (Susan Kirk)
lawterv@cf.edu (Vernon Lawter)
Littleton.brian@epa.gov (Brian Littleton)
john.marmish@unitedway.org (John Marmish)
miedema.ron@epa.gov (Ron Miedema)
mueller.heinz@epa.gov (Heinz Mueller)
porro@optonline.net (Joe Porrovecchio)
reyes.juan@epa.gov (Juan Reyes)
rountree.marthea@epa.gov (Marthea Rountree)
Paul.Snead@pgnmail.com (Paul Snead)
greencat9@juno.com (Jennifer Sullivan)
Rinck.todd@epa.gov (Rinck Todd)
Martha.Moore@swfwmd.state.fl.us (Martha Moore)
annemullins@semtribe.com (Anne Mullins)
jenniferpietarila@semtribe.com (Jennifer Pietarila)
elliottyyork@semtribe.com (Elliott York)

COL - Progress Energy - Levy County Mailing List
cc:

(Revised 06/23/2010)

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

Ms. Georgia Cranmore
Assistant Regional Administrator
NOAA Fisheries Southeast Regional Office
9721 Executive Center Drive North
Saint Petersburg, FL 33702

Mr. John Elnitsky
Vice President
Nuclear Plant Development
Progress Energy Florida, Inc.
P.O. Box 14042
Saint Petersburg, FL 33733

COL - Progress Energy - Levy County Mailing List

Email

APH@NEI.org (Adrian Heymer)
awc@nei.org (Anne W. Cottingham)
Bill.Jacobs@gdsassociates.com (Bill Jacobs)
billn@fcan.org (Bill Newton)
brian.mccabe@pgnmail.com (Brian McCabe)
BrinkmCB@westinghouse.com (Charles Brinkman)
chris.burton@pgnmail.com (Chris Burton)
chris.maslak@ge.com (Chris Maslak)
CumminWE@Westinghouse.com (Edward W. Cummins)
cwaltman@roe.com (C. Waltman)
david.lewis@pillsburylaw.com (David Lewis)
david.waters@pgnmail.com (Dave Waters)
Derlinda.Bailey@chguernsey.com (Derinda Bailey)
ed.burns@earthlink.net (Ed Burns)
gzinke@entergy.com (George Alan Zinke)
jgutierrez@morganlewis.com (Jay M. Gutierrez)
jim.riccio@wdc.greenpeace.org (James Riccio)
joe.w.donahue@pgnmail.com (Joe Donahue)
john.elnitsky@pgnmail.com (John Elnitsky)
Joseph_Hegner@dom.com (Joseph Hegner)
KSutton@morganlewis.com (Kathryn M. Sutton)
kwaugh@impact-net.org (Kenneth O. Waugh)
Ichandler@morganlewis.com (Lawrence J. Chandler)
levynuke@ecologyparty.org (Cara Campbell)
Marc.Brooks@dhs.gov (Marc Brooks)
maria.webb@pillsburylaw.com (Maria Webb)
mark.beaumont@wsms.com (Mark Beaumont)
Mark.Crisp@chguernsey.com (Mark Crisp)
maryo@nirs.org (Mary Olson)
matias.travieso-diaz@pillsburylaw.com (Matias Travieso-Diaz)
media@nei.org (Scott Peterson)
Mike.Halpin@dep.state.fl.us (Mike Halpin)
MSF@nei.org (Marvin Fertel)
nirsnet@nirs.org (Michael Mariotte)
Nuclaw@mindspring.com (Robert Temple)
patriciaL.campbell@ge.com (Patricia L. Campbell)
Paul@beyondnuclear.org (Paul Gunter)
pshastings@duke-energy.com (Peter Hastings)
RJB@NEI.org (Russell Bell)
robert.kitchen@pgnmail.com (Robert H. Kitchen)
ronald_m_bright@bellsouth.net (Ronald Bright)
sabinski@suddenlink.net (Steve A. Bennett)
sandra.sloan@areva.com (Sandra Sloan)
sfrantz@morganlewis.com (Stephen P. Frantz)

COL - Progress Energy - Levy County Mailing List

stephan.moen@ge.com (Stephan Moen)
Tansel.Selekler@nuclear.energy.gov (Tansel Selekler)
twinkletoesdms@aol.com (Robert and Deborah Smith)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
william.maher@fpl.com (William Maher)