(Case No. 95,444, etal.)

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1	BEFORE THE FLORIDA PUBLIC SERVICE COMMISSIC	N	
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4	In Re: Joint petition for determination)DOCKET NO. of need for an electrical power plant )981042-EM		
5	in Volusia County by the Utilities ) Commission, City of New Smyrna Beach, )		
6			
7			
8	Pages 683 through 755		
9	PROCEEDINGS: HEARING		
10	BEFORE: CHAIRMAN JULIA L. JOHNSON	г	
11	COMMISSIONER J. TERRY DEA COMMISSIONER SUSAN F. CLA		
12	COMMISSIONER JOE GARCIA COMMISSIONER E. LEON JACO	BS	
13	DATE: Wednesday, December 3, 19	98	
14	TIME: Commenced at 9:30 a.m.		
15	PLACE: Betty Easley Conference C	enter	
16	4075 Esplanade Way		
17			
18	REPORTED BY: NANCY S. METZKE, RPR	, CCR	
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INDEX PAGE NO. DALE M. NESBITT Direct Examination by Mr. McGlothlin. . . Prefiled Direct Testimony Inserted . . . Voir Dire Examination by Mr. Guyton . . . Continued Direct Examination by Mr. McGlothlin . . . . C & N REPORTERS TALLAHASSEE, FLORIDA (850)697-8314

INDEX OF EXHIBITS NUMBER ID ADMTD #16 Dr. Nesbitt's portion of the joint exhibit . . . 691 #18 Composite Exhibits of Dr. Nesbitt's direct testimony . . . 688 C & N REPORTERS TALLAHASSEE, FLORIDA (850)697-8314

1 PROCEEDINGS 2 (Transcript Continues in Sequence from Volume 4) 3 Whereupon, DALE M. NESBITT 4 5 was called as a witness by the Joint Petitioners and, after being first duly sworn, testified as follows: 6 7 8 DIRECT EXAMINATION 9 BY MR. McGLOTHLIN: Please state your name and business address, sir. 10 0 My name is Dale M. Nesbitt. My business address 11 Α 12 is Altos Management Partners, 1250 Aviation Avenue, Suite 200-C, San Jose, with a J, California, 95110. 13 0 By whom are you employed? 14 15 Α I'm employed with Altos -- by Altos Management Partners. 16 17 0 And for whom do you appear in this proceeding? 18 Α I appear for the Utilities Commission of New Smyrna Beach and the Duke New Smyrna Beach L.L.P. 19 Doctor Nesbitt, did you prepare and submit 20 0 21 prefiled direct testimony in this proceeding? 22 Α I did. Do you have it before you, sir? 23 Q T do. Α 24 Do you have any changes, corrections or additions 25 0 C & N REPORTERS TALLAHASSEE, FLORIDA (850)697-8314

to the prefiled testimony? 1 Yes, I do have several changes to the prefiled 2 Α 3 testimony. 4 Ο Would you identify those, please? The first such change occurs on Page 13, 5 Α Yes. Line 25. Note six thousand megawatts, that six thousand 6 should be 54 hundred megawatts, five thousand four 7 hundred. 8 9 And on Page 14, line 5, the same six thousand megawatt number should read five thousand four hundred 10 11 megawatts. Ο With those changes, sir, do you adopt the 12 prefiled testimony as your testimony given today? 13 Α Excuse me. No, I have a couple more changes, 14 please. 15 16 On Page 39, Line 3, the number 69 should be replaced by the number 83. And on line 4, same page, Page 17 39, the number 92 should be replaced by the number 94. 18 And I have a third change in the exhibit DMN-15. 19 20 0 We'll get to those separately, Doctor Nesbitt. With respect to the prefiled direct testimony, do you have 21 any other changes? 22 А No, that concludes the changes. 23 24 0 As corrected or modified, do you accept the -adopt the prefiled direct testimony as your testimony here 25

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688 today? 1 2 Α I do. 3 0 Now did you also prepare or supervise the 4 preparation of exhibits identified as DMN-1 through 16? Yes, I did. 5 Α 6 MR. McGLOTHLIN: I ask that an exhibit number be 7 assigned to the exhibits attached to the prefiled testimony. 8 And what's the short 9 CHAIRMAN JOHNSON: 19. 10 title? MR. McGLOTHLIN: It's composite exhibits of 11 Doctor Dale Nesbitt's direct testimony. 12 13 CHAIRMAN JOHNSON: Okay. MR. GUYTON: Madam Chairman, I have only 17. 14 Have I missed an exhibit here? 15 CHAIRMAN JOHNSON: I think that's the one that 16 might have been the question. I marked as 18 -- is 17 Mr. Wright here? -- in Mr. Green's testimony the Figures 1 18 and 2 in the exhibits filed from August 19th, 1998, as well 19 as Sections 2.A, 2.3, 2.D that he identified in his 20 particular testimony. I thought that Scheff wanted those 21 identified separately. 22 23 MR. WRIGHT: Madam Chairman, that is my confusion for which I apologize that I have created. I meant to 24 identify them as part of what had already identified as 16. 25 TALLAHASSEE, FLORIDA (850)697-8314 C & N REPORTERS

1 CHAIRMAN JOHNSON: So you wanted all that to come 2 in in 16? 3 MR. WRIGHT: Yes, ma'am. 4 CHAIRMAN JOHNSON: The whole filing? 5 MR. WRIGHT: Yes, ma'am, so it can stay together. CHAIRMAN JOHNSON: Okay. I thought --6 7 MR. WRIGHT: And I apologize for the confusion. 8 I was actually in my car to see if we had an extra unwritten on copy that I could provide right now. 9 CHAIRMAN JOHNSON: Okay. 10 11 MR. WRIGHT: Everybody has had it. We filed it on August 19th. 12 CHAIRMAN JOHNSON: Sure. Okay. 13 So --14 MR. WRIGHT: So? CHAIRMAN JOHNSON: That's fine. I'll treat that 15 then as --So you didn't need to identify it again; it 16 had already been admitted? 17 MR. WRIGHT: It has been identified as Exhibit 16 18 with respect to those parts thereof that Mr. Vaden 19 sponsored through his testimony. 20 CHAIRMAN JOHNSON: I see. 21 I think I'm following What I was following you -- I thought you had said 22 you. was Vaden -- you wanted to identify certain excerpts and 23 they had been admitted, those excerpts had been admitted. 24 25 MR. WRIGHT: Right. I --

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1 CHAIRMAN JOHNSON: And now you just want to admit 2 the other ones?

3 MR. WRIGHT: I had been thinking to do it the way I conceive of it as being by the book, Madam Chairman; and 4 that is, to identify those parts sponsored by each witness 5 6 and go forward with them, identify them at the outset of each witness's testimony and move them at the conclusion of 7 each witness's the testimony. My colleague to my right, 8 Mr. Moyle, obviously had the very good and efficient idea 9 of just moving the whole thing all at once were there to be 10 no objection, and so I was trying to facilitate that as I 11 was running out to my car. 12

CHAIRMAN JOHNSON: Okay. Very good.

13

MR. WRIGHT: And we might be able to just ask -we might be able to just ask right now if everybody knows. The filing document has been -- it's been here and been in all parties' possession since August 19th. I think, be it without objection, I'll furnish a clean copy to the court reporter by tomorrow morning.

20 CHAIRMAN JOHNSON: Any objections to admitting 21 the filing document?

22 MR. GUYTON: Commissioners, Florida Power & Light 23 is going to raise an objection to at least part of it. 24 CHAIRMAN JOHNSON: Okay. So we'll have to go 25 segment by segment.

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MR. WRIGHT: Okay.

1 2 CHAIRMAN JOHNSON: Now did we admit the portions 3 that were sponsored by Green? 4 MR. WRIGHT: Yes, ma'am, I believe so. 5 CHAIRMAN JOHNSON: Okay. I understand. So then -- so that the record is clear, there is no separate 6 Exhibit 18 that relate to the filing document; and, 7 8 therefore, the next exhibit will be Exhibit 18, and that is the composite exhibit. 9 MR. McGLOTHLIN: And while we are on that 10 11 subject, Chairman Johnson: Doctor Nesbitt, did you also prepare or supervise the preparation of what has been 12 identified as Table 10 and Part 1 of Table 15 which is 13 attached to the August 19th exhibits? 14 WITNESS NESBITT: Yes, I did. 15 MR. McGLOTHLIN: And that would be part of what 16 has been identified as 16 as I understand your ruling? 17 CHAIRMAN JOHNSON: Uh-huh. 18 MR. McGLOTHLIN: I ask that the prefiled direct 19 testimony be inserted into the record as though read at 20 21 this point. CHAIRMAN JOHNSON: It will be inserted into the 22 record as though read. 23 24 25 C & N REPORTERS TALLAHASSEE, FLORIDA (850)697 - 8314

## IN RE: JOINT PETITION FOR DETERMINATION OF NEED BY THE UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FLORIDA AND DUKE ENERGY NEW SMYRNA BEACH POWER COMPANY, FPSC DOCKET NO. 981042-EM

DIRECT TESTIMONY OF DALE M. NESBITT, Ph.D.

#### 1 Q: Please state your name and business address.

A: My name is Dale M. Nesbitt and my business address is Altos
Management Partners Inc., 1250 Aviation Avenue, Suite 200C,
San Jose, CA 95110.

5

6

## Q: By whom are you employed and in what positions?

I am presently Chief Executive Officer and President of Altos 7 A: Management Partners Inc. 1250 Aviation Avenue, Suite 200C, 8 9 San Jose, CA 95110. Altos Management Partners Inc. is a 10 Management Consulting firm. I am also a Director, President 11 and Chief Executive Officer of MarketPoint Inc., 27121 Adonna Ct., Los Altos Hills, CA 94022. 12 MarketPoint Inc. is a 13 software development and support firm. I am also a Director 14 and Vice President of Reticle Inc., 27121 Adonna Ct., Los Altos Hills, CA 94022. Reticle is a chemical and mineral 15 16 technology company.

17

#### 18 Q: Please describe your duties with Altos Management Partners.

A: I helped found Altos Management Partners Inc. in 1995 and
 assumed the position of Chief Executive Officer and President
 of Altos Management Partners in January 1998. I am
 responsible for business development, leadership, technology

development, communication, strategic technique 1 and direction, project supervision, staff development, and other 2 fiduciary and management roles at Altos. My duties include 3 working on client projects in addition to the foregoing 4 I founded MarketPoint Inc. in 1996 and assumed the roles. 5 position of President and Chief Executive Officer at that 6 time. I am responsible for business development, leadership, 7 software development, training, documentation, communication, 8 staff development, project supervision, and other fiduciary 9 and management roles at MarketPoint. In 1998, I founded 10 Reticle Inc. and presently serve as a director and Vice 11 My duties include marketing and business President. 12 development. 13

14

15

# PROFESSIONAL QUALIFICATIONS AND EXPERIENCE

Please summarize your educational background and experience. 16 0: I earned a B.S. degree in Engineering Science from the 17 A: University of Nevada, Reno with high honors in 1969. Ι 18 earned an M.S. degree in Mechanical Engineering from Stanford 19 University in 1970, another M.S. degree in Engineering-20 Economic Systems from Stanford University in 1972, and a 21 Ph.D. degree in Engineering-Economic Systems from Stanford 22 University in 1975. My doctoral dissertation was accepted 23 with honors from Stanford. I am a member of Phi Kappa Phi 24 (national honorary society) and Sigma Tau (national honorary 25 26 engineering society).

#### DIRECT TESTIMONY OF DR. DALE M. NESBITT

#### 1 Q: Please summarize your employment history and work experience. 2 A: I joined Xerox Corporation at their Palo Alto Research Center 3 in 1972 as an analyst in the management systems group. In 1974, I left Xerox to join Stanford Research Institute (SRI) 4 5 as a Decision Analyst in its Decision Analysis Group. When 6 I left SRI in 1977, I was Manager, Decision Analysis-Energy. 7 In 1977, I co-founded Decision Focus Incorporated (DFI), a 8 private management consulting firm practicing in the oil, 9 gas, electricity, telecommunications, air transportation, 10 leisure services, environment, and high technology 11 industries. I later helped found and later joined Altos 12 Management Partners, originally as a Senior Consultant and 13 now as Chief Executive Officer, and President, where I have 14 helped consolidate Altos' oil, gas, and electricity modeling 15 and management consulting practice. Altos' services now 16 include short and long run models of North American gas (NARG), North American electricity, world and North American 17 oil markets, a World Gas Trade program, a Western European 18 19 gas program, a Southern Cone of South America Gas Model, a 20 Southeast Australia Gas Model, an Electric Asset Operational Model, an asset valuation model, and a risk management and 21 22 probabilistic analysis model. I recently founded MarketPoint 23 Inc., which develops, sells, and supports economic modeling 24 software, and Reticle, Inc., a chemical and mineral 25 technology company. During my time in the consulting 26 business, which has been continuous since 1974, I have served

most of the multinational oil companies based in North
 America, most of the North American natural gas pipelines,
 and a number of North American electric companies.

4

# 5

# 5 Q: Have you previously testified before regulatory authorities 6 or courts?

7 A: Yes. I have provided testimony to a number of different 8 state and national regulatory bodies. For example, I have 9 testified before the Economic Regulatory Administration of 10 the United States government in support of the TransAlaska 11 Gas Pipeline System. I provided testimony before the 12 National Energy Board of Canada in support of the McKenzie 13 Delta pipeline (in behalf of Gulf, Exxon, and Shell) and in a different proceeding provided testimony in behalf 14 of TransCanada's application for eastward expansion. 15 Ι testified before the Federal Energy Regulatory Commission in 16 17 support of Pacific Gas Transmission Company's ("PGT") roll-in 18 I provided testimony before the British application. Columbia Utilities Commission (BCUC) in behalf of BC Gas' 19 20 application for the Southern Crossing pipeline project. I 21 provided testimony before the California Public Utilities 22 Commission in support of Pacific Gas and Electric's 23 application for rate relief and roll-in regarding Lines 400 24 I have provided testimony before the California and 401. Energy Commission on a number of issues ranging from Southern 25 26 California Edison's application for a firm transportation

#### DIRECT TESTIMONY OF DR. DALE M. NESBITT

agreement on PGT to offering information regarding appropriate discount rates and rates of return to ascribe to private companies who endeavor to enter California.

# PURPOSE AND SUMMARY OF TESTIMONY

# 6 Q: What is the purpose of your testimony in this proceeding? 7 A: I am testifying on behalf of the Utilities Commission of New 8 Smyrna Beach, Florida ("UCNSB"), and Duke Energy New Smyrna 9 Beach Power Company Ltd., L.L.P. ("Duke New Smyrna"), the 10 joint applicants for the Commission's determination of need 11 for the New Smyrna Beach Power Project (or "the Project").

12

5

# 13 Q: What are the key questions addressed by your testimony?

14 A: My testimony addresses several questions related to the New
15 Smyrna Beach Power Project, including the following:

Is there a need for 500 MW of electric generation
 capacity and associated energy production in the
 Peninsular Florida market? The answer is yes, and the
 need is immediate.

20 2. Is the proposed New Smyrna Beach Power Project the most 21 cost-effective option to provide this capacity and 22 energy? The answer is yes; the natural gas combined 23 cycle technology of the New Smyrna Beach Power Project 24 is the most cost-effective option for capacity and 25 energy in the Peninsular Florida market. It is better than gas simple cycle, coal, oil, or other technologies. 26

Will the Duke New Smyrna Beach project be economically 1 3. viable? The answer is yes. It will impose zero risk on 2 Florida ratepayers because it is a merchant plant, 3 reduce prices in the Florida market by virtue of its 4 entry, and make money for its owners. 5 Will energy from the Duke New Smyrna Beach project be 4. 6 sold out of state? The answer is no, but even if it 7 were, it would be strictly excess with regard to the 8

9 Florida market.

- What benefits, if any, will the Duke New Smyrna Beach 10 5. project provide to Florida ratepayers? It will increase 11 energy supply, decreasing Peninsular Florida energy 12 prices relative to where they would otherwise be as a 13 result. It will impose zero risk on Florida ratepayers. 14 Florida ratepayers will not be obliged to buy energy or 15 capacity from the project unless it is cheaper than all 16 competing alternatives. It will reduce environmental 17 emissions relative to what otherwise would occur because 18 it is based on a low heat rate gas combined cycle 19 20 configuration.
- 21

22 Q: Are you sponsoring any exhibits to your testimony?

 A. Yes. I am sponsoring the following exhibits to my testimony.
 DMN-1. Altos North American Regional Electric Model (graphic).

- 1DMN-2.Altos North American Regional Gas Model ("NARG2Model) (graphic).
- 3 DMN-3. 1998 Florida Load Duration Curve.
- 4 DMN-4. 1998 SERC/Southern Load Duration Curve.
- 5 DMN-5. Florida Capacity per NERC
- 6 DMN-6. Southern Capacity per NERC.
- 7 DMN-7. New Smyrna Beach Power Project, Projected
  8 Operations and Fuel Savings.

9 DMN-8. Florida - 1998 Baseload (40%).

- 10DMN-9.FloridaDispatch-1998HighLoadFactor11Intermediate (25%).
- 12 DMN-10. Florida Dispatch 1998 Low Load Factor
   13 Intermediate (15%).
- 14 DMN-11. Florida Dispatch 1998 High Load Factor Peak 15 (15%).

16 DMN-12. Florida Dispatch - 1998 SuperPeak (5%).

- DMN-13. Comparative Electricity Production Costs, SERC &
  FRCC, 1995-1998.
- DMN-14. Benefits of Duke New Smyrna Beach Power Project
  (graphic).
- 21DMN-15.AchievingCompetitiveAdvantageThrough22QuantitativeElectricAssetValuationUsing the23AltosNorthAmericanRegionalElectricityModel.
- 24DMN-16.Overview of the North American Regional Gas (NARG)25Model.

26

I am also sponsoring Table 10 and Part I of Table 15

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1		contained in the Exhibits submitted on August 19, 1998.
2		
3		METHODOLOGY
4	Q.	How have you addressed the foregoing questions regarding the
5		New Smyrna Beach Power Project?
6	A:	I have developed the information necessary to answer the
7		foregoing questions by combining my company's (Altos's) North
8		American Regional Electricity Model ("the Altos Model" or
9		"the Altos Electric Model") illustrated in Exhibit (DMN-
10		1) and described more fully in Exhibit (DMN-15), the
11		associated Altos data base for that model, the North American
12		Regional Gas (NARG) Model illustrated in Exhibit (DMN-2)
13		and described more fully in Exhibit (DMN-16), and
14		Altos's experience in the gas and electricity businesses.
15		
16	Q:	Please provide a brief history and methodology of the Altos
17		North American Regional Electricity Model.
18	A:	The Altos North American Regional Electricity Model is a 32-

19 region integrated model of the North American electricity system that includes generation, transmission, consumption, 20 21 fuels, and fuel competition. The Altos Electric Model includes all of the generation regions, all of the existing 22 and prospective transmission interconnections, and all of the 23 demand regions of North America. Generally speaking, the 24 Altos Model includes all of the reliability coordinating 25 26 regions in the U.S., Canada, and Mexico, plus numerous sub-

regions. For example, the model treats the Southern Electric Reliability Council region ("SERC") as four separate subregions: the Southern Company system, TVA, VCR (Virginia and the Carolinas), and Entergy, which was formerly designated as the southeastern component of the Southwestern Power Pool.

The Altos Electricity Model includes transmission system 6 7 integration and interconnection, consideration of multiple 8 fuels and energy products, existing capacity and its cost 9 structure, future changes in the cost structure of existing 10 plants, retirements and decommissioning, new generation plant 11 entry, inbound and outbound transmission capabilities, transmission entry, and demands and load shapes that vary 12 13 over time within each region. In evaluating future capacity 14 energy needs, the Altos Model considers the following generating technologies: gas/oil combustion turbine, gas 15 combined cycle, oil combined cycle, pulverized coal, coal 16 17 gasification combined cycle, nuclear, gas/oil steam, and 18 waste-to-energy.

19 The North American Regional Gas Model (the "NARG Model") 20 includes all gas supply basins, all existing and prospective interconnecting pipelines, and all of the gas demand regions 21 22 of North American. In the NARG Model, each category of 23 resource in each supply region is characterized by a detailed supply sub-model, each pipeline is characterized by a 24 25 detailed transportation sub-model, and each demand region is 26 characterized by a detailed demand sub-model. The NARG Model

#### DIRECT TESTIMONY OF DR. DALE M. NESBITT

1 estimates, over time, the set of regional prices that 2 simultaneously clear the markets in every wellhead, 3 wholesale, and other market in North America.

4 Exhibits \_\_\_\_ (DMN-15) and (DMN-16) to my testimony summarize the history and methodology of the Altos North 5 American Regional Electricity Model and the NARG Model. 6

- 7
- 8

#### Q: Who uses the Altos North American Regional Electricity Model 9 and the NARG Model?

10 A: Many of the major producers and pipelines and a number of the 11 electric companies in North America have used my NARG and 12 North American Electricity Models. I am allowed to disclose 13 nothing other than the names of those users, the list of 14 which includes Amoco, Arco, Associated Electric Cooperative, Inc., BC Gas, BHP Petroleum (Broken Hills), BP, British Gas 15 16 Corporation, California Energy Commission, Canadian Energy 17 Research Institute, Chase Manhattan Bank, CIA, 18 Coastal/Colorado Interstate Gas, Conoco/DuPont, DOE/EIA, Duke 19 Energy/Panhandle Eastern, El Paso, Enron, Exxon, LLL, LBL, 20 Argonne, Oak Ridge, Los Alamos, MidCon/Occidental Petroleum, 21 Mobil, National Energy Board of Canada, Nova Corporation, 22 Oklahoma Gas and Electric, PanCanadian, Pennsylvania Power 23 and Light, Petro-Canada, PG&E/PGT, Shell, So Cal Edison (SCE 24 Corp.), Sonat, Texas Utilities Corporation, TransCanada 25 Pipeline Corporation, TVA, and the Williams Companies. I can 26 disclose what the foregoing users might have chosen to put

into the public domain.

2

1

3 Has the model been independently validated by a third party? Q: 4 A: The Energy Information Administration ("EIA") of the Yes. 5 United States government decided in 1980-1 to independently 6 validate the GEMS model (GEMS was the tradename of our model 7 at that time.) EIA expended in excess of \$1 million (in 1981 dollars) with Oak Ridge National Laboratories to validate our 8 9 GEMS. In particular, EIA endeavored to verify and validate the software, data, results, underlying economic theory, 10 suitability and completeness of documentation, accuracy of 11 12 forecasts, proper program implementation, sensitivity analysis, and other relevant attributes of the program. 13 In effect, EIA subjected GEMS to a severe and comprehensive 14 15 professional peer review in order to ensure that it was 16 operating correctly and was appropriate for EIA's intended 17 needs. (In EIA's judgment, Oak Ridge was an independent third party who could perform an objective, disinterested, 18 19 credible, independent, third party validation.) As part of the validation, Oak Ridge made a number of suggestions (which 20 21 were ultimately incorporated into our model and software), 22 and they gave the GEMS approach and software a clean bill of 23 To my knowledge, our GEMS is the only model in health. 24 existence that has been independently validated to such a 25 degree.

26

DIRECT TESTIMONY OF DR. DALE M. NESBITT

Q: Before leading us through your detailed results, could you
 summarize the cost structure and performance you have assumed
 for the New Smyrna Beach Power Project?

I have assumed that the heat rate of the New Smyrna Beach 4 A: Power Project will be 6,832 Btu per KWh at full load. 5 Because the Altos Electric Model projects substantial run 6 times for the New Smyrna Beach Power Project, I have not 7 considered partial load heat rate performance of the facility 8 (i.e., heat rate curves). I have assumed that the fully 9 commoditized, variable, all-in, forward operating and 10 maintenance cost of the New Smyrna Beach Power Project will 11 This is consistent with what at least one be \$2.30/MWH. 12 vendor is offering in new combined cycle equipment it 13 I understand from Duke New Smyrna that proposes to build. 14 the projected in-service cost of the 500 MW New Smyrna Beach 15 Project, including the transmission interconnection to the 16 Smyrna Substation of the UCNSB, is approximately \$160 17 This cost estimate includes permitting costs but 18 million. does not include the costs of downstream transmission 19 upgrades. 20

21

22 Q: Have you used Duke New Smyrna or UCNSB proprietary or 23 confidential assumptions, data, or analysis in preparing your 24 testimony?

A: Not to my knowledge. My testimony is based on my own workand assumptions and that of my Altos colleagues, particularly

#### DIRECT TESTIMONY OF DR. DALE M. NESBITT

Michael C. Blaha, with whom I have collaborated in preparing 1 2 this testimony. While the work underlying this testimony was done under sponsorship by Duke New Smyrna, the work 3 represents my and Altos's best judgment. To wit, the forward 4 5 price calculations and their implications for the project are drawn from Altos's models, data, analyses, and personnel. 6 7 They are not drawn from proprietary or confidential data from Duke New Smyrna, the UCNSB, or any of their affiliates, nor 8 9 are they drawn from analysis or data provided by Duke New Smyrna or the UCNSB. My objective has been to apply and put 10 11 forth my and Altos' best professional analysis and judgment 12 based on our best available technology, experience, and data, not to mirror Duke New Smyrna's or the UCNSB's analyses or 13 14 projections.

15

16

NEED FOR THE NEW SMYRNA BEACH POWER PROJECT

17 Q: Is there a need for 500 MW of new electric generation
 18 capacity and associated energy production in the Peninsular
 19 Florida market?

20 A: Yes, there is a need for more than 500 MW of new electric 21 generation capacity and associated energy production in the 22 Peninsular Florida market, the need is immediate, and the 23 need is growing over time. The Altos North American Regional 24 Electricity Model projects economically viable and profitable 25 new additions of up to 6,000 MW of new gas-fired combined 26 cycle ("CC") power plants in Peninsular Florida, which I use

# DIRECT TESTIMONY OF DR. DALE M. NESBITT

1 synonymously with the Florida Reliability Coordinating 2 Council ("FRCC") region, and several tens of thousands of MW of new gas CC entry elsewhere throughout North America. Our 3 predicted substantial quantity of new installed capacity in 4 5 Peninsular Florida--6,000 MW--is approximately twice the quantity of new capacity that FRCC itself reported to NERC in 6 7 FRCC's 1997 OE411 Annual Report. This is a strong statement in favor of the viability, need, and strong positive 8 contribution of new gas CC capacity entry into the Florida 9 10 market of the type Duke New Smyrna is proposing. In summary, there is a need for more than the 500 MW proposed by Duke New 11 12 Smyrna.

13 I should emphasize that I have not approached the question of "need" simplistically by measuring peak Florida 14 15 demand (expressed in GW); adding up available installed 16 capacity (expressed in GW), and comparing the two using some 17 criterion such as reserve margin or loss-of-load-probability. 18 (I should add, however, that even this simplistic comparison would underscore the need for projects such as the New Smyrna 19 Beach Power Project). A simplistic "add up the installed 20 21 capacity and compare against peak demand" notion of "need" such as the forgoing misses the fundamental reality that some 22 23 of the old installed capacity in Florida is higher in cost 24 than what new capacity could be installed for. Installing new capacity will eliminate old, uneconomic capacity, obviate 25 26 the requirement to preserve and/or run it, and reduce the

#### DIRECT TESTIMONY OF DR. DALE M. NESBITT

intrinsic cost to generate electricity in Florida. A
critically important element of the need for new capacity is
the need to retire old, uneconomic, and usually pollutionintensive capacity. (By analogy, the "need" for a new car is
a need to retire your old 1972 Chevy Vega you would otherwise
have to maintain and drive, thereby avoiding the much higher
operating and maintenance cost and downtime of the Vega.)

8 The Altos Electric Model predicts that there are few places in North American where the need for new gas CC 9 10 generation is more acute and more immediate than in 11 Peninsular Florida. Florida is growing, and Florida 12 electricity is expensive. New capacity such as the New Smyrna Beach Power Project is needed to meet inevitable 13 growth in the state, ameliorate the current and future market 14 15 price, and provide economic benefits via reduced market prices to the state of Florida. 16

17

# 18 Q: What is the historical and projected future load situation in Florida?

Altos has assembled hourly reported data for every hour in 20 A: the past five years (including 1997) for every reporting 21 entity in Florida (and elsewhere in the United States). This 22 data has allowed us to assemble average daily load shapes, 23 24 maximum daily load shapes, monthly load duration curves, and annual load duration curves for the Peninsular Florida 25 Exhibit (DMN-3) depicts the load situation in 26 market.

#### DIRECT TESTIMONY OF DR. DALE M. NESBITT

1 Peninsular Florida inferred from reported hourly loads during every hour of the past five years. Exhibit (DMN-3) 2 indicates within each monthly time interval the average daily 3 load shape for days in that month, the maximum daily load 4 shape, and the minimum daily load shape. (The daily curves 5 are the up-down-up-down curves shown for each month in the 6 figure.) The hourly loads are ordered by hour in the month 7 from highest load hour in the month down to lowest load hour 8 This process of ordering from highest to 9 in the month. lowest produces the monthly load duration curves, which are 10 the downward sloping curves in the exhibit beginning at the 11 start of each indicated month and ending at the end of that 12 month. The exhibit also indicates the annual load duration 13 curve beginning at the upper left and dropping to the lower 14 right of the entire diagram. The annual load duration curve 15 is the ordered set of annual loads from highest to lowest in 16 These are the fundamental historical descending order. 17 demand data that characterizes the Peninsular Florida market 18 in aggregate. (Altos has undertaken this task for every one 19 of the 32 regions of North America that are represented in 20 the Altos Model so that we can understand the hourly, weekly, 21 monthly, and annual demand profiles over the past five years 22 and can reliably extrapolate it to the future.) 23

As seen in the monthly load duration curves in Exhibit (DMN-3), peak demand in the FRCC/Florida market occurs in the summer, just as it does throughout most of the

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However, unlike the rest of the 1 southern United States. southeastern United States, particularly SERC/Southern, the 2 demand in Peninsular Florida during the winter months is more 3 volatile. Interestingly, the observed winter peak is almost 4 as high as the observed summer peak; however, the load 5 variability during the winter is higher than the variability 6 during the summer. The SERC/Southern region has been served 7 by large gas pipelines over the years (e.g., Sonat, 8 Transcontinental), and gas has penetrated the winter heating 9 market there. A larger proportion of Florida customers rely 10 on resistance heat during cold winter days, owing in part to 11 the historical paucity of natural gas in Florida, rendering 12 winter electricity demand volatility higher in Florida. The 13 higher winter price volatility in Florida has consequences 14 for the price differentials between the SERC/Southern region 15 and Peninsular Florida during the winter and for the 16 propensity to move power from Southern to Peninsular Florida 17 during the winter. 18

As seen in the monthly load duration curves in Exhibit 19 (DMN-3), Florida is a dual peaking market. The peak-to-20 calculated to be summer is during the ratio base 21 approximately 2.5:1, larger than the corresponding ratio in 22 SERC/Southern and elsewhere in SERC. Obviously, Florida 23 experiences strong peaks in the summer. However, the winter 24 peak-to-base ratio in Peninsular Florida is nearly 3:1, 25 presaging higher volatility of demand in the winter than in 26

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1 the summer. A plant such as the New Smyrna Beach Power 2 Project built in Florida can take advantage of two peaks, but 3 a plant built in SERC/Southern or other southern United 4 States locations often can take advantage of only one.

The ability of Florida generators to capture two peak 5 6 markets presents an interesting advantage for building new 7 capacity in Florida as Duke New Smyrna and the UCNSB are 8 proposing. It also raises the possibility, however, that 9 during the winter, inbound transmission from SERC/Southern 10 (which might be somewhat slack during the winter) will make 11 up the Florida winter peak deficit. The Altos Model tells 12 which is the better winter alternative -- new generation from the New Smyrna Beach Power Project versus more inbound 13 14 transmission from Southern. (The Altos Model shows that 15 indigenous combined cycle generation in Florida such as the 16 New Smyrna Beach Power Project is better.) Referring back to 17 Exhibit (DMN-3), it is unlikely that there will be 18 summer energy or capacity available to be imported into Peninsular Florida from points north. During the summer, the 19 20 New Smyrna Beach Power Project will pay substantial benefits 21 to Florida ratepayers by simply directly producing into the Florida market. The exhibit further suggests that prices 22 23 will be firm for a substantial portion of the summer and winter, but not necessarily during spring and fall, months. 24 25 The Altos Model will verify that fact as well, but the spring 26 and fall prices will not fall low enough to knock the Project

out of the mix very frequently. The model confirms that the
 Project will evolve rather quickly to become a baseload
 plant.

It is also important to consider and understand the role 4 of the SERC/Southern region in these analyses of the Project. 5 (DMN-4) illustrates the comparable load Exhibit 6 information for SERC/Southern as was presented for Peninsular 7 Florida in Exhibit (DMN-3). The magnitude of the winter 8 peak in the SERC/Southern region is smaller, in relative 9 terms, than the winter peak in Florida. This means that 10 there will be excess energy exportability from Southern to 11 Florida at all times except the summer peak. Furthermore, it 12 is possible that the value of surplus exportability from 13 Southern to Florida during the winter will be attractive in 14 Florida (which should have substantially higher prices than 15 Southern in the winter.) This is not a trivial insight, and 16 it is explicitly accounted for in the Altos Model. The Model 17 calculate the fair market value of energy in Southern during 18 every month of the year and consider its prospective 19 competitiveness against energy from other sources in Florida 20 during every month of the year. This is critical to proper 21 valuation of the New Smyrna Beach Power Project. 22

I should point out that I have subdivided each of the 12 monthly load duration curves in Exhibits \_\_\_\_ (DMN-3) and (DMN-4) into five discrete blocks for every region in the Altos Electric Model. The five blocks, which range

successively from base load to peak, are designated as follows.

Baseload (P1) - 40 percent of the hours in the month,
i.e., those 40 percent of the hours with the lowest average
load. This category represents the 0<sup>th</sup> to the 40<sup>th</sup> percentile
of load.

7 2. High Load Factor Intermediate (P2) - those 25 percent of
8 the hours in the month with the next higher average load.
9 This category represents the 40<sup>th</sup> percentile to the 65<sup>th</sup>
10 percentile of load.

11 3. Low Load Factor Intermediate (P3) - those 15 percent of
12 the hours in the month with the next higher average load.
13 This category represents the 65<sup>th</sup> percentile to the 80<sup>th</sup>
14 percentile of load.

4. High Load Factor Peak (P4) - those 15 percent of the
hours in the month with the next higher average load. This
category represents the 80<sup>th</sup> percentile to the 95<sup>th</sup> percentile
of load.

19 5. Low Load Factor Peak or Superpeak (P5) - those 5 percent
20 of the hours in the month with the highest average load.
21 This category represents the 95<sup>th</sup> percentile to the 100<sup>th</sup>
22 percentile of the load.

The Altos North American Regional Electricity Model will calculate market clearing prices for each of these categories of load for each month of the year, thereby dividing annual load into 60 time increments.

Q: What is the installed capacity in Peninsular Florida and
 Southern as compared with the foregoing daily, monthly, and
 annual load information?

4 A: The capacity situation in the Florida market according to NERC is summarized in Exhibit \_\_\_\_ (DMN-5), and the capacity 5 6 situation in the Southern market according to NERC is 7 summarized in Exhibit (DMN-6). If we compare installed capacity in Peninsular Florida against the load duration 8 curves in Exhibit (DMN-3) that describe the present 9 situation, Florida is short of baseload capacity, having a 10 total of only 13,000 MW of existing base load capacity (coal, 11 12 nuclear, and hydro). It is apparent from the curves in Exhibit (DMN-3) that Florida is short of on-peak 13 14 capacity as well. In fact, there is not enough installed 15 indigenous base load capacity (13,000 MW) to meet hourly 16 demand during most of the hours of the year. The "bottoms" of the monthly load duration curves in Exhibit (DMN-3) 17 are chronically above the 13,000 MW level, meaning that 18 Peninsular Florida is and will remain for the foreseeable 19 20 future chronically underserved in baseload energy. New power 21 plants such as the New Smyrna Beach Power Project are critical if Florida is to relieve itself from the shortage of 22 23 baseload capacity that presently faces the state. The model results will show that the New Smyrna Beach Power Project 24 will initially run as an intermediate load plant but after a 25 26 very few years will operate in baseload and will make up part

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of the difference between presently installed capacity and the bottoms of the monthly load duration curve. In short, Peninsular Florida is in a base load deficit condition, one that has traditionally been supplemented by baseload transmission imports from Southern.

Note further in Exhibit \_\_\_\_ (DMN-5) that Peninsular 6 anticipating adding combined cycle units 7 Florida is (approximately 3,000 MW by 2006) and buying more power from 8 out-of-state providers. It is instructive to note in the 9 Southern projection in Exhibit \_\_\_\_ (DMN-6), which is the 10 Southern analog of Exhibit (DMN-5), that those very out-11 of-state buyers are not planning to add capacity to sell it 12 In fact, they are projecting reduced, not Florida. 13 increased, electric sales to Florida. There is an intrinsic 14 mismatch here. The Project will fill part of this mismatch 15 and shelter Florida electric customers from higher prices. 16 The Altos Electric Model tells us how this mismatch will be 17 resolved both in terms of price and energy flows. 18

Returning to Exhibit (DMN-5), almost all the 19 indicated 23,000 MW of existing Florida oil-and-gas-fired 20 steam-turbines, combustion-turbines and combined-cycle units 21 have heat rates in excess of that of the proposed New Smyrna 22 Beach Power Project (projected at 6,832 Btu/KWh). This means 23 that the Project will be inframarginal relative to virtually 24 all of the existing oil and gas power plants in Florida and 25 will operate in preference to them. The majority of existing 26

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Florida units are old and are not state-of-the-art. 1 The 2 presently existing Florida peaking units will continue to be run when inbound transmission is constrained or when 3 Southern's coal facilities are fully dispatched and diverted 4 elsewhere (to an increasing degree staying right at home in 5 Southern to meet their growing indigenous peak demand). 6 Introducing inframarginal sources of the type Duke New Smyrna 7 UCNSB are proposing will pay immediate and and the 8 substantial benefits not only to the owners of the new 9 inframarginal Florida plants but also to the market as a 10 whole through price softening, particularly during time of 11 12 peak.

13

14

#### COST-EFFECTIVENESS OF THE NEW SMYRNA BEACH POWER PROJECT

15 Q: Is the proposed power plant the most cost-effective 16 alternative available to provide additional power supply 17 resources in Peninsular Florida?

The Altos Electric Model confirms that gas-fired 18 A: Yes. combined cycle technology, like that of the proposed Project, 19 is the most cost-effective generation technology to add in 20 The fact that the Project is the most Peninsular Florida. 21 cost-effective alternative is underscored by the fact that 22 gas CC technology is currently the technology of choice for 23 Florida utilities and for many utilities throughout the 24 United States. (The Altos Electric Model indicates that new 25 entry of gas CC capacity will be one of the most important 26

contributors to future energy flows as well as a key driver of future energy prices.) For example, the proposed Cane Island 3 plant of the Florida Municipal Power Agency and the Kissimmee Utilities Authority, FPL's proposed repowering projects, Lakeland's planned "phased" combined cycle unit, and the City of Tallahassee's approved Purdom 8 unit, are all projected to use this same gas CC technology.

8

9 Q: Is the proposed power plant the most cost-effective 10 alternative available for Duke New Smyrna in order to meet 11 its obligations to the UCNSB and as a merchant power provider 12 in Peninsular Florida?

The proposed Project is not only the most cost-13 A: Yes. effective alternative for the FRCC/Peninsular Florida market, 14 it is also the most cost-effective alternative for Duke New 15 Smyrna to meet its obligations to the UCNSB and as a merchant 16 power provider in the Peninsular Florida market. This result 17 follows directly from the above observations: if the best 18 technology for the overall market is gas-fired CC capacity, 19 then the best technology for an individual supplier, such as 20 Duke New Smyrna, is that same technology. Again, this result 21 is also confirmed by the observed fact that gas-fired CC 22 capacity is the technology of choice for new capacity in 23 Florida and across the U.S. 24

Q: What alternative generation technologies does the Altos North
 American Regional Electric Model consider in evaluating
 whether a proposed power plant is the most cost-effective
 alternative for a given situation?

5 A: The Altos Model considers gas-fired and oil-fired combustion 6 turbines, gas-fired and oil-fired combined cycle units, gas-7 fueled steam generation units, oil-fueled steam generation 8 units, pulverized coal units, integrated coal gasification 9 combined cycle ("IGCC") units, nuclear units, and waste-to-10 energy technologies.

11

12 ECONOMIC VIABILITY OF THE NEW SMYRNA BEACH POWER PROJECT

13 Q: Please comment on the economic viability of the New Smyrna
14 Beach Power Project.

15 A: In a competitive environment, a cost-effective facility is by definition economically viable. Indeed, merchantization and 16 17 commoditization of a market favor the low cost provider. I 18 have discussed and demonstrated that the gas CC technology is 19 inframarginal in Florida, meaning that new plants such as the 20 Project are economically viable and profitable The New 21 Smyrna Beach Power Project is clearly economically and 22 competitively viable.

23

24 Q: Are there any key market uncertainties that could depress
25 Peninsular Florida/FRCC prices and spark spreads and hurt the
26 Project's viability?

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Not to my knowledge. The foregoing results certainly suggest 1 A: 2 that increasing transmission capability into Peninsular 3 Florida from Southern and points north could put strong 4 downward competitive pressure on Florida prices. I have run 5 a case in which the inbound transmission capability from 6 Southern is nearly doubled from its first contingency 7 capability today of 3,600 MW up to 7,000 MW. This case depresses Florida prices and spark spreads a bit, but not 8 9 enough to eliminate gas CC entry from Florida. The reason is 10 that the coal units will be just as constrained in SERC and 11 FRCC with or without new transmission capability into 12 Florida. By opening up the market, new gas CC capacity moves 13 more quickly and more completely to the margin in the whole region. New gas CC in Southern is actually less attractive 14 to Florida than new gas CC in Florida. 15 Almost doubling inbound transmission capability into Florida does not kill or 16 17 daunt the need for new gas CC entry into Florida.

18 I have also run a completely unlimited and unconstrained 19 inbound transmission case from every region into every other 20 region shown in the model in Exhibit (DMN-1). Our 21 intention was to represent a case in which any incremental 22 transmission project that experienced a high enough price 23 differential across that project would be immediately and 24 completely built. This unlimited transmission case, which incidentally carried a uniform \$3/MWH inter-regional wheeling 25 26 charge from every region to every contiguous region in

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Exhibit \_\_\_\_ (DMN-1), did indeed daunt gas CC entry into 1 In this case of unlimited low cost transmission, 2 Florida. the gas CC business shifted en masse to Entergy (Louisiana) 3 in order to be close to the cheapest natural gas on the 4 continent. Because electric transmission is so cheap and so 5 6 ubiquitous by assumption in this case, the cycling and peaking generation industry in the eastern and southern 7 United States shifts quite quickly and dramatically into 8 Texas, and a huge outbound electric 9 Louisiana and transmission business is built to serve them. While this 10 case might not represent the future configuration of the 11 it clearly implies that the more electric system, 12 transmission that becomes available into Florida, the more 13 the gas CC industry shifts upstream to the lower gas price 14 regions and away from the higher gas price regions. This 15 makes good intuitive sense. 16

Over a broad range of alternative scenarios constructed 17 in the past with the Altos Model, we have seen the Florida 18 spark spreads remain quite robust, and we have seen the 19 propensity for a substantial amount of gas CC entry into 20 Florida. No reasonable sensitivity case changes the fact 21 that Florida is short of capacity, baseload as well as 22 peaking capacity. No reasonable sensitivity case changes the 23 fact that Florida must either install needed capacity or 24 purchase it over transmission lines from afar. 25

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PROJECTED OPERATIONS OF THE NEW SMYRNA BEACH POWER PROJECT 1 Please summarize the projected operations of the Project. 2 Q: Exhibit (DMN-7) summarizes the projected operations of 3 A: the New Smyrna Beach Power Project for the period 2002 4 through 2012. This table shows that the Project is expected 5 to operate at Capacity Factors ranging from approximately 83 6 percent in 2002, its first full year of operation, when its 7 projected generation is 3,719,550 MWH, to approximately 94 8 percent in 2012, when it is expected to produce more than 9 4,200,000 MWH. 10

11

# 12 Q: Can you discuss the plant operation predictions from the 13 model? More specifically, what plants will dispatch to what 14 degree in what hours in what months?

Let me answer that question by proceeding through the Florida 15 A: market in order: baseload (40% of the time), high load factor 16 intermediate load (25% of the time), low load factor 17 intermediate load (15% of the time), high load factor peak 18 (15% of the time), and low load factor peak (superpeak, 5% of 19 I have assembled the Exhibits (DMN-8) the time). 20 through (DMN-12) from the Altos Electric Model run to 21 depict plant dispatch in Florida for base (P1), high load 22 factor intermediate (P2), low load factor intermediate (P3), 23 high load factor peak (P4), and superpeak (P5). 24

Q: Does the Altos Electric Model indicate whether Duke New
 Smyrna is likely to sell any power outside Peninsular
 Florida?

My analyses indicate that very little, if any, power Yes. 4 A: generated by the New Smyrna Beach Power Project will be sold 5 outside Peninsular Florida, i.e., outside the FRCC region. 6 In fact, my analyses indicate that, for a limited number of 7 hours each year, the Project may actually decrease imports of 8 coal-fired power from the SERC region. The economic success 9 of the project does not depend on the project selling any 10 power outside Peninsular Florida. Indeed, the project does 11 12 not anticipate selling power outside Peninsular Florida.

13

Are you aware of other evidence to support your conclusion 14 Q: that the output of the New Smyrna Beach Power Project will be 15 sold entirely, or almost entirely, within Peninsular Florida? 16 The PowerDAT generation cost data published by Public 17 A: Yes. Utilities Fortnightly shows that the raw generation costs of 18 power generated within the FRCC is significantly, even 19 dramatically, higher than the comparable raw generation cost 20 of electricity produced in the SERC region. For example, 21 Exhibit \_\_\_\_\_ (DMN-13) presents summary data for FRCC and SERC 22 for 1997 and also for January through March 1998. (These are 23 the most current and complete data available.) These data 24 show that for 1997, and for the first quarter of 1998, the 25 average generation cost (fuel plus variable operation and 26

1 maintenance cost) in FRCC was more than 50 percent greater 2 than the comparable average generation cost in the SERC 3 region. For 1996, the difference was even greater. This 4 demonstrates conclusively that the primary wholesale market 5 for the output of the New Smyrna Beach Power Project is 6 within Peninsular Florida.

7

BENEFITS PROVIDED BY THE NEW SMYRNA BEACH POWER PROJECT 8 What benefits, if any, is the New Smyrna Beach Power Project 9 Q: likely to provide to Florida and its electric ratepayers? 10 The Project will increase energy supply, decreasing Florida 11 A: energy prices relative to where they would otherwise be as a 12 It will also limit or dampen market power, while 13 result. imposing zero financial and operating risk on Florida 14 ratepayers. Florida ratepayers will not be obliged to buy 15 energy or capacity from the Project unless it is cheaper than 16 all competing alternatives. It will reduce the quantity of 17 fuel consumed for electricity generation, including both oil 18 and gas that would otherwise be burned in much less efficient 19 power plants, and will also reduce environmental emissions 20 relative to what otherwise would occur because it is based on 21 a low heat rate gas combined cycle configuration. 22

23

Q: Market power and market concentration among resident
 generators might become an issue in Florida. Would the entry
 of the New Smyrna Beach Power Project increase or decrease

### market power and concentration relative to the level that would otherwise exist?

A: The Project's entry and presence would decrease whatever
market power and market concentration would otherwise exist
in Florida. I have not attempted for this analysis to
quantify whether market power exists or is being exerted in
Florida by any of the players individually or collectively.
It is clear, however, that the entry of new facilities that

8 are small in the overall scheme of the market and are owned 9 by independent entities without any prospect of market power 10 reduces whatever market concentration and market power might 11 The entry and now or in the future exist in Florida. 12 presence of the Project is at worst neutral and at best 13 dilutive of market power and market concentration problems 14 that might otherwise exist in Florida. The Commission should 15 keep in mind that Peninsular Florida is dominated by three 16 investor-owned utilities that individually and collectively 17 own a significant proportion of the installed generating 18 capacity in Peninsular Florida. With regard to market 19 concentration, Florida Power & Light Company ("FPL") controls 20 more than 40% of Peninsular Florida's generation capacity. 21 Two-thirds of Peninsular Florida's generation capability 22 resides collectively in the hands of FPL, Florida Power 23 Corporation, and Tampa Electric Company. 24

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Q: What, if any, effect would the presence of merchant capacity
 have on potential price spikes due to short-term capacity
 shortfalls?

During the summer of 1998, we have witnessed the explosion of 4 Α: the wholesale energy market with spot prices reaching as high 5 as \$7,000/MWH. Prospects for spot prices this astronomical 6 during peak lie at the heart of the issue of the market power 7 Can some key Florida player withhold capacity and issue. 8 drive up price during peak and thereby garner monopoly rents? 9 The prospect for the existence and exercise of market power 10 appears to be at least as large in Florida as it could be in 11 To cite a contrasting example, ERCOT other jurisdictions. 12 (which comprises the majority of Texas) has a peak demand of 13 approximately 50,000 MW, and the majority of its indigenous 14 generation is in the control of three investor-owned 15 utilities just like Florida. However, ERCOT also has roughly 16 7,500 MW of generation capacity owned by cogenerators, 17 industrial self-generators, and other entities not affiliated 18 with retail-serving utilities. Of this 7,500 MW, nearly 19 3,000 MW is industrial self generation. Of the remaining 20 4,500 MW capacity, some 3,000 MW have historically been 21 contracted to supply firm capacity and associated energy. 22 The remaining 1,500 MW of capacity sells only as-available 23 This as-available energy represents a price buffer energy. 24 in the ERCOT system, one that restrains whatever market power 25 It is significant to note that the price might exist. 26

explosions seen recently elsewhere in North America have not
 affected ERCOT. There is an argument to be made that the
 existence of a 7,500 MW merchant capacity "buffer" moderates
 within ERCOT the type of price flyup seen elsewhere.

It would seem to me that Florida would be well advised 5 to encourage a "merchant fringe" to limit prospects for 6 market power and price flyup. The New Smyrna Beach Power 7 Project represents an effective start building such a 8 "merchant fringe" for Florida. I emphasize, I am not arguing 9 that there is or is not any effective market power enjoyed or 10 exercised by any individual or collective entity in Florida. 11 I have not done the analysis. Rather, I am simply arguing 12 that the existence of a "merchant fringe" of generation 13 capacity ensures against the existence or exercise of such 14 The existence of a "merchant fringe" is an market power. 15 power and market policy against market 16 insurance concentration. 17

I should point out that a decrease in market power and market concentration normally manifests itself in terms of lower market prices (because of less restrictions in capacity and energy production) to Florida customers. Florida electric customers are the direct beneficiaries of whatever dilution of market power might occur as the result of the entry of the New Smyrna Beach Power Project.

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Q: What, if any, economic benefits is the New Smyrna Beach
 Project likely to provide to the State of Florida and to
 Florida electric customers?

A: The analysis herein of the Florida and contiguous markets
demonstrates that the Project and gas CC projects like it
will provide direct economic benefits in the form of lowercost electricity to Florida utilities than would otherwise
occur and more profits to low cost producers than would
otherwise occur.

Exhibit (DMN-14) indicates how to quantify and 10 think about the economic welfare benefits of the Project. 11 The entry of the New Smyrna Beach Power Project shifts the 12 original supply curve for Florida outward and to the right. 13 In particular, the entry of the Project will move the supply 14 curve from the leftmost supply curve in the figure to the 15 rightmost supply curve in the figure. As this occurs, the 16 market clearing price moves from the higher horizontal price 17 line in the figure to the lower horizontal price line in the 18 figure, and the quantity of electric energy consumed shifts 19 from the leftmost vertical quantity line in the figure to the 20 rightmost vertical quantity line. Price is depressed because 21 of the increased capacity chasing a fixed demand, and 22 quantity is stimulated because lower price attracts new 23 customers and/or new uses. The shift from the upper left 24 market clearing dot to the lower right market clearing dot in 25 the exhibit makes both the price depression and the quantity 26

1 stimulation clear.

2 The figure quantifies the economic benefit that the 3 consumers in Florida get because of the entry of the Project 4 (the sum of areas A + B + C), which represents the price 5 reduction that is enjoyed by existing customers (A + B) plus new customers (C). 6 The figure further quantifies the economic benefit that the producers in Florida get because of 7 8 the entry of the Project (areas E + F - A), which represents 9 the increased profit from serving old customers at the new 10 lower cost (E) plus the increased profit from serving new 11 customers at the new lower cost (F) minus the profits that 12 were formerly realized (before the entry of the Project) by 13 running old plants to serve old customers. It is well known that the total economic benefit is the algebraic sum of the 14 consumers plus producers surplus calculations, which is the 15 16 shaded area in the figure (B + C + E + F).

17 I have not quantified all the individual areas in the 18 exhibit, but it would not be difficult to do so. If electricity demand in Florida were rather inelastic (i.e., 19 20 steep demand curve), the benefits to Florida consumers would be equal to the volume of production from the Project in each 21 22 hour of the year in which it is economic times the price 23 depression the entry of the Project induces in the Florida It is clear from the exhibit that there must and 24 market. 25 will be a reduction in the price in the Florida market 26 because of the entry of any inframarginal capacity such as

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the New Smyrna Beach Power Project. Florida consumers will 1 not go empty handed because of the entry of the Project; some 2 of the benefit of the entry will accrue to them through cost 3 competition and market arbitrage. This is a critically 4 important point. Entry of a new, merchant unit such as the 5 New Smyrna Beach Power Project increases the quantity of 6 capacity chasing the same market that would have been there 7 with or without the new project. More supply chasing the 8 same market necessarily means lower market price for a 9 merchant producer. Merchant producers do not have the luxury 10 of being able to impose their costs on downstream customers, 11 and their entry therefore necessarily depresses market 12 prices. 13

To summarize, as I mentioned previously, the existence 14 of the New Smyrna Beach Power Project has the prospect of 15 providing direct economic benefits in the form of a 16 market power and market competitive check against 17 concentration that a monopolistic or oligopolistic supplier 18 might otherwise extract from its capacity and/or energy. The 19 Project, like other gas CC projects, provides environmental 20 benefits in the form of reduced environmental emissions that 21 would otherwise occur if coal, steam turbines, or other 22 baseload and/or peaking assets would have to be used instead. 23 24

25 Q: Will the Project result in primary fuel savings in Florida?
26 A: Yes. As shown in Exhibit \_\_\_\_ (DMN-7), the Project's

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operation is expected to result in significant savings in the 1 consumption of primary fuel that would otherwise be burned to 2 generate electricity. These savings are projected to be 3 between 13 Trillion Btu and 15.5 Trillion Btu per year over 4 the Project's first ten years of operation. If the Project 5 displaces generation from heavy-oil-fired units, the gross 6 oil savings can be expected to be on the order of 6 million 7 to 7 million barrels of oil per year. Even if it only 8 displaces gas burned in less efficient units, savings will be 9 10 substantial.

11

## 12 Q: Please describe and discuss any other benefits that the 13 Project will provide.

As discussed in the testimony of Mr. Meling, the New Smyrna 14 A: Beach Project will be a state-of-the-art, high-efficiency 15 generating unit with low air emissions. While environmental 16 economists and others may argue about the costs caused by air 17 pollution, it is not seriously argued that pollution is cost-18 Thus, to the extent that the New Smyrna Beach Power 19 free. Project produces power with less pollution than the 20 generation it displaces, the Project reduces the external 21 costs imposed on society in general (everyone who breathes 22 and maintains property) due to electricity generation. The 23 fact that it may be difficult to quantify such external costs 24 in dollar terms does not diminish their real effects. 25

26

1

### CONCLUSION

### 2 Q: Please summarize the key conclusions of your testimony.

3 A: 1. There is an immediate and growing need for much more
4 than the 500 MW of electric generation capacity proposed by
5 Duke New Smyrna and the UCNSB and for the electric energy it
6 will produce over its life.

7 2. The gas CC configuration proposed by Duke New Smyrna and
8 the UCNSB is the most cost-effective option to provide the
9 needed Florida capacity and energy. It is better than gas
10 simple cycle, coal, oil, or other technologies.

11 3. The New Smyrna Beach Power Project is definitely 12 economically viable. Its cost is lower than the marginal 13 unit in Florida in an increasing number of hours, it will 14 generate profits for its owners, it will depress wholesale 15 electricity prices in Florida relative to what they would 16 otherwise be, and it will be very clean and environmentally 17 benign. As a merchant facility, it will impose zero cost risks on Florida ratepayers and electricity customers. 18

4. At most, an inconsequential amount of energy from the
Project would ever be sold out of state. The Project
requires no out of state sales to be profitable and
economically viable.

5. The Project will provide a number of important benefits
to Florida ratepayers. It will increase energy supply,
decreasing Florida energy prices relative to where they would
otherwise be as a result. It imposes zero risk on Florida

ratepayers. Florida ratepayers will not be obliged to buy 1 energy or capacity from the project unless it is cheaper than 2 all competing alternatives (which it is in initially 69 3 percent of the hours of the year rising to 92 percent of the 4 5 hours of the year). It will reduce environmental emissions 6 relative to what otherwise would occur because it is based on 7 a low heat rate gas combined cycle configuration. Finally, it will ameliorate any market power or market concentration 8 9 issues that might be present in Florida, reducing ratepayer 10 prices as it does so.

11

12 Q: Does this conclude your direct testimony?

13 A: Yes. The foregoing testimony, together with the referenced
14 Exhibits, concludes my testimony.

15

1 BY MR. McGLOTHLIN (Continuing):

2 Q Doctor Nesbitt, have you prepared a summary of 3 your testimony?

A Yes.

4

7

13

5 MR. GUYTON: Madam Chairman, may I take the 6 witness on voir dire, please?

CHAIRMAN JOHNSON: Sure.

8 MR. GUYTON: I have concern about an exhibit in 9 this witness's testimony and part of his testimony, and I 10 think we would be well served to get that resolved before 11 he testifies and perhaps relies on it because I intend to 12 move to strike part of it.

CHAIRMAN JOHNSON: Okay.

MR. MOYLE: Madam Chair, I'm sorry to interrupt 14 Mr. Guyton, but just so that my notes are clear. With 15 16 respect to -- it was my suggestion about moving in a Composite Exhibit 16 which constituted all of the exhibits, 17 as I understand it, that were filed along with the petition 18 with the Commission. Mr. Guyton has said he has an 19 objection to doing that. I was wondering whether we could 20 identify what that objection is and then move everything in 21 except the thing he objected to, unless he has a whole 22 series of objections to that. It would help with my record 23 24 keeping.

25

MR. GUYTON: We are about to address the portion

of Exhibit 16 with which we take issue as well as a portion 1 of Mr. -- Doctor Nesbitt's testimony and exhibits through 2 3 the voir dire. CHAIRMAN JOHNSON: Okay. 4 MR. MOYLE: Is that the only thing then as to 5 what you are about to do? In other words, you wouldn't 6 7 have an objection --MR. GUYTON: It's all I've identified right now, 8 9 John. VOIR DIRE EXAMINATION 10 BY MR. GUYTON: 11 12 Q Doctor Nesbitt, would you turn to page 8 of your testimony, please? 13 Page 8? 14 Α 15 Q Yes, sir. Okay, I'm on Page 8. 16 Α And there at Lines 4 through 14, you tell the 17 0 18 Commission about the two models that you use to draw your conclusions in your testimony, don't you? 19 Yes, my testimony describes the North American 20 Α Regional Electric and the North American Regional Gas 21 22 models, yes. Q And then you provide more detailed descriptions 23 of those two models in your DMN-15 and your DMN-16, 24 correct? 25 C & N REPORTERS TALLAHASSEE, FLORIDA (850)697-8314

А Yes, I do. Would you turn to your DMN-7, please? 0 Α I have it. 0 The column on DMN-7 entitled "Capacity Factor" --Α Yes. 0 -- that is not an output from your North American Regional Electricity model, is it, sir? That is derived from outputs from the North Α American Regional Electricity model based on a statistical fitting technique thereafter, so it is an output of that model. 0 Well, sir, let's be clear. Those capacity factors were not calculated in your model run from the North American Regional Electricity model, instead they were calculated from a third model, your operating model, correct? Α They were calculated based on outputs from the North American Regional Electricity model. They were calculated based on outputs from the North American Regional Electric Model. 0 And what model did you use to calculate those capacity factors? Α The model that was used was the operating model in the statistical fitting portion that I just alluded to thereof.

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Q Now in your prefiled testimony, you've not described the operating model, have you?

3 A I don't believe the operating model was described4 in the prefiled testimony, no.

5 MR. McGLOTHLIN: Commissioners, I'm going to object to a continuation of this line of questioning. 6 When 7 Mr. Guyton said he wanted to voir dire the witness, I 8 thought he had some questions about the witness's 9 qualifications, but instead, it seems to be premature cross examination. The witness has not sponsored his direct 10 11 testimony. Mr. Guyton will have an opportunity at that time to cross examine on the witness's exhibits. 12

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CHAIRMAN JOHNSON: Mr. Guyton.

MR. GUYTON: Commissioner, I ask for a little 14 I think it will become clear in a matter of leeway. 15 minutes that we are going to see whether or not this 16 witness has disclosed information which he should have 17 disclosed. If we allow him to proceed with his summary and 18 we wait until cross examination, this witness is going to 19 make additional comments based upon evidence that we think 20 21 is inappropriate. The only way to address that is through voir dire. The purpose of the voir dire is simply to show 22 that it's inappropriate for him to be able to rely on some 23 of these exhibits. 24

25

CHAIRMAN JOHNSON: Go ahead.

1 BY MR. GUYTON (Continuing):

2 Q Now in your operating model, you estimate the 3 profitability and performance of an individual unit, create 4 projections of operating hours, create price duration 5 curves and profitability, correct?

A We have the capability to do that in the7 operating model, yes.

Q And one of the purposes of your DMN-7 is to
9 quantify projected fuel displacement benefits of the Duke
10 New Smyrna unit, isn't it?

11 A One of the purposes, indeed, is to calculate the 12 degree of fuel displacement that occurs because of the Duke 13 New Smyrna unit, yes.

Q Are your Exhibit DMN-7 and the operating model run from which the capacity factors on DMN-7 were developed, are they documents or analyses in which it is assumed that the project will displace oil fired generation?

19ACould I get you to read the question back,20please?

Q Yes, sir. Are DMN-7 and the operating model run from which the capacity factors on DMN-7 were developed, are those documents or analyses in which it is assumed that the project will displace oil fired generation? A No. Q Are DMN-7 and the operating model run from which the capacity factors on DMN-7 were developed, documents and analyses in which it is assumed that the project with its high heat rate of 6832 BTU per kilowatt hour will displace generation from less efficient gas fired steam boiler units or even from less efficient CTGs.

7 MR. McGLOTHLIN: Excuse me Mr. Guyton, did you8 say high heat rate?

MR. GUYTON: Yes.

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MR. McGLOTHLIN: Object to the characterization. MR. MOYLE: Madam Chairman, this sounds an awful lot like cross examination, Number 1. Number 2, if there is an error with respect to the exhibit and he's relying on it, I think the appropriate time to do that is during cross when you can attack his credibility. You know, it seems you've given him some additional leeway in time, and --

MR. McGLOTHLIN: I would second that, Madam 17 Chairman. The witness is here ready to defend his exhibits 18 and is ready to sponsor his testimony and defend cross 19 20 examination, and Mr. Guyton has the cart way before the horse. 21 MR. GUYTON: Commissioner, I only have about 22 three more questions. 23

24 MR. McGLOTHLIN: Well, that is three too many. 25 CHAIRMAN JOHNSON: Go ahead.

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1 BY MR. GUYTON (Continuing):

Q Can we get a response to this? Are DMN-7 and the operating model run from which the capacity factors on DMN-7 were developed, are those documents and analyses in which it is assumed that the project with its high heat rate of 6832 BTU per kilowatt hour will displace generation from less efficient gas fired steam boiler units or even from less efficient CTGs?

I'm having some difficulty answering that yes or 9 Α Let me tell you what DMN-7 is, and maybe that will 10 no. In table DM -- excuse me, in Exhibit 11 help you, Mr. Guyton DMN-7, if you refer to the third column, the capacity 12 factor calculation that's summarized there is based on 13 interplant and interregional competition around the entire 14 United States, including but not limited to Florida and 15 SERC. So Column 3 is not based on any assumption of any 16 individual plant entering anywhere at any time. It's a 17 full continental market equilibrium that gives us those 18 numbers. 19

Armed with those numbers in Column 3, we've simply made a very simple calculation that is very apparent on this table. We have said how much primary energy savings would that imply of whatever type assuming the heat rates, i.e., the thermal efficiencies that are clearly articulated on the page. What if that were all oil and

1 what if that were all gas?

_	
2	Q That assumes the heat rate for the Duke New
3	Smyrna unit of 6832 BTU per kilowatt hour?
4	A That assumes a heat rate of the Duke New Smyrna
5	under of 6832 BTUs per kilowatt hour, yes.
6	Q And this analysis shows displacement of
7	generation from less efficient gas fired steam boiler units
8	or even from less efficient CTGs, does it not?
9	A I'm sorry, I missed the question.
10	Q This exhibit shows displacement of generation by
11	the Duke New Smyrna unit from less efficient gas fired
12	steam boiler units or even from less efficient CTGs, does
13	it not?
14	A Yes, it does.
15	Q Now are DMN-7 and the operating model run from
16	which the capacity factors on DMN-7 were developed
17	documents and analyses supporting the project's capacity
18	factor ranging from 83% in 2002 to 94% or more in 2012?
19	A I'm not sure I understand what the question is.
20	Q All right. Is your DMN-7 and the underlying
21	model run a document and an underlying analysis that
22	supports the project's capacity factor running from
23	approximately 83% in 2002 to 94% or more in 2012?
24	A Mr. Guyton, the analysis that supports the
25	capacity factor is not exhibits DMN-7. It's the North

American Regional Electricity model and the subsequent operation of the operating model on the results thereof. DMN-7 is an illustration of what the answers from that model tell us about substitution of high heat rate inefficient capacity caused by the entry of low -- a heat rate highly efficient, Duke New Smyrna Beach like capacity.

8 Q Doctor Nesbitt, you or some of your associates at 9 Altos assisted Duke New Smyrna in their response to Florida 10 Power & Light Company's first request for production to 11 Duke New Smyrna, did you not?

12 A I don't remember what the first request was right13 offhand.

14 Q You do recall providing some assistance to Duke 15 New Smyrna in providing a response to a document 16 production, don't you?

A I remember providing assistance to my attorneys.
 Q All right, sir. I'm going to ask you to take a
 look, if you would --

CHAIRMAN JOHNSON: Mr. Guyton, how much more do you have because you are -- you are going into cross, and it may be more appropriate for you to handle this on a case by case basis as -- after he testifies because I don't see where you are getting anywhere either.

MR. McGLOTHLIN: I renew my objection.

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CHAIRMAN JOHNSON: He is answering the questions
 accurately.

MR. McGLOTHLIN: I renew my objection and point out that you've given Mr. Guyton quite more latitude than he said he needed and we're not home yet, and this is simply inappropriate and prejudicial to the witness's opportunity to present his testimony.

8 MR. GUYTON: Madam Chairman, may I ask him simply 9 to take a look at the first three requests and ask him if, 10 indeed, the operating model run is not --

MR. McGLOTHLIN: Madam chairman, I object. You've given Mr. Guyton that opportunity before, and we are still working on it. I would like for a ruling on my objection.

CHAIRMAN JOHNSON: Mr. Guyton, I'm going to stop 15 the line of questioning because I think we are going far 16 beyond what voir dire is generally designed to accomplish. 17 I was trying to, when you first stated what you were trying 18 to achieve, I thought perhaps if you could achieve it 19 expeditiously. Additionally, I believe his answers, even 20 if you went through all of this -- well, I'm not going to 21 tell you how I'm going to rule because it hasn't been moved 22 yet, but I want to end the line of questioning. If you 23 24 want to offer something at this point, go ahead and make 25 the point, but I'm not going to allow us to spend any more

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1 time through this process cross examining this witness.

2 MR. GUYTON: All right. I will go ahead and move 3 it. Doctor Nesbitt's testimony is largely a blackbox, 4 Commissioners. He tells -- he starts off by telling you 5 that he has two models, and he gives you some detailed expression of what those models are. What he doesn't tell 6 7 you is that he uses a third model, the operating model, and it's the only model in which he used to develop DMN-7, 8 the run from it was. He used output from his North 9 10 American Regional model as input to his operating model run; but the only model he used for this particular one was 11 12 his operations model. We --

13 MR. McGLOTHLIN: Excuse me, I'm going to object, Mr. Guyton. Not only are we into cross examination, now we 14 are making a motion and making oral argument before we have 15 a chance to redirect. Not only has he not presented his 16 direct testimony, we haven't had a chance to elicit 17 responses to -- based on Mr. Guyton's question. We've got 18 19 the cart before the horse again. I suggest the appropriate time to do this is at the conclusion of the testimony, 20 after redirect and when I move the evidence. 21

22 MR. GUYTON: Commissioner, if we wait that long, 23 the horse literally will be out of the barn. This witness 24 will have testified relying on this, and I will have no 25 hope of going back and identifying specific passages in his testimony that are inappropriate and should be stricken.
 That's the reason that I asked to do this up front.

3 MR. McGLOTHLIN: I object to that argument 4 occurring before I have a full opportunity for redirect on 5 what has amounted to significant cross examination.

6 CHAIRMAN JOHNSON: And I understand the dilemma 7 that you are in, but I don't think we are going to be able 8 to cure that; and to the extent that there are objections 9 made, if we need to strike, if we need to give you the 10 opportunity to go back through and determine what needs to 11 be stricken, we'll have to handle it in that manner.

MR. GUYTON: So I won't be allowed to proceed even to say what I have an objection to here?

14 CHAIRMAN JOHNSON: I think you did. Well, you 15 need say what you have an objection to and not go through 16 the testimony and the background information.

MR. GUYTON: We object to the admission of DMN-7 MR. GUYTON: We object to the admission of DMN-7 or any discussion of it, table 10 of the Joint Petition, the first full paragraph on Page 56 of the Joint Petition exhibit -- I'm sorry, I said Table 10 of the Joint Petition. I meant Table 10 of Exhibit 16, the Joint Petition exhibit. The paragraph at the bottom of Page 73 of the Joint Petition --

CHAIRMAN JOHNSON: I'm going to write down the things that you said. You said Table 10?

MR. GUYTON: Of the Joint Petition exhibit. The 1 2 first full paragraph on Page 56 of the Joint Petition 3 exhibit, the paragraph at the bottom of Page 73 of the 4 Joint Petition exhibit and continuing on to the top of Page 5 74. We object to the insertion into the record of Page 28, Lines 2 through 10 of Doctor Nesbitt's prefiled direct 6 7 testimony. And if you'll bear with me, I have one other 8 passage I'm looking for where he relied on DMN-7. And the 9 passage that begins at the bottom of Page 36, Line 25 through Page 37, Line 10. 10 CHAIRMAN JOHNSON: And you said 73, the last 11 paragraph, 74 --Was there --12 MR. GUYTON: The paragraph continues between 73 13 and 74. 14 CHAIRMAN JOHNSON: 15 Okay. MR. GUYTON: Commissioners, I appreciate your 16 17 indulgence. I thank you for the opportunity. We'll take the matter up further in cross, but that's the motion. 18 MR. McGLOTHLIN: Of course, Chairman Johnson --19 CHAIRMAN JOHNSON: Let me be clear. I understand 20 what you're objecting to at this point. I'm going to 21 22 overrule that, but at the appropriate time, if you want to renew your objections as the issues are raised, I will 23 entertain those arguments. 24 MR. GUYTON: Thank you. 25

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1 MR. McGLOTHLIN: Of course, we had no prior 2 notice of the objection and motion, Chairman Johnson, so 3 we'll have to use a break to see exactly what the scope of 4 it is and we'll respond at the appropriate time.

5 I do have one more house cleaning matter, if 6 you'll allow me.

7 BY MR. McGLOTHLIN (Continuing):

8 Q Doctor Nesbitt, I think you indicated that you 9 had a correction on some exhibits as well. Would you 10 identify those at this time?

11 A Yes, I'd like to. Thank you very much. DMN-5 12 and 6 were corrected and resubmitted late following my 13 deposition. I believe, Mr. McGlothlin, you have corrected 14 and distribute copies of those. I would like to substitute 15 those for what was in the original direct testimony.

And then in DMN Number 15, there are a number of references to 30 regions in the Altos North American Regional model. There are actually 32. Please make note of that and substitute that every time that's in there, and that concludes it.

21 MR. McGLOTHLIN: Commissioners, I've distributed 22 the revised DMN-5 and 6 to the parties, and I have copies 23 for you at this time. We also distributed a handout of 24 some bullet points and some visuals taken from -- distilled 25 from and taken from the prefiled direct as an outline and visual aid for the summary. The parties have also received
 this earlier today.

3 BY MR. McGLOTHLIN (Continuing):

4 Q Doctor Nesbitt, would you proceed to provide your 5 summary, please?

Α Yes. Beginning on Page 1 we can see that the 6 title here is the need for and the viability of the Duke 7 New Smyrna Beach project. Flipping over to Page 2, I'd 8 like to start out with the key conclusion, really the key 9 reality; and that is, that the Duke New Smyrna Beach -- and 10 I'm going to abbreviate that throughout the remainder of 11 this package, DNSB; and if I mispronounce it, it's because 12 I don't read acronyms all that well -- project is needed 13 now. Now. And it's economically viable now. 14

And what I want to talk about a little bit is the methodology that my colleagues and I at Altos have used to demonstrate that, and that's the model or models, the data that supports those models and the analysis that follows from those models, and I think paints a clear picture of the economic viability of this project.

If we flip to Page Number 3, this is a picture from my prefiled testimony of the model, and it indicates that the philosophy that we've used here embodies an approach that we want to -- we want to consider Florida not as an island in and of itself but is independently

1 interconnected prospectively to the rest of North America.

2 Okay, what we want to do is look at supply, 3 demand, transportation, entry, operation, and exit in each of those 32 regions that's articulated there. 4 We want to 5 lay out prospective and existing transmission between and among every contiguous pair of regions. We want to look at 6 generation and consumption and in-bound transmission and 7 8 out-bound transmission within every region; and that's, indeed, what we have done. 9

If we flip over to Page Number 4, I think it's important to point out in a little bit of detail how that's been done here. Let me point you to the circle in the middle that's called "indigenous generation." What "indigenous generation" simply means is generation in any of the given regions in the model on the previous page. In this case, let's say Florida.

Now the model, as it's laid out here, does the 17 kind of simulations that I believe Commissioner Jacobs 18 talked about yesterday, ascending cost dispatch. You lay 19 the plants out in ascending order of cost, so have an 20 existing mix of capacity that will, indeed, run right on up 21 the capacity -- or the energy supply curve until you get to 22 demand, and then it will stop running up. So in many 23 regards, for existing capacity it's no different from the 24 25 utility planning methods that I've seen over the last two

decades, the Pro Mods, the Henwoods (phonetics), the rather standard planning techniques. I don't want you to be confused and say, oh, this is just a free market merchant model because it's not. It simulates the world you have here. It also simulates, in an important sense, the FERC 888 world as well.

In indigenous generation we've gone through a lot 7 of pain and I think got a lot of success at putting in 8 investment. How many new plants will the market bring in? 9 10 And it will bring them in until they are no longer profitable to bring them in, and then it will stop; that's 11 what the model does. And I think in an important sense 12 that responds to a number of questions that were raised 13 yesterday from the various commissioners. It also retires 14 or stops running plants. It idles plants that are not 15 economic and not competitive. 16

Okay, important, indigenous consumption is 17 represented in each region at the other left. Fuel 18 substitution is represented at the bottom, and it's 19 represented in the most aggressive possible way so that we 20 can have the most conservative estimate -- credible 21 estimate that we can think of for fuel price relative to 22 23 power price in each of the regions. We don't want to inadvertently have too optimistic or too wide a spread 24 between those prices. 25

And then finally, importantly, we represent intercourse between the various regions, and this is articulated in great detail in DMN-15.

Moving on quickly to Page Number 35, we've worked 4 5 equally assiduously to represent natural gas price by 6 supply basin, by existing and prospective transmission 7 link, and by demand region throughout North America. Why have we done this? We want to have a consistent and proper 8 9 and correct representation of gas price and basis differential so that we don't overstate or understate 10 things inadvertently. 11

12 Moving to Page Number 6, when you boil it down, there is a picture of the methodology. Supply demand 13 balancing, market clearing, fair market value of every 14 commodity at every point in North America; that's the basic 15 16 assumption. Note in this simple diagram there is a price there. Every plant is a little tiny piece of that supply 17 Every plant sees and gets the same price. function. The 18 19 plant runs when its production cost is lower than the price. The plant doesn't run when its production cost is 20 above the price; it's idle. 21

Moving to Number 7, and I'm talking about the key results. It's very important, number 1, the Duke New Smyrna Beach project because there's -- or excuse me, there is a direct and an immediate economic need. The project displaces generation from high cost plants that would otherwise have to be maintained -- if you want to run them, you have to maintain them -- and run; and it displaces them with a newer, lower cost, cleaner plant. Duke New Smyrna Beach project is a high efficiency lower cost plant than what it displaces, very important.

7 Corollary to that, Florida ratepayers' need, the 8 lower prices that are going to result from the entry of 9 that plant; and lower prices will result from the entry of 10 that plant. We will see why in a minute.

Now displacement of high cost plants by low cost plants, so what? Well, it's not so what. As indicated in my testimony on Page 35, Line 14, it creates what economists call producers plus consumer surplus. Okay, in the lexicon we heard yesterday, this is economic wealth. This is GDP for the State of Florida. This is investment. This is jobs. This is manna from heaven.

18 COMMISSIONER GARCIA: What about the stranded 19 investment.

20 DOCTOR NESBITT: Can I defer that for a minute? 21 I have plenty to say about that.

22 COMMISSIONER GARCIA: Sure.

DOCTOR NESBITT: Page Number 8 -- Actually let me not defer that, Commissioner Garcia, I would like to address that; and that was why I emphasized the word

1 "maintained," if we go back to the first item.

2 There is a lot of -- a lot of fixed O&M costs that you have to plow into a plant to keep it alive, okay? 3 So if we look at one of these high cost units, I pointed 4 5 out in any testimony, a 1972 Chevrolet Vega. Anybody still drive one of those? Do you drive one of those? 6 I don't drive one of those. But they do have a high O&M cost. 7 8 Okay, it would cost you a lot of money to maintain it, just 9 to keep it in your garage if you didn't drive it. That 10 cost is totally avoidable if you don't run the plant. That is not a stranded cost. 11

12 Ongoing maintenance cost to keep a plant alive is not rate-based cost. There is no entitlement to run it. 13 That's cost that's strictly avoidable by introducing 14 efficient, new high heat rate, low cost plants. How much 15 is left on the books? How much is truly sunk, truly 16 embedded, return of and return on rate base in these old 17 plants? I don't know the answer to that. My conjecture is 18 My conjecture is that the plants you are going not much. 19 20 to see displaced out Florida plants you want to see displaced. The embedded costs are very low, and the 21 qo-forward maintenance costs of those 1972 Chevy Vegas is 22 23 very high; you want them out. And as you take them out, you create wealth for the citizens of Florida; and you 24 create low prices unilaterally for the citizens of 25

1 Florida.

2	Sir, does that answer the question?
3	COMMISSIONER GARCIA: Pretty much.
4	A Okay, moving over to page number 8, one of the
5	points that's very important to make here is that the Duke
6	New Smyrna Beach project doesn't have to beat the next
7	competitive entrant; it has to beat the last dog in the
8	stack. It's not a race against prospective new entrants
9	that matters. It's a race between the brand new plant, the
10	Duke New Smyrna Beach plant and the last plant out on the
11	stack, the highest cost plant out there. And it's the cost
12	differential between the first plant in, the Duke New
13	Smyrna Beach plant, the one with the low heat rate and the
14	low O&M cost, and the first plant out, which is the one
15	with the high O&M cost and typically the lousy heat rate
16	that sets the benefits. Benefits are high. They are
17	irrefutable. The last cost the last plant in the
18	Florida stack is a very expensive plant, and I would agree
19	with Mr. Green that the first plant into the stack is a
20	very low cost plant, that's the Duke New Smyrna Beach
21	plant. So it's very important that you understand, very
22	important. The benefits are set by the difference between
23	DNSB and the marginal unit that is displaced. And
24	displaced doesn't mean shut down; it means you don't have
25	to run it as much or it's shut down.

Okay, the other thing, and we are going to show 1 this on a diagram in a minute, is Point Number 3. 2 When Duke New Smyrna Beach enters, wholesale energy prices in 3 4 Florida are directly reduced as the set of such entry, directly reduced as a causal relationship. How do you know 5 this? I grew up in Nevada. We are pretty dumb out in 6 7 Nevada. We know when there are more cows put in the stock 8 yard, the price of beef goes down. When there's more 9 plants put into the supply stack, the price of power has to 10 qo down. You've got more supply chasing a fixed demand. Okay. So if you put 500 megawatts, admittedly 11 12 not a lot of incremental supply into the Florida market, the price of power in Florida has to go down. 13 What does that mean? That means by allowing Duke New Smyrna Beach to 14 go forward you've reduced the price to every consumer in 15 16 Florida; price signals proliferate throughout Florida. Let's look at Page Number 9. 17 18 COMMISSIONER DEASON: Let me ask a question on your beef analogy there. 19 DOCTOR NESBITT: 20 Certainly. COMMISSIONER DEASON: It may very well happen in 21 22 Nevada, I certainly don't know, but is there a commission 23 in Nevada that determines the number of cows needed in Nevada and then says who can grow that number of cows? 24 25 DOCTOR NESBITT: Not that I know of, Commissioner

1 Deason.

2

COMMISSIONER DEASON: Okay.

3 DOCTOR NESBITT: That's not the point though. The point I wanted to make, and it's a good question, is 4 5 when you introduce one more unit of supply into a fixed 6 market, price has to go down, so everybody has to benefit 7 because electricity may move at the speed of light, but 8 price certainly moves at the speed of light in the lexicon. More supply chasing fixed demand means lower price. 9 Ιt means better price, better electric price in the wholesale 10 markets in Florida. 11

12 Let me skip over Page Number 9 and go to -- well,13 let me not skip over Page Number 9.

Page Number 9 which is taken from my direct 14 testimony is a picture of the supply stack in the State of 15 California. A lot of people say, oh, California has a big 16 17 problem. Well, the supply stack in California as you're about to see doesn't look too different from the supply 18 stack in the State of Florida. Why? Well, the supply 19 stack in the State of California has a whole bunch of 20 must-run units, and hydro and NUGs and IPPs that are 21 sitting out to the left, 20 thousand megawatts worth. 22 And you move up to nukes, and then you move up to some coals, a 23 24 tiny bit of gas combined cycle in California, and an extremely wide traunch of relatively high cost capacity: 25

1 Old steam turbines in California that are all gas.

If you flip over to the next page, which is the supply stack for Florida my colleagues and I have put together, a very similar qualitative picture, and we've --

5 COMMISSIONER GARCIA: Explain your California, 6 what you were trying to get at with your California. I 7 didn't -- I wasn't listening, I'm sorry.

8 DOCTOR NESBITT: Okay, what I'm trying to get out 9 of that is simply this notion that you have some fairly low cost capacity, fairly low cost energy at the left and then 10 you get up on a long traunch, 20 gigawatts, 20 thousand 11 megawatts of relatively much more costly steam turbine 12 13 capacity. Demand is almost always out on that flat traunch. Most of the hours of the year demand is over 14 there on that big flat traunch, so you don't see a lot of 15 volatility in price during those hours. So you lull 16 yourself into a set of complacency if you're a Californian, 17 hey, I've got a good deal going here. You don't have a 18 good deal going here in California. Because if you put a 19 20 lot of gas combined cycle units in there and push that whole supply stack out to the right, you've reduced that 21 large traunch and reduced the volatility, or at least left 22 the volatility the same, very similar situation here in 23 Florida as you see by the next picture. 24

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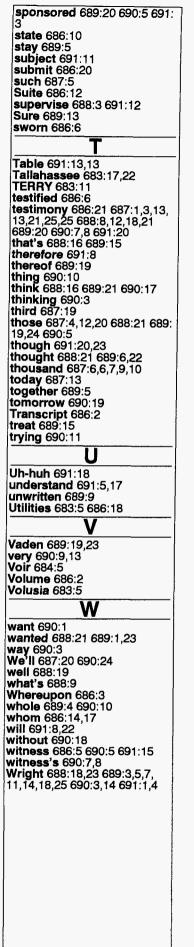
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