BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for Determination of Cost Effective Generation Alternative to Meet Need Prior to 2018, by Duke Energy Florida, Inc.)) DOCKET NO. 140111-EI)) Submitted for Filing _) August 20, 2014

CALPINE CONSTRUCTION FINANCE COMPANY, L.P.'S NOTICE OF SERVICE OF COMPLETE EXHIBIT PJH-1 TO THE DIRECT TESTIMONY OF PAUL J. HIBBARD

Calpine Construction Finance Company, L.P. ("Calpine") hereby provides Notice of Service of Complete Exhibit PJH-1 of the Direct Testimony of Paul J. Hibbard, which was filed with the Clerk's Office on July 15, 2014. Pages 2 and 3 of 8 of PJH-1 were inadvertently omitted during the scanning process before the document was filed. Calpine just learned of the missing page and is now resubmitting a complete copy of Exhibit PJH-1 to the Direct Testimony of Paul J. Hibbard.

Respectfully submitted this 20^{th} day of August, 2014.

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing was furnished to the following, by electronic delivery, on this $\underline{20th}$ day of August, 2014.

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Docket No. 140111-EI Resumé of Paul J. Hibbard PJH-1, Page 1 of 8

Exhibit PJH-1 Curriculum Vitae

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EDUCATION

Ph.D. program (coursework), Nuclear Engineering, University of California, Berkeley

M.S. in Energy and Resources, University of California, Berkeley Thesis: Safety and Environmental Hazards of Nuclear Reactor Designs

B.S. in Physics, University of Massachusetts, Amherst

PROFESSIONAL EXPERIENCE

2010 - Present Analysis Group, Inc., Boston, MA Vice President

2007 - 2010 MA Department of Public Utilities, Boston, MA

Chairman Member, Energy Facilities Siting Board Manager, New England States Committee on Electricity Treasurer, Executive Committee, Eastern Interconnect States' Planning Council Representative, New England Governors' Conference Power Planning Committee Member, NARUC Electricity Committee, Procurement Work Group

2003 - 2007 Analysis Group, Inc., Boston, MA Vice President Manager ('03 - '05)

2000 - 2003 Lexecon Inc., Cambridge, MA Senior Consultant Consultant ('00 - '02)

1998 - 2000 Massachusetts Department of Environmental Protection, Boston, MA Environmental Analyst

1991 - 1998 Massachusetts Department of Public Utilities, Boston, MA Senior Analyst, Electric Power Division

1988 - 1991 University of California, Berkeley, CA Research Assistant, Safety/Environmental Factors in Nuclear Designs

OTHER PROFESSIONAL ACTIVITIES

Advisory Board, Advanced Energy Economy (2011).

SELECTED REPORTS, TESTIMONY AND PRESENTATIONS

"Project Vigilance: Value of Ambri Batteries at Joint Base Cape Cod," Presentation to Raab Restructuring Roundtable, Boston MA, June 2014.

Hibbard, Paul and Todd Schatzki, *Further Explanation on Rate Calculations*, Memo to ISO New England Markets Committee on setting the compensation rate for the ISO Winter Program, May 28, 2014.

Hibbard, Paul J., Susan F. Tierney, and Pavel G. Darling, Economic Impact of the Green Communities Act in the Commonwealth of Massachusetts: Review of the Impacts of the First Six Years," March 4 2014.

Paul J. Hibbard and Andrea Okie, Crediting Greenhouse Gas Emission Reductions from Energy Efficiency Investments: Recommended Framework for Proposed Guidance on Quantifying Energy Savings and Emission Reductions in Section 111(d) State Plans Implementing the Carbon Pollution Standards for Existing Power Plants, Report for Environmental Defense Fund, March 2014.

"Climate Policy and the Economy," Presentation to 2014 JISEA Annual Meeting, NREL, Golden CO, March 2014.

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Hibbard, Paul, Steve Carpenter, Pavel Darling, Margaret Reilly, and Susan Tierney, *Project Vigilance: Functional Feasibility Study for the Installation of Ambri Energy Storage Batteries at Joint Base Cape Cod*, Report for demonstration project under the MassInnovate Program of the Massachusetts Clean Energy Center, February 2014.

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"Market Monitoring at US RTOs," Presentation to 12th Annual Gas and Power Institute, Houston, TX, August 2013.

Hibbard, Paul and Todd Schatzki, Assessment of the Impact of ISO-NE's Proposed Forward Capacity Market Performance Incentives, Report to ISO New England, September 2013.

Testimony of Paul J. Hibbard before the Massachusetts Department of Public Utilities on behalf of the Massachusetts Department of Energy Resources, DPU 13-07, May 31, 2013.

Testimony of Paul J. Hibbard before the House Committee on Energy and Commerce, Subcommittee on Energy and Power, *The Role of Regulators and Grid Operators in Meeting Natural Gas and Electric Coordination Challenges*, March 19, 2013.

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Paul Hibbard, Information from the Literature on the Potential Value of Measures that Improve System Reliability, Memo to ISO New England, January 24, 2013.

Paul Hibbard, Information on the Range of Costs Associated with Potential Market Responses to Address the Risks Associated with New England's Reliance on Natural Gas, Memo to ISO New England, January 24, 2013.

Craig Aubuchon and Paul Hibbard, Summary of Quantifiable Benefits and Costs Related to Select Targeted Infrastructure Replacement Programs, Report for the Barr Foundation, January 2013.

Hibbard, Paul J., Andrea M. Okie, and Pavel G. Darling, *Demand Response in Capacity Markets: Reliability, Dispatch and Emission Outcomes*, The Electricity Journal, November 2012.

"The Electric Generation Landscape – A Marathon of Challenges," Presentation to SNL Generation Landscape, Chicago IL, October 2012.

"Economics, EPA, and Old Capacity...Bring Out Your Dead," Presentation to LSI Energy in the Northeast, Boston MA, September 2012.

Hibbard, Paul J., Reliability and Emission Impacts of Stationary Engine-Backed Demand Response in Regional Power Markets, Report to the U.S. Environmental Protection Agency on behalf of Calpine Corporation, August 2012.

"Uncertainty in Electricity Infrastructure Development – Key Drivers, International Context," Presentation to NCEA Annual Conference, Brainerd, MN, June 2012.

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"Economic Impacts of RGGI," presentation to the New Hampshire Environmental Business Council, April 2012.

Testimony of Paul J. Hibbard before the California Legislature, *The Economic Impacts of RGGI's First Three Years*, California Select Committee on the Environment, the Economy, and Climate Change, March 27, 2012.

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"Economic Impacts of RGGI: Following the Dollars," presentation (with Sue Tierney) to the California Business Climate Network, February 2012.

Hibbard, Paul J. and Susan F. Tierney, Carbon Control and the Economy: Economic Impacts of RGGI's First Three Years, The Electricity Journal, December 2011.

"Public Policy Transmission: Competition and Cooperation," presentation to the Energy Bar Association Renewables Subcommittee, Washington DC, November 2011.

"Competitive Markets and Wind Power: Challenge and Opportunity," presented to the Governors' Wind Energy Coalition, Washington DC, November 2011.

Hibbard, Paul J., Susan F. Tierney, Andrea M. Okie and Pavel G. Darling, The Economic Impacts of the Regional Greenhouse Gas Initiative on Ten Northeast and Mid-Atlantic States; Review of the Use of RGGI Auction Proceeds from the First Three-Year Compliance Period, November 15, 2011.

Testimony before the Pennsylvania Public Utilities Commission on Retail Opt-In Auctions, November 10, 2011.

"Interdependence and Opportunity: The Growing Link Between Electricity and Natural Gas," presentation to the COGA Energy Epicenter Conference, Denver CO, August 2011.

"Potomac River Generating Station: Update on Reliability and Environmental Considerations," with Pavel Darling and Susan Tierney, July 19, 2011.

Hibbard, Paul J., Retirement is Coming; Preparing for New England's Capacity Transition, Public Utilities Fortnightly, June, 2011

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"Solar Development Incentives: Status of Colorado's Solar PV Program, Practices in Other States, and Suggestions for Next Steps," with Susan Tierney and Andrea Okie, June 30, 2011.

"The Balancing Act: Challenges in Traversing the Modernization of New England's Infrastructure," presentation to NECA Annual Conference, Mystic CT, May 2011.

"Renewables v. Gas: The Future of New England Infrastructure," presentation to the EBC Energy Seminar, Waltham, MA, April, 2011.

"Upcoming Power Sector Environmental Regulations: Framing the Issues About Potential Reliability/ Cost Impacts," presentation to Raab Restructuring Roundtable, Boston MA, October 2010.

"Carbon Regulation: Action and Convergence Spanning the Pond," presentation to Energy Smart Conference, Boston MA, October 2010.

"Renewables Development – A Tricky Time to be Placing Bets," presentation to NECA Renewables Committee, Boston MA, October 2010.

"Energy Infrastructure Challenges in the Current Policy Environment, A Wide Angle Point of View," presentation to NARUC, Providence RI, September 2010.

"Ensuring a Clean, Modern Electric Generating Fleet while Maintaining Electric System Reliability," with Susan F. Tierney, Michael J. Bradley, Christopher Van Atten, Amlan Saha, and Carrie Jenks. August 2010.

"Renewables Development – National Policies, New England Progress," presentation to National Association of State Energy Officials Annual Meeting, Boston MA, September 2010.

"Northeast US and Eastern Canada – Competitive Markets and Renewable Resource Development," presentation to LSI Conference on US/Canada Energy Transactions, Vancouver BC, August 2010.

"Renewables in the Northeast – Local Opportunities, National Context," presentation to Council of State Governments, Portland ME, August 2010.

"Deregulation and Sustainable Energy," class lecture, MIT (Jonathan Raab Energy Course), Cambridge MA, March 2010.

"Transmission for Renewables," presentation to Raab Restructuring Roundtable, Boston MA, March 2010.

"Federal Transmission Legislation," comments to Capitol Hill Briefing of the Coalition for Fair Transmission Policy, Washington DC, April 2010.

"Transmission Planning & Cost Allocation Alternatives under Order 890," comments to the Energy Bar Association's 64th Meeting, Washington DC, April 2010.

Docket No. 140111-EI Resumé of Paul J. Hibbard PJH-1, Page 5 of 8 July 2014 Page 5 of 8

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"New England Blueprint and the Federal Context," presentation to ISO-NE Consumer Liaison Group Meeting, Westborough MA, February 2010.

"Interconnection-Wide Planning and Renewable Energy," comments to the National Wind Coordinating Collaborative, Transmission Update Briefing, December 2009.

"Infrastructure Planning," comments to Northeast Energy and Commerce Association Power Markets Conference, Westborough MA, November 2009.

"Transmission for Renewables - Risks and Opportunities for the Northeast," Presentation to Governor's Clean Energy Innovation Forum, New Brunswick, NJ, October 2009.

"Renewable Energy Development – The Role of Markets and Planning," presentation to Northeast Power Planning Council General Meeting, Cambridge MA, September, 2009.

"Transmission Planning," comments to FERC Technical Conference on Transmission Planning Processes Under Order No. 890, Docket No. AD09-8-000, Philadelphia, PA, September, 2009.

"New England Governors' Blueprint – Purpose and Context," presentation to the Raab Restructuring Roundtable, Boston MA, September 2009.

"Wind, Transmission, and Federal Legislation," comments to MIT Wind Group, Cambridge MA, Fall, 2009.

"National Transmission Policy," comments to The Energy Daily's Transmission Siting Policy Summit, Washington DC, September 2009.

Testimony to the Massachusetts' Joint Committee on Telecommunications, Utilities and Energy Hearing to Review Implementation of the Green Communities Act, Boston MA, July 8, 2009.

"Federal Transmission Legislation," comments to the National Association of State Utility Consumer Advocates, Boston MA, July 2009.

"Renewable Energy Development - The Role of Markets and Planning," presentation to Governor's Wind Energy Coalition, Washington DC, July 2009.

"Transmission and Renewables: ISO and Regulator Perspectives" comments to the Raab Restructuring Roundtable, Boston MA, June 2009.

"Renewable Development In and For New England; Massachusetts' Perspective," presentation to Law Seminars International, Boston MA, June 2009.

"Roadmap to New Renewable Resources in New England," comments on New England Governors' Blueprint to NECPUC Annual Symposium, Newport, RI, May 2009.

"Comments of Chairman Paul Hibbard," presented to EBC Energy Seminar: New Transmission – The Key to Renewable Resource Integration in New England, Boston MA, April, 2009.

"Coordinating Wind and Transmission Development – Who Pays?" Comments to 2009 Platts Wind Power Development Conference, Chicago, IL, March, 2009.

"Integrating Energy and Environmental Regulations in Massachusetts," presentation to Northeast Sustainable Energy Association Building Energy Conference'09, Boston, MA, March, 2009.

"One Reason for the GCA: Energy Pricing in Massachusetts," presentation to the South Shore Coalition, Hingham MA, January 2009.

"Non-Reliability Transmission: State Choice and Control," presentation to the New England Conference of Public Utility Commissioners Transmission Group, Chelmsford MA, January 2009.

"Regulation and Renewable Energy Policy," panel moderator, Center for Resource Solutions National Renewable Energy Marketing Conference, Denver, CO, October, 2008.

"Energy Pricing in Massachusetts (...And What We Should Do About it)," presentation to Berkshire Gas Large Commercial and Industrial Customer Annual Meeting, Lenox MA, October, 2008.

"Conversation With Chairman Hibbard," presentation to New England Energy Alliance, Boston MA, September, 2008.

"Creating the Path: Delivering Clean Energy through Transmission Improvements," presentation to ISO-NE Lights, Power, Action Conference, Boston MA, September, 2008.

"Distributed Resources, the Decoupling Model, and the Green Communities Act," presentation to Raab Restructuring Roundtable, Boston MA, September, 2008.

"Resource Planning: The Contribution of Efficiency and Renewables in Massachusetts," presentation to Law Seminars International Renewable Energy in New England Conference, Boston MA, September 2008.

"Remarks to Economic Studies Working Group," ESWG Committee Meeting, Westborough MA, July 2008.

"Power Trade: Market Context and Opportunities," presentation to New England Governors' Council/Eastern Canadian Premiers' Energy Dialogue, Montreal Canada, May 2008.

"New England Transmission Investment," presentation to Municipal Electric Association of Massachusetts Annual Business Meeting, North Falmouth MA, April 2008.

"Bringing Power from the North," presentation to the Raab Restructuring Roundtable, Boston MA, February 2008.

"Natural Gas: Drivers of Supply, Demand, and Prices," comments to Guild of Gas Managers, November 2007.

"Generation and Demand Outlook for New England," presentation to NECA Dinner Meeting, Cambridge MA, September, 2007.

"Comments on ISO's Draft Regional System Plan," presentation to ISO Planning Advisory Committee, Boston MA, September 2007.

"Regulatory Pressures, Policy Opinions," presentation to Environmental Business Council, Boston MA, July 2007.

"Is New England Ensuring the Adequacy and Cost Effectiveness of the Region's Transmission Grid?" Panel moderator, New England Conference of Public Utility Commissioners Annual Symposium, Mystic CT, June 2007.

"Energy Regulation in Massachusetts – Concerns and Options," presentation to the Raab Restructuring Roundtable, Boston MA, June, 2007.

"View From the Regulatory Bench," comments to the New England Energy Conference and Exposition, Groton CT, May 2007.

"Energy for New England – The Demand, Supply and Price Context," presentation to Massachusetts Municipal Wholesale Electric Cooperative Annual Meeting, Boylston MA, May 2007.

"Demand Resources in New England: New Opportunities and Future Directions," Presentation at ISO-NE Annual Demand Resources Summit, Westborough MA, May 2007.

"Power Supply for the New England Region," presentation to the Boston Bar Association, Boston MA, March 2007.

Docket No. 140111-EI Resumé of Paul J. Hibbard PJH-1, Page 7 of 8 July 2014 Page 7 of 8

"Fuel Supplies and the Need for Fuel Diversity: Forecast for Global Fuel Markets and the Likely Impact on Electric Generation in the Northeast," presentation to LSI Seminar on Resource Adequacy and Reliability in the Northeast, October 16, 2006.

"Consumers and Politicians Claim They Want Cheap, Reliable and Clean Energy – Do They Have the Will to Make That Happen?" – presentation to NAESCO New England Regional Meeting, September 28, 2006.

"The Need for New LNG Infrastructure in Massachusetts and New England: An Update," Report prepared for Northeast Gateway Energy Bridge, L.L.C., and Algonquin Gas Transmission, LLC, August, 2006.

"Natural Gas & LNG for New England: What's Needed & How To Get It," presentation to the Foundation for American Communications Meeting on *New England's Energy Needs – Who Pays and Who Suffers?*" May 17, 2006.

"Energy Policy Act Section 1813 Comments: Report of the Ute Indian Tribe of the Uintah and Ouray Reservation for Submission to the US Departments of Energy and Interior," (with Susan F. Tierney, and In Cooperation With The Ute Indian Tribe of the Uintah and Ouray Reservation), May 15, 2006.

"US Energy Infrastructure Vulnerability: Lessons From the Gulf Coast Hurricanes," Report to the National Commission on Energy Policy, March 2006.

"New England Energy Infrastructure – Adequacy Assessment and Policy Review" (with Susan F. Tierney), prepared for the New England Energy Alliance, November, 2005.

"Federal Legislative Developments in Energy," presentation to LSI Seminar on Energy in the Northeast, October 2005.

"The Benefits of New LNG Infrastructure in Massachusetts and New England: The Northeast Gateway Project," (with Susan F. Tierney), prepared for Northeast Gateway Energy Bridge, L.L.C., and Algonquin Gas Transmission, LLC, June, 2005.

"Climate Change Policy – New Business and Regulatory Risks," presentation to EnviroExpo & Conference, May, 2005.

"Carbon Cap & Trade Allocation Options – Practical Considerations," "Carbon Trading Program Emission Allowances: Practical Considerations for Allocation," and "Allocation of Carbon Allowances to Mitigate Electric Sector Costs," Reports to the National Commission on Energy Policy, May 2005.

"U.S. Energy Infrastructure: Demand, Supply and Facility Siting," Report to the National Commission on Energy Policy, November 2004.

"Comments of Susan F. Tierney and Paul. J. Hibbard on their own behalf," before the Federal Energy Regulatory Commission, in the Matters of Solicitation Processes for Public Utilities (Docket No. PL04-6-000) and Acquisition and Disposition of Merchant Generation Assets by Public Utilities (Docket No. PL04-9-000), on the role of independent monitors and independent evaluators in public utility resource solicitations, July 1, 2004.

"Energy and Environmental Policy in the United States: Synergies and Challenges in the Electric Industry" (with Susan F. Tierney), prepared for Le Centre Français sur les Etats-Unis (The French Center on the United States), July, 2003.

"Controlling China's Power Plant Emissions after Utility Restructuring: The Role of Output-Based Emission Controls" (with B.A. Finamore, N. Seidman, and T. Szymanski), *The Sinosphere Journal*, July 2002.

"Siting Power Plants in the New Electric Industry Structure: Lessons from California and Best Practices for Other States" (with S. Tierney), *The Electricity Journal*, June 2002.

Docket No. 140111-EI Resumé of Paul J. Hibbard PJH-1, Page 8 of 8 July 2014 Page 8 of 8

"Siting Power Plants: Recent Experience in California and Best Practices in Other States" (with S. Tierney), prepared for The Hewlett Foundation and The Energy Foundation, February 2002.

"Setting and Administering Output-Based Emission Standards for the Power Sector: A Case Study of the Massachusetts Output-Based Emission Control Programs" (with N. Seidman and B. Finamore), prepared for the China Sustainable Energy Program, October 2001.

Before the Federal Energy Regulatory Commission, New England Power Pool and ISO New England, Inc., Docket No. ER01-2329, Joint Affidavit (with J. Besser) on behalf of the New England Renewable Power Producers Association, July 3, 2001.

"Output-Based Emission Control Programs – U.S. Experience" (with N. Seidman, B. Finamore, and D. Moskovitz), prepared for the China Sustainable Energy Program, May 2000.

"P2 and Power Plants: The Massachusetts Allowance Trading Program," in *Proceedings of the National Pollution Prevention Roundtable*, March 2000.

"Safety and Environmental Comparisons of Stainless Steel with Alternative Structural Materials for Fusion Reactors" (with A.P. Kinzig and J.P. Holdren), *Fusion Technology*, August 1994.

"Utility Environmental Impacts: Incentives and Opportunities for Policy Coordination in the New England Region," US EPA CX817494-01-0, RCEE Core Group, June 1994.

"Final Report: Code Development Incorporating Environmental, Safety, and Economic Aspects of Fusion Reactors," UC-BFE-027, Fusion Environmental and Safety Group, University of California, Berkeley, 1991.