

**Progress Energy Florida, Inc.
 (Levy County Nuclear Power Plant, Units 1 and 2)
 Docket Nos. 52-029-COL and 52-030-COL
 October 2012 Evidentiary Hearing**

INTERVENORS' EXHIBITS

[Party] Exhibit #	Witness/Panel	Description
INT000		Intervenors' Exhibit List
INT001	Davies	Gareth Davies Testimony
INT002	Davies	Gareth Davies CV
INT003	Davies	Davies -Table 1
INT004	Davies	Davies - Table 2
INT005	Davies	Davies – Figure 2
INT006	Davies	Levy COL FSAR Rev 2 Pages 2.5-69 --2.5-70
INT007	Davies	Davies - Table 3
INT008	Davies	Davies - Figure 1
INT009	Davies	Davies - Figure 3
INT101	Hazlett	Hazlett Testimony
INT102	Hazlett	Timothy Hazlett CV

INT103	Hazlett	Glossary of Terms
INT104	Hazlett	Tech Memo Number: 338884-TMEM-123, Revision: 0
INT105	Hazlett	Technical Peer Review – District Wide Regulation Model, Version 2
INT201	Still	Still Testimony
INT202	Still	David Still CV
INT203	Still	SWRMD Daily Total Rainfall Data
INT204	Still	SWFWMD historic rainfall records from 1915 through 2010 for Levy County (http://www.swfwmd.state.fl.us/data/wmdbweb/rainfall_data_summaries.php)
INT205	Still	Chad Smith, “This Could be the Start of a Big Sinkhole Season,” Gainesville Sun, May 14, 2012. http://www.gainesville.com/article/20120514/ARTICLES/120519772
INT206	Still	Cindy Swirko, “ Large sinkhole opens up at Jonesville-area home ”, Gainesville Sun, May 12, 2012. http://www.gainesville.com/article/20120512/ARTICLES/120519871
INT207	Still	Taylor Beach WUP 42090
INT208	Still	Taylor Coastal Well Permit
INT209	Still	Deckle Beach Letter 92195
INT210	Still	Keaton Beach Letter 82195
INT211	Still	Florida Statutes excerpt
INT212	Still	Conditions of Certification Progress Energy Florida Levy Nuclear Power Plant PA08-51C Modified January 25, 2011
INT213	Still	Report to SRWMD Board on Dry Wells Dec. '11 to May '12 (Motion to file exhibit pending)
INT214	Still	USGS Circular 1139 (Motion to file exhibit pending)

INT215	Still	Permit 13262 (Motion to file exhibit pending)
INT216	Still	SRWMD Water Supply Assessment (Motion to file exhibit pending)
INT217	Still	USGS Letter, June 8, 2011 (Motion to file exhibit pending)
INT218	Still	Grubbs, Jack 2011 (Motion to file exhibit pending)
INT301	Bacchus	Bacchus Testimony
INT302	Bacchus	Bacchus CV
NRC001	NRC	FEIS
INT303	Bacchus	Bacchus Photo Narrative
INT304	Bacchus	Photo 0793 stressed pond-cypress wetlands representative of proposed LNP site
INT305	Bacchus	Photo 0804 evergreen shrub understory in wetlands representative of proposed LNP site
INT306	Bacchus	Photo 0819 Spring Creek Run flowing from Big King Spring into Gulf Hammock
INT307	Bacchus	Photo 0821 Apple Snail eggs at high water line ~0.5 m above current level of water
INT308	Bacchus	Skipped Number
INT309	Bacchus	Photo 0843 reduced surfacewater flow to coastal marshes through wider channel in Gulf Hammock vicinity of proposed LNP
INT310	Bacchus	Photo 0847 * stars indicate these are cited a second time later in testimony dead cabbage palm and pine trees from saltwater impacts in Gulf Hammock vicinity of the proposed LNP
INT311	Bacchus	Photo 0853 <i>Chara</i> sp. (green macrophytic alga), indicator of fresh groundwater discharge, covering margin of Gulf Hammock mine pit
INT312	Bacchus	Photo 0854 close-up of <i>Chara</i> sp. (green macrophytic alga), indicator of fresh groundwater discharge, covering margin of Gulf Hammock mine pit

INT313	Bacchus	Photo 0863 mine pit full of fresh ground water in Gulf Hammock vicinity of proposed LNP with dead and declining pine trees near margin of pit
INT314	Bacchus	Photo 0865 mine pit full of fresh ground water and floating mats of algae indicative of eutrophication in Gulf Hammock vicinity of proposed LNP
INT315	Bacchus	Photo 0868 large, dry wetland in Gulf Hammock vicinity of proposed LNP
INT316	Bacchus	Photo 0871 large, dry wetland in Gulf Hammock vicinity of proposed LNP with subsidence and high water line about 0.5 meters
INT317	Bacchus	Photo 0873 large, dry wetland in Gulf Hammock vicinity of proposed LNP with subsidence, high water line about 0.5 meters and dead trees
INT318	Bacchus	Photo 0876 east side of dwindling freshwater wildlife pond at interface of coastal marsh and Gulf Hammock vicinity of proposed LNP, with wildlife tracks in exposed mud
INT319	Bacchus	Photo 0934 base of declining cabbage palm tree in Gulf Hammock vicinity of proposed LNP with largest number of pathogenic fungal "conks" ever observed by Bacchus on a single tree
INT320	Bacchus	Photo 0979 root zone of trees separating from underlying karst rock formation at margin of wetland water in Gulf Hammock vicinity of proposed LNP
INT321	Bacchus	Photo 1010 * former freshwater pond contaminated with salt water in Gulf Hammock vicinity of proposed LNP with dead pine, oak and cabbage palm trees from saltwater impacts
INT322	Bacchus	Photo 1035 * former freshwater pond contaminated with salt water in Gulf Hammock vicinity of proposed LNP with dead pine and cabbage palm trees from saltwater impacts
INT323	Bacchus	Photo 1039 sign for "Funding for The Withlacoochee Gulf Preserve was Provided by Florida Communities Trust Using Florida Forever Funds Town of Yankeetown" where habitat damage is occurring in Gulf Hammock vicinity of proposed LNP
INT324	Bacchus	Photo 1136 * dead and declining bald-cypress and other wetland trees along the Lower Withlacoochee River vicinity of the proposed LNP from saltwater impacts

INT325	Bacchus	Photo 1144 dead red cedar tree along the Lower Withlacoochee River vicinity of the proposed LNP from saltwater impacts
INT326	Bacchus	Photo 1156 * declining bald-cypress and other wetland trees, with branches covered in Spanish moss along the Lower Withlacoochee River vicinity of the proposed LNP from saltwater impacts
INT327	Bacchus	Photo 1193 * another former freshwater pond contaminated with salt water in Gulf Hammock vicinity of proposed LNP, with dead and declining oak, pine and cabbage palm trees from saltwater impacts
INT328	Bacchus	Photo 1195 inactive swallet in Gulf Hammock vicinity of proposed LNP, near shallow channel
INT329	Bacchus	Photo 1201 dry, shallow channel with wetland vegetation and apple snail eggs above high water line (below hand) in the Gulf Hammock vicinity of the proposed LNP
INT330	Bacchus	Photo 1203 broad, dry, shallow channel with dead trees in the Gulf Hammock vicinity of the proposed LNP with prominent solution features
INT331	Bacchus	Photo 1220 another former freshwater pond in Gulf Hammock vicinity of proposed LNP, with water levels reduced to small puddle too small for this approximately 2-meter long to submerge
INT332	Bacchus	Photo 1252 Waccasassa River/Cow Creek vicinity of the proposed LNP, with dead cabbage palm and other trees from saltwater impacts
INT333	Bacchus	Photo 1269 dead pond-cypress and pine trees from destructive wildfire from hydroperiod alterations in Goethe State Forest vicinity of the proposed LNP
INT334	Bacchus	Skipped Number
INT335	Bacchus	Figure -- 1A
INT336	Bacchus	Figure -- 1B

INT337	Bacchus	Figure -- 1C
INT338	Bacchus	Figure -- 1D
INT339	Bacchus	Figure -- 1E
INT340	Bacchus	Figure -- 2
INT341	Bacchus	Figure -- 3A
INT342	Bacchus	Figure -- 3B
INT343	Bacchus	Figure -- 4
INT344	Bacchus	Narrative on figure exhibits
INT345	Bacchus	February 6, 2009 - Expert Declaration by Sydney T. Bacchus in Support of Petitioners' Standing to Intervene in this Proceeding
INT346	Bacchus	October 26, 2010 - Letter from Bacchus to Hambrick and Bruner re: preliminary comments on Draft EIS (DEIS) of Proposed Combined Licenses for Levy Nuclear Plant Units 1 and 2
INT347	Bacchus	November 12, 2010 - Affidavit of Sydney T. Bacchus in Support of Joint Interveners' Responses to Environmental Impacts of Proposed Levy Nuclear Plant Units 1 and 2
INT348	Bacchus	November 27, 2010 - Letter from Bacchus to Hambrick and Bruner re: Supplemental comments on Draft Environmental Impact Statement (DEIS) of Proposed Combined Licenses for Levy Nuclear Plant Units 1 and 2
INT349	Bacchus	March 12, 2012 - Letter from Bacchus to Hambrick and Bruner re: Second Supplemental Comments on Draft Environmental Impact Statement (DEIS) of Proposed Combined Licenses for Levy Nuclear Plant Units 1 and 2
INT350	Bacchus	April 26, 2012 - Letter from Bacchus to Hambrick and Bruner re: Third Supplemental Comments on Draft Environmental Impact Statement (DEIS) of Proposed Combined Licenses for Levy Nuclear Plant Units 1 and 2

INT351	Bacchus	Figure showing Cross-section of Floridan Aquifer System (originally in Fernald 1998)
INT352	Bacchus	Figure Based on Brook and Sun
INT353	Bacchus	Skipped Number
INT354	Bacchus	Littlefield, J. R., Culbreath, M. A., Upchurch, S. B. & Stewart, M. T. (1984). Relationship of modern sinkhole development to large scale-photolinear features. In B. F. Beck (Ed.), <i>Proceedings of First Multidisciplinary Conference on Sinkholes</i> (pp. 189-195). Orlando, Florida: A. A. Balkema Publishers, Accord, MA.
INT355	Bacchus	Brook, G. A. (1985). Geological factors influencing well productivity in the Dougherty Plain covered karst region of Georgia. In <i>Proceedings of the Ankara - Antalya Symposium</i> (pp. 87-99). IAHS Publication No. 161.
INT356	Bacchus	Skipped Number
INT357	Bacchus	Brook, G. A. & Allison, T. L. (1983). Fracture mapping and ground subsidence susceptibility modeling in covered karst terrain - the example of Dougherty County, Georgia. In Dougherty, P. H. (Ed.) <i>Environmental Karst</i> (pp. 91-108). GeoSpeleo Publications, Cincinnati, OH.
INT358	Bacchus	Brook, G. A., Sun, C-H. & Carver, R. E. (1988). Predicting water well productivity in the Dougherty Plain, Georgia. <i>Georgia Journal of Science</i> 46, 190-203.
INT359	Bacchus	Bacchus, S. T. (1998). Determining Sustainable Yield in the Southeastern Coastal Plain: A Need for New Approaches. In Borchers, J. & Elifrits, C. D. (Eds.) <i>Current Research and Case Studies of Land Subsidence</i> (pp. 503-519). Proceedings of the Joseph F. Poland Symposium.
INT360	Bacchus	Bacchus, S. T. (2000). Uncalculated impacts of unsustainable aquifer yield including evidence of subsurface interbasin flow. <i>Journal of American Water Resources Association</i> 36(3),457-481.
INT361	Bacchus	Stewart, M. T. & Stedje, D. (1990). Geophysical Investigation of Cypress Domes, West Central Florida. <i>Prepared by University of South Florida Geology Department for Southwest Florida Water Management District</i> . Brooksville, FL, pp. 103.

INT362	Bacchus	Temperature records from the National Weather Service's Brooksville station for the period of 1948 through 2010 (http://amazon.nws.noaa.gov/hdsb/data/archived/index.html)
INT363	Bacchus	Bacchus, S. T. (2006). Nonmechanical dewatering of the regional Floridan aquifer system. In Harmon, R. S. & C. Wicks (Eds.), <i>Perspectives on karst geomorphology, hydrology, and geochemistry – A tribute volume to Derek C. Ford and William B. White</i> (pp. 219-234). Geological Society of America Special Paper 404.
INT364	Bacchus	Enrix. 2010. Progress Energy Florida – Levy Nuclear Plant and Associated Transmission Lines Wetland Mitigation Plan. PA08-51B, Houston, Texas. (A10)
INT365	Bacchus	FSAR Rev2 2.4-3
INT366	Bacchus	Bacchus, et al, 2003 Near infrared spectroscopy of a hydroecological indicator: New tool for determining sustainable yield for Floridan aquifer system. <i>Hydrological Processes</i> 17, 1785-1809.
INT367	Bacchus	Map of Salinity in Gulf of Mexico - NOAA
INT368	Bacchus	Bacchus and Barile, 2005 Discriminating Sources and Flowpaths of Anthropogenic Nitrogen Discharges to Florida Springs, Streams and Lakes
INT369	Bacchus	Vernon, 1951 Fracture Trace Pattern
INT370	Bacchus	Faulkner, G. L. (1973). Geohydrology of the Cross-Florida Barge Canal Area with Special Reference to the Ocala Vicinity. U. S. Geological Survey Water Resources Investigation Report. pp. 125.
INT371	Bacchus	SWFWMD 1996 Surface Water / Ground Water Interrelationships
INT372	Bacchus	Emily Casey affidavit re: videos and photos
INT373	Bacchus	Emily Casey Video of swallets and other features, currently posted at: http://www.nirs.org/nukerelapse/levy/levyhome.htm and will be provided on DVD with testimony filing.

INT374	Bacchus	Article Chieftan Citizen Paper: Fade to Brown, Drought Impacts Yet Another Levy Spring
INT375	Bacchus	Ground Water Levels Continue to Plummet -- article Chieftan Citizen
INT376	Bacchus	Dan Hilliard Exhibit re Contaminated Well
INT377	Bacchus	Map of Hilliard Well location
INT378	Bacchus	FSAR 2.5 Figs A
INT379	Bacchus	FSAR 2.5 Figs B
INT380	Bacchus	Affidavit of Mitchell L. Griffin
INT381	Bacchus	Heung and Gobin 2010
INT382	Bacchus	CEQ Cumulative Effects Paper
INT383	Bacchus	DOAH Filing on Manatee
INT384	Bacchus	05-22-2012 Photo by Dan Hilliard
INT385	Bacchus	Hilliard OpEd
INT386	Bacchus	Levy Forest Service Fire Report
INT387	Bacchus	Skipped Number
INT388	Bacchus	FSAR 2.5-72
INT389	Bacchus	Tampa Bay Times: Dry Empty Caves Offer Grim Proof
INT390	Bacchus	Bacchus, S. T. (2007). More inconvenient truths: Wildfires and wetlands, SWANCC and Rapanos. <i>National Wetlands Newsletter</i> 29(11), 15-21.
INT391	Bacchus	Moser 1979
INT393	Bacchus	Photo 0984

INT394	Bacchus	Photo 1031
INT395	Bacchus	Photo 1139
INT396	Bacchus	Photo 1146
INT397	Bacchus	Photo 1147
INT398	Bacchus	Photo 1155
INT399	Bacchus	Photo 1011
INT400	Bacchus	Photo 1231
INT401	Bacchus	Skipped Number
INT402	Bacchus	USFWS Factsheets: What We Do
INT403	Bacchus	Florida Scrub Jay
INT404	Bacchus	Skipped Number
INT405	Bacchus	West Indian Manatee
INT406	Bacchus	Red Cockaded Woodpecker
INT407	Bacchus	Skipped number
INT408	Bacchus	Skipped Number
INT409	Bacchus	Skipped Number
INT410	Bacchus	Endangered Species Act
INT411	Bacchus	Skipped Number
INT412	Bacchus	Exhibit pulled from ENTRIX 2010 Mitigation Plan
INT413	Bacchus	Skipped Number

INT414	Bacchus	Suwannee River Water Water Management District Permits: Cedar Key municipal wells and sewer district;
INT415	Bacchus	Suwannee River Water Water Management District Permits (WUP): Horseshoe 11102
INT416	Bacchus	Skipped Number
INT417	Bacchus	Skipped Number
INT418	Bacchus	Wildlife Habitat Ranking Report
INT419	Bacchus	Raabe, E.A. & Bialkowska-Jelinska, E. (2010). Thermal Imaging of the Waccasassa Bay Preserve: Image Acquisition and Processing. USGS Open-File Report 2010-1120. pp. 70.
INT420	Bacchus	Skipped Number
INT421	Bacchus	Skipped Number
INT422	Bacchus	Skipped Number
INT423	Bacchus	Skipped Number
INT424	Bacchus	Skipped Number
INT425	Bacchus	Skipped number
INT426	Bacchus	Skipped number
INT427	Bacchus	Skipped Number
INT428	Bacchus	Lewelling, et al 1998 Assessment of the Hydraulic Connection Between Ground Water and the Peace River, West-Central Florida USGS
INT429	Bacchus	SWFMD hydrographs
INT430	Bacchus	Skipped Number
INT431	Bacchus	Letter from Save the Manatee Club

INT432	Bacchus	Email to Cara Campbell from Jerry Mallams
INT433	Bacchus	Swancar et al. 2000
INT434	Bacchus	Levy Staff Report on Knight Sand Mine
INT435	Bacchus	SWFWND Knight Sand Mine Permitted Drawings 102602
INT436	Bacchus	Skipped Number
INT437	Bacchus	Knight Sand Mine County Planning Zone Agenda
INT438	Bacchus	Map of Proposed Sand Mines
INT439	Bacchus	Skipped number.
INT440	Bacchus	Skipped number.
INT441	Bacchus	Skipped number.
INT442	Bacchus	Skipped number.
INT443	Bacchus	Skipped number.
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INT446	Bacchus	Skipped number.
INT447	Bacchus	Skipped number.