STATE OF NEW HAMPSHIRE

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DOCKET NO. DE 10-195

DIRECT TESTIMONY OF GEORGE E. SANSOUCY, P.E.

-	GEORGE E. SANSOUCY, P.E.
2	ON BEHALF OF
3	THE CITY OF BERLIN
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5	Request for Approval of Power Purchase Agreement
5	Between
7	Public Service Company of New Hampshire
3	And
9	Laidlaw Berlin BioPower, LLC
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1	INTRODUCTION AND PURPOSE
2	Q. Please state your name, position and business address.
3	A. My name is George E. Sansoucy. My business address is 32 Nimble Hill Road,
4	Newington, New Hampshire 03801. I am the owner/member of George E. Sansoucy,
5	P.E., LLC.
6	
7	Q. Have you testified before the NH PUC before?
8	A. Yes, on several occasions.
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10	Q. What is the purpose of your testimony in this case?
11	A. My testimony is to support the advocacy of the City of Berlin to urge the PUC to
12	approve the PPA entered into between Public Service of New Hampshire and Laidlaw
13	Berlin BioPower, LLC for the construction and operation of a 65 MW wood fired
14	power plant in the City of Berlin.
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16	Q. Please briefly describe the nature of your testimony.
17	A. The nature of my testimony relates to the economic benefits of this proposal to the
18	City of Berlin and the North Country as well as the State, to support decisions and
19	proposals made by PSNH regarding this contract, and to urge the Commission to
20	view this contract in the long term based on the projected benefits to the City, the
21	North Country, the rate payers, and the State as a whole.
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A. More specific economic benefits that relate to Dr. Shapiro's testimony directly
relates to the composition of local expenses incurred by the power plant after
construction is completed. The total composition of expenses are the following: fuel,
labor for operations and maintenance, taxes, water, sewer, materials, and supplies.
The approximate percentages of annual gross revenue that these costs represent are:

Fuel	\$26,430,000	43%
O&M	\$10,000,000	16%
City Taxes, Sewer and Water	\$3,000,000	5%
Total	\$39,430,000	64%

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The operation of this wood fired power plant through approval of the PPA returns significant economic benefit to the North Country, the community, and the region. A detailed look at each of the primary categories of revenue indicates the following: the cost of wood for fuel provides land owner payments, equipment purchases, equipment maintenance, various road use and local taxes for trucking, diesel fuel sales, and labor, all of which is returned to the regional and local economy, due to the fact that most of the regional loggers purchase their equipment locally.

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18 Operational and maintenance labor is a direct injection into the local and regional 19 economy. The region is an excellent source of high quality skilled labor necessary to

1	run the power plant, being trained in the paper industry, and is available due to the
2	closure of the paper industry. The labor pool is capable of being cross-trained, and
3	committed to living and working in the North Country exhibiting a low transience.
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5	Taxes to the City of Berlin, the school systems, and the County, including the various
6	use, timber, and vehicle registration taxes, directly benefit the City of Berlin and the
7	North Country through Coos County taxes collected.
8	
9	Q. What will be the projected impact in today's dollars of this project for the City's
10	finances?
11	A. The economic revenue from the power plant and economic input to the region is
12	undiluted and directly benefits all parties in the region. It is anticipated that the
13	power plant will reduce the overall tax burden in the City of Berlin from an
14	approximate current tax rate of \$31.70 to an approximate tax rate of \$26.25, or a 17%
15	reduction. This reduction in taxes is substantial and immediately lifts the value of all
16	property in the community. It provides a direct benefit to the residents and property
17	owners of the City of Berlin, and in an indirect and positive way, benefits all of the
18	taxpayers in Coos County through increasing County taxes paid by the City of Berlin.
19	Furthermore, it is expected that the purchase of water and use of the sewer system by
20	the power plant will substantially reduce the water and sewer bills to the balance of
21	residents within the City, here again, a direct economic benefit to the citizens of the
22	City of Berlin and an increase of value for all properties in the communities using
23	sewer and water. The increase in value of property within the community directly

1		benefits the County through additional County taxes apportioned and paid by the City
2		of Berlin as a whole.
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4	Q.	What do you believe will be the impact on and economic benefit of material and
5		supplies purchasing by Laidlaw as a result of this PPA?
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7	A.	Materials and supplies will be purchased from a wide variety of sources, both locally
8		and on a national basis. Due to the regions competitiveness over the years and ability
9		to supply industrial facilities as it has for decades, vendors in the North Country
10		region will be equally as capable of competing for material and supply needs to the
11		power plant as other vendors throughout the United States.
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12 13	Q.	Do you believe there may be additional economic benefit to the region through
	Q.	Do you believe there may be additional economic benefit to the region through expansion of this site in the future?
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13 14		expansion of this site in the future?
13 14 15		expansion of this site in the future? Yes. The PPA is silent on the ability of Laidlaw to expand the facility. The current
13 14 15 16		expansion of this site in the future? Yes. The PPA is silent on the ability of Laidlaw to expand the facility. The current infrastructure, namely the road system, the water and sewer infrastructure, the
13 14 15 16 17		expansion of this site in the future? Yes. The PPA is silent on the ability of Laidlaw to expand the facility. The current infrastructure, namely the road system, the water and sewer infrastructure, the electrical infrastructure, and the staffing and labor capabilities of the North Country
 13 14 15 16 17 18 		expansion of this site in the future? Yes. The PPA is silent on the ability of Laidlaw to expand the facility. The current infrastructure, namely the road system, the water and sewer infrastructure, the electrical infrastructure, and the staffing and labor capabilities of the North Country will enable Laidlaw to expand the facilities or supplement the generation on the site,
 13 14 15 16 17 18 19 		expansion of this site in the future? Yes. The PPA is silent on the ability of Laidlaw to expand the facility. The current infrastructure, namely the road system, the water and sewer infrastructure, the electrical infrastructure, and the staffing and labor capabilities of the North Country will enable Laidlaw to expand the facilities or supplement the generation on the site, and continue to support the electrical requirements of the region, to advance and
 13 14 15 16 17 18 19 20 		expansion of this site in the future? Yes. The PPA is silent on the ability of Laidlaw to expand the facility. The current infrastructure, namely the road system, the water and sewer infrastructure, the electrical infrastructure, and the staffing and labor capabilities of the North Country will enable Laidlaw to expand the facilities or supplement the generation on the site, and continue to support the electrical requirements of the region, to advance and make more cost effective the total utilization of the property. The land area, at more

use wood gasification, pellet manufacturing facilities, and/or site industrial colocational development on the property utilizing waste heat and steam, or to provide
heat, hot water, and steam potentially to the Cascade Mill in Gorham, NH. All of
these are unique, credible, and positive aspects of the PPA which may not be found in
other locations in the state, and certainly not found on a number of existing wood
fired generation plants in the state and are part of the reason to approve this PPA.

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Q. What are some of the benefits that Laidlaw and Public Service gain from locating this facility in the City of Berlin?

10 A. The City of Berlin and the North Country region are highly experienced in the forest 11 products industry and have been for over 150 years. The City supports the PPA, and 12 its assumptions, calculations, and projections provided by Laidlaw and Public 13 Service. This PPA is positive to the City and to the North Country in that it produces 14 highly reliable, stable, clean, renewable electricity for both the region and the state 15 directly through the efforts and abilities of the local workforce, the community and its 16 employees, the City's infrastructure that it maintains for local suppliers and the 17 region's distribution base for materials, supplies, and disposables. The region 18 maintains a labor force which operates, maintains, and keeps running the forestry 19 equipment, trucks and handling equipment to deliver fuel, and a labor force which 20 ultimately can maintain, manage, and operate the power plant. This is a highly 21 trained work force with a proven track record of delivering more than 3,000 ton/day 22 of forest products into the economy on an annual basis for decades. This PPA should 23 be supported because the plant is correctly sited in the proper location to provide the

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- most cost effective benefits to the rate payers and capitalize on the ability of the region to provide infrastructure and labor for this asset.
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4 Q. There has been significant concern regarding the size of this facility. What is 5 your opinion for the City based on your experience regarding this matter?

6 A. The City of Berlin believes that Public Service Company of New Hampshire is 7 correctly proposing and supporting, through its PPA, a centralized wood fired electric 8 facility in the City of Berlin totaling 65 MW rather than purchasing Class 1 RECs 9 from more decentralized smaller new wood fired facilities which would have to be 10 built. The City agrees with this approach and hopes the PUC will too. The City, its employees and the regional business economy have long known that scale and 11 12 efficiency rules the capitalistic system. This has been painfully true for the North 13 Country region through the gradual decline of the paper industry, as more modern and 14 efficient paper facilities have been built on a worldwide basis squeezing out the 15 industry of Berlin, as evidenced by the demolition of the Burgess Pulp Mill, to which 16 this boiler was attached. The City recognizes and expects to maintain its obligation to 17 assure the success of the Laidlaw facility by maintaining significant sewer and water 18 infrastructure, road systems into the site, and support the necessary construction to 19 provide electrical infrastructure into the site. The City believes this scale is beneficial 20 to the City, the region, and the State, and is ultimately made possible through the 21 approval of the PPA.

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Q. There are unique features of this PPA. Are these a benefit to the City and the region in your opinion?

3 A. Yes. The City of Berlin considers the cumulative reduction factor, the right of first 4 refusal and the purchase option to be the unique features of the PPA and of 5 substantial benefit to the City of Berlin and the North Country. The City of Berlin is 6 familiar with and experienced in the negative impacts that can be created by property 7 owners. The bankruptcy of American Tissue and the bankruptcy of Crown Vantage 8 for the paper mills in the North Country region had a serious negative impact on the 9 entire region. The City of Berlin believes it is beneficial to the North Country, and to 10 the State as a whole that the PPA provide a wall between Laidlaw and the outright 11 sale of this plant, namely, Public Service's ability to vet the sale and step in as the 12 purchaser. Public Service Company of New Hampshire has operated in the North 13 Country for its entire life as a company, operates hydroelectric facilities, the 14 distribution and transmission system, major substations, and is the regional electric 15 supplier. It continues to be an excellent corporate citizen providing laudable service 16 to the North Country over the years and at times going above and beyond its call of 17 duty in both business and physical stamina.

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Q. Will the City support the construction of this plant and the use of its public rights of way?

A. Yes. The City anticipates and supports through the PPA, electrical infrastructure
upgrades for this power plant by way of upgrading to the 115 KV transmission

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system in and out of the City, the Gobal Street substation, and incoming station service, all with benefits to the City of Berlin and the North Country.

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Q. While the current marketplace for electrical services is significantly depressed
due to the unprecedented recession in modern times, what is your opinion
regarding the long term goals of this PPA and the City's support thereof?

7 A. The City of Berlin agrees with PSNH and finds it is in the North Country and State's 8 best interest that the Commission view the long term goals of the PPA as being in the 9 public interest. Specifically, short term market gyrations, REC prices gyrations, 10 power quotes, and capacity quotes do not determine a valid basis for whether or not 11 the 20 year PPA is in the public interest and subsequently in the interest of the City of 12 Berlin and the North Country. More specifically, there are long term scenarios and 13 long term potential occurrences for which this PPA would provide significant risk 14 mitigation and benefits to the rate payers of the state of New Hampshire, to the North 15 Country, and to the City of Berlin which could very easily occur based on various 16 high gas price scenarios, high capacity price scenarios, and/or carbon cap and trade. 17 More specifically, under a carbon constrained, high capacity cost market in the future, 18 this plant could save the rate payers of NH up to \$300,000,000 over 20 years, should 19 this PPA be approved, and the plant built.

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Q. What additional benefits for the City and the North Country are a result of the approval of this PPA and the construction of this plant?

3 A. Additional benefits from approval of the PPA to the City of Berlin and the North 4 Country include matching leveraged loan funds to the community of approximately 5 \$4.5 million for assistance to business, specifically the wood industry, \$250,000 in 6 job grants, \$500,000 to the City of Berlin for targeted economic development 7 funding, financial recovery zone facility bond financing, direct lending and loan fund 8 to the utilization and operation of local logging companies, development of a river 9 walk, snowmobile trail, new landscaping, local and regional social sponsorship and 10 activities, promotion and education of alternative energy within the regional school 11 systems, potential low cost thermal energy to the Cascade Mill in Gorham or other 12 co-locating businesses, a community parking facility, and a student intern program on 13 the development of alternative energy. In addition to the construction phase, these 14 long term development opportunities and benefits to the City of Berlin and the North 15 Country are only made possible through the approval of the proposed PPA.

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Q. Since the closure of the Burgess Mill, wood prices have gyrated in the region.
What is your opinion regarding the benefit of this PPA to the North Country
and the region related to fuel?

A. The City believes the PPA provides a positive benefit to the North Country and the
 region while recognizing a reasonable, predictable, and sustainable price for wood
 fuel which provides revenue to the land owner for land management and tax
 payments, provides a reasonable return to the logger to operate with sustainable

wages, operation and repair of equipment, vendor payments and a profit. These
 economic benefits to the region and the City of Berlin cannot be realized without the
 approval of the PPA and the construction of the plant.

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5 Q. Do you think this PPA may exhibit good foresight by PSNH and should be 6 approved by the PUC?

7 A. Yes. The City of Berlin's public officials and its citizens, and the North Country in 8 general, have been, and continue to be, active participants in the regional energy 9 markets. The region hosts significant hydroelectric plants, wood fired generation 10 plants, the hydroelectric plants on the Connecticut River, the situs of the Hydro 11 Quebec link to New England through Hydro Quebec One and Hydro Quebec Two, 12 situs of the major New England Power Company 230 volt transmission line 13 transmitting the electricity from the upper Connecticut River hydroelectric plants to 14 the state of Massachusetts, and the situs of the natural gas major transmission line 15 from Canada to Boston.. It has and continues to understand the integration of energy 16 into the regional economy and its positive and negative effects on industry. As such, 17 the City knows that a new high capacity, efficient, wood fired power plant can 18 provide significant capacity, energy, and renewable fuel benefits to PSNH, the City, 19 the region and the state. A number of existing power plants throughout the region are 20 aging, and becoming obsolete. While the market may be stressed in the short term, 21 the City believes approval of this PPA and the ultimate construction of this power 22 plant may prove to be significant foresight for the future as a number of power plants 23 in New England may potentially close over the next ten years. For example, the current discussion to close Vermont Yankee will reduce the company's (PSNH)
capacity entitlement by 20.8 MW in the winter, and the potential closure of the
Wyman 4 oil fired unit in Maine could potentially reduce Public Service's entitlement
by another 19.2 MW for a total of 40 MW lost in 2 units. These capacity related
energy facilities can easily be offset by the construction of the Laidlaw power plant
while adding the positive benefit of providing Class 1 REC's to the company,
meeting part of its legal requirements under NH law.

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9 Q. Does that conclude your testimony?

10 A. Yes it does.