BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

IN THE MATTER OF PUBLIC SERVICE)
COMPANY OF NEW MEXICO'S)
ABANDONMENT OF SAN JUAN) Case No. 19-00018-UT
GENERATING STATION UNITS 1 AND 4)

REBUTTAL TESTIMONY

OF

LAUREN AZAR

NMPRC CASE NO. 19-00018-UT INDEX TO THE REBUTTAL TESTIMONY OF LAUREN AZAR

WITNESS FOR PUBLIC SERVICE COMPANY OF NEW MEXICO

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AFFIDAVIT

1		I. INTRODUCTION
2	Q.	PLEASE STATE YOUR NAME, POSITION, BUSINESS ADDRESS AND
3		THE PARTY ON WHOSE BEHALF YOU ARE TESTIFYING.
4	A.	Lauren Azar, attorney and advisor of Azar Law LLC, 809 Spaight Street
5		Madison, Wisconsin 53703. I am testifying on behalf of Public Service Company
6		of New Mexico ("PNM").
7		
8	Q.	PLEASE PROVIDE A BRIEF SUMMARY OF YOUR BACKGROUND.
9	A.	After practicing environmental and energy law for 13 years, I served as a
10		Commissioner at the Public Service Commission of Wisconsin from 2007 to
11		2011. In 2011, Secretary Steven Chu, of the U.S. Department of Energy
12		("DOE"), asked me to be his senior advisor. He tasked me with helping to
13		eliminate barriers to electric infrastructure development to facilitate the
14		development of low- and no- carbon resources.
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16		I served in President Obama's Administration until 2013 when I opened my own
17		law firm and consulting firm. As a private attorney, I have represented utility
18		customers, utilities and a renewable-trade association. As a consultant, I have
19		advised a variety of non-governmental organizations on utility policy including
20		the Clean Power Plan and the development of renewable energy. I have testified

resume as PNM Exhibit LA-1 (Rebuttal).

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before the U.S. House of Representatives numerous times. I have attached my

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

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2	A.	I addı	ress how the proposed retirement of the San Juan coal plant comports with
3		both	the principles of sound and prudent regulatory practice as well as public
4		policy	as expressed through the Energy Transition Act. Specifically, I respond to
5		direct	testimony about the following topics:
6		a.	If the Energy Transition Act is applicable, whether it usurps the power of
7			the NMPRC. Some of my testimony is applicable regardless of whether
8			the Energy Transition Act applies, while other portions are pertinent only
9			if the New Mexico Public Regulation Commission ("NMPRC" or
10			"Commission") evaluates PNM's applications outside of the Energy
11			Transition Act framework.
12		b.	If the Energy Transition Act is for some reason determined by the
13			Commission as not applicable, whether the San Juan coal plant should be
14			abandoned and replaced with lower-carbon emitting resources.
15		c.	If the Energy Transition Act is for some reason determined by the
16			NMPRC as not applicable, whether PNM should receive a return on and a
17			return of its original investment in the San Juan coal plant, and, if so, how
18			much.
19		d.	How the NMPRC should approach costs related to potentially
20			contaminated property.
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¹ The return "of" the investment means allowing PNM to recover its original investment in the San Juan coal plant. A return "on" the investment means allowing PNM to receive a reasonable return, or profit, on that investment.

1	Q.	BASED ON YOUR EXPERIENCE AS A STATE COMMISSIONER AND
2		SENIOR ADVISOR TO THE DOE SECRETARY, WHAT ARE YOUR
3		CONCLUSIONS?
4	A.	My conclusions are as follows:
5		a. State legislatures throughout the United States are recognizing the need for
6		transformative change in their electric infrastructure. In response, many are
7		passing laws establishing frameworks and providing tools for addressing this new
8		reality. The New Mexico Legislature has joined those states and gave the
9		NMPRC tools to cost-effectively facilitate this transformation towards a lower-
10		and no-carbon future. The Energy Transition Act provides the Commission with
11		tools to benefit customers by replacing traditional debt-and-equity financing of
12		the unrecovered investment in the coal plant with debt-only financing through
13		securitization. The Act further gives the Commission powers to assist affected
14		communities in transitioning to a cleaner energy future.
15		b. To protect PNM's customers and in recognition of the New Mexico
16		Legislature's mandates on carbon emissions, the Commission should authorize
17		PNM to abandon the San Juan coal plant and replace it with resources that are
18		consistent with the emerging policies of the State of New Mexico to move to
19		lower-cost and lower-carbon sources of generation.
20		c. In recognition of the regulatory compact and sound regulatory policy, the
21		Commission should allow PNM to receive 100% of its prudent, prior investments
22		in the San Juan coal plant.

- 1 Based on the record in this case, the NMPRC should follow traditional 2 regulatory practice and provide PNM with a full return on those investments. 3 However, the most beneficial approach for customers is to securitize the 4 unrecovered investment in the San Juan coal plant as enabled by the Energy 5 Transition Act. 6 Because our nation's environmental laws have evolved over time, if 7 contamination were to be found at the San Juan coal plant site, that does not 8 necessarily mean PNM acted inappropriately. 9 10 Q. WHAT BACKGROUND INFORMATION DID YOU RELY ON TO 11 REACH THESE CONCLUSIONS? 12 Pursuant to the NMPRC issuing a Certificate of Public Need and Necessity A. 13 ("CNN"), Unit 1 of the San Juan coal plant came on line in 1973 and Unit 4 in 14 1982. (Application, p. 9.) Over the last nearly five decades, the NMPRC has
 - ("CNN"), Unit 1 of the San Juan coal plant came on line in 1973 and Unit 4 in 1982. (Application, p. 9.) Over the last nearly five decades, the NMPRC has included PNM's investments in San Juan coal plant in PNM's rate base. Through a series of NMPRC orders, PNM's investments in the coal plant were to be depreciated until 2053. (Monroy Direct 49:9-10.) Over the last 45 years, PNM's customers have been receiving the benefit of electricity being produced by the coal plant and, subject to certain exceptions, PNM has been receiving a return on and of its investment in the coal plant. As of June 2022, approximately \$283 million would remain undepreciated and in ratebase ("Undepreciated

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Investment").² PNM's abandonment application is not unlike challenges other states have faced; namely, generation resources that have served capably and cost-effectively for decades are no longer needed and can be replaced with lower-cost, cleaner generation resources.

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In its Final Order in Case No. 13-00390-UT, the NMPRC required that PNM evaluate whether to continue to operate Units 1 and 4 after June 30, 2022, when the current coal supply and operating agreements would expire. (Application, p. PNM's 2017 Integrated Resource Plan ("2017 IRP") and subsequent 10.) analyses show it benefits customers to replace the coal plant with alternative (Application, p. 10.) Indeed, studies show that PNM's revenue resources. requirement – and hence costs to customers -- could decrease in the first year after removing the San Juan coal plant from PNM's ratebase. (Phillips Direct 14:12-16.) Conservatively, the savings to customers has been estimated to be in the hundreds of millions with securitization and tens of millions without securitization. All of the cost studies conducted by PNM that demonstrate these significant net benefits assumed that PNM would receive a 100% return on and of PNM's Undepreciated Investment. (Monroy Direct 48:10-13.) Moreover, none of the current owners of Units 1 and 4 have entered into new operating agreements, and all owners but one do not intend to rely on the plant beyond June

² The following PNM investments in the San Juan coal plant are not included in the \$283 million of Undepreciated Investment: investment in the balanced draft technology for units 1 and 4, investments associated with 132 MW and 65 MW in Unit 4, and the net book value of the San Juan switchyard. (Monroy Direct 8:16-18, 12:12-13:2.)

1		30, 2022. Based on years of study, PNM concluded it was prudent to abandon the
2		San Juan coal plant and replace it with lower- and no-carbon emitting resources.
3		
4		During the 2019 legislative session, the New Mexico Legislature passed the
5		Energy Transition Act. Recognizing the rapidly changing environment in the
6		electric industry, the Legislature set forth a number of ambitious goals to
7		decarbonize New Mexico's electric industry. ³ The Legislature gave the NMPRC
8		the tools and framework on how the State and Commission would abandon and
9		decommission existing generators that would not meet these new goals. In
10		response to the Energy Transition Act, PNM testified that it has been working
11		hard to achieve zero emission goals by 2040. (Darnell Direct, 4:4-5.)
12		
13 14	II.	RESPONSE TO NEE WITNESSES FETTER AND GRUBB REGARDING THE NMPRC ANDTHE ENERGY TRANSITION ACT
15	Q.	AS A FELLOW FORMER REGULATOR, HOW WOULD YOU RESPOND
16		TO NEE WITNESS AND FORMER COMMISSIONER FETTER'S
17		CRITIQUE OF THE ENERGY TRANSITION ACT?
18	A.	While NEE Witness Commissioner Fetter may not like the balance struck by
19		certain provisions in the Energy Transition Act, but it is the law that the New

³ "ETA's new statewide renewable energy standards set forth the milestones that are to be achieved in the transition from carbon-emitting generation sources to zero-carbon generation by 2045. The Act provides for intermediate steps, with a goal of 50 percent renewable energy production by 2030 for New Mexico investor-owned utilities, 80 percent renewable energy by 2040, and zero-carbon resources for investor-owned utilities by 2045. Section 36 of the ETA provides for stricter new limits on carbon dioxide emissions by January 1, 2023 for generating facilities that would include the SJGS." (Crane Direct 15:9-16:2.)

1		Mexico Legislature passed and New Mexico Governor Lujan Grisham signed. It
2		sets the energy policy course for New Mexico. This case is about the San Juan
3		coal plant and the tools available to the Commission to close and replace that
4		plant in a way that benefits customers and helps affected communities.
5		
6	Q.	DOES THE ENERGY TRANSITION ACT INAPPROPRIATELY
7		CONSTRAIN THE NMPRC AS ALLEGED BY NEE WITNESSES GRUBB
8		AND FETTER? (GRUBB DIRECT 9:2-4,11:6-7; FETTER DIRECT 6:17-
9		21.)
10	A.	No. The New Mexico Constitution sets forth the framework for evaluating this
11		question:
12 13 14 15 16 17 18		The public regulation commission shall have responsibility for regulating public utilities, including electric, natural gas and water companies; transportation companies, including common and contract carriers; transmission and pipeline companies, including telephone, telegraph and information transmission companies; insurance companies and others engaged in risk assumption; and other public service companies <u>in such manner as the legislature shall provide</u> .
20		N.M. Const. Article XI, Section 2 (Emphasis added). Regulatory commissions
21		throughout the United States successfully work within the constitutional and
22		statutory frameworks created by other governmental branches including state
23		legislatures. When I was a Commissioner, there were some Wisconsin laws
24		enacted that I did not particularly agree with. But, my job as a Commissioner was
25		to render decisions under the existing statutes regardless of whether I agreed with

them or not. Indeed, there were decisions I made that complied with the law, but with which I personally did not agree.

More and more, legislatures are providing guidance and tools to their commissions to speed the transition to a lower-carbon economy. This is a positive development: providing utilities with clear direction on the type of generation needed over the next ten, twenty and thirty years will facilitate a more cost-effective, environmentally-friendly and orderly transition in the utilities' generation portfolios. The Energy Transition Act provides this clear direction to New Mexico's utilities.

Many states have been following a path similar to New Mexico, where cost-effective, lower- and no-carbon resource planning is driven by the combined action of the legislative and executive branches. Examples include California, Colorado, Illinois, Hawaii, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Vermont, Washington and Washington D.C.⁴

⁴ The following are citations to relevant legislation in other states: California (SB100, 100% by 2045); Colorado (House Bill 19-1261; House Bill 19-1314, 100% by 2040); Illinois (Clean Energy Jobs Act, 100% by 2050); Hawaii (HB 623,100% by 2045); Maine 129 LR 2478, LD 1679, SP 550, 80% renewables by 2030); Maryland (Clean Energy Jobs Act, 50% by 2030); Massachusetts (H 4857, Clean Energy Bill); Minnesota (Next Generation Energy Act, 25% by 2025 and 80% by 2050 with new bills pending); Nevada (SB 358, 50 % by 2030, 100% by 2050); New Jersey (Clean Energy Act, 50% by 2030); New York (70% by 2030, 100% by 2040); Oregon (Clean Electricity and Coal Transition Act); Vermont 75% by 2032; Washington (SB 5116, 100% by 2045); Washington D.C. (CEDC Act, 100% by 2032).

	TRANSITION ACT PROVIDES TO THE NMPRC?
١.	First, the NMPRC can minimize the economic impacts of transitioning from coal
	to lower- and no-carbon resources through securitization under the Energy
	Transition Act. Many other states are successfully encouraging retirements of
	high-carbon generators while minimizing the impacts to customers through
	securitizing the Undepreciated Investment. The Energy Transition Act mandates
	that this cost-saving tool be available to utilities in New Mexico. Second, through
	the Energy Transition Act, the NMPRC will also be able to compensate those
	communities and workforces that would be hardest hit by the plant retirements.
	The statute enables the NMPRC to require PNM to pay for costs not directly
	related to utility services, when securitized financing is used.
	III. SHOULD PNM ABANDON THE SAN JUAN COAL PLANT?
Q.	NUMEROUS WITNESSES HAVE IDENTIFIED THE REGULATORY
٠.	COMPACT AS A KEY COMPONENT IN THIS DOCKET. (SISNEROS
	DIRECT 6:15-19, 9:7-11; ESCHBERGER DIRECT 13:1-18; FETTER
	DIRECT 7:20-8:16.) WHAT IS THE REGULATORY COMPACT?
۸.	When electric utilities were first emerging in the early 1900s, the states agreed to
	provide them with protection from competitors if the utilities agreed to provide

1		service territory. In return, the utilities agreed that the states could regulate them.
2		This agreement was called the regulatory compact.
3		
4		Under the compact, regulators ensure that the utilities do not abuse their market
5		power as a monopoly. "The essence of regulation is the explicit replacement of
6		competition with governmental orders as the principal institutional device for
7		assuring good performance." Alfred Kahn The Economics of Regulation:
8		Principals and Institutions, Vol. I. p. 20 (1970). The regulatory compact balances
9		the public interest of customers with the business interests of the utility through,
10		among other things, the following:
11		• ensuring that the utility's service and rates are just, reasonable and non-
12		discriminatory; and
13		 providing the utilities an opportunity to recover prudently expended costs
14		plus a reasonable return on their investments.
15		The regulatory compact protects both customers and the utilities.
16		
17	Q.	WHY IS THE REGULATORY COMPACT IMPORTANT IN
18		DETERMINING WHETHER THE SAN JUAN COAL PLANT SHOULD
19		BE RETIRED AND REPLACED WITH NEW RESOURCES?
20	Α.	Under the regulatory compact, utilities are required to properly manage their
21		businesses. This includes evaluating, among other things, whether they should
22		continue to maintain their assets or whether it is better to retire and replace them.
23		In a competitive environment, well-run businesses do this all of the time: they

1		determine if it would be more cost-effective and better for their business to
2		abandon older (but still functional) equipment for new equipment. PNM had been
3		evaluating the cost-effectiveness of continuing to operate San Juan coal plant
4		Units 1 and 4 for many years. (Phillips Direct 4:5-8.) In its 2017 IRP, PNM
5	-	concluded it would be best if PNM retired the San Juan coal plant and replaced it
6		with new resources. (Fenton Direct 2:14-16.)
7		
8		PNM Witness Phillips' testimony establishes that operating the San Juan coal
9		plant beyond 2022 would not be cost-effective. (Phillips Direct 3:22-4:6.) NM
10		AREA Witness Dauphinais conducted additional analysis and confirmed that
11		abandonment of San Juan coal plant Units 1 and 4 in 2022 would have a lower
12		revenue requirement than continuing to operate the units. (Dauphinais Direct
13		15:13-17.) PNM Witness Graves conducted an independent review of PNM's
14		analysis and concluded that it is reasonable. (Graves Rebuttal.)
15		
16	Q.	IF PNM WERE FUNCTIONING IN A COMPETITIVE ENVIRONMENT,
17		WOULD ABANDONING THE SAN JUAN COAL PLANT IN 2022 BE
18		APPROPRIATE?
19	A.	Absolutely. With the exception of Staff Witness Solomon, all intervenor
20		witnesses who addressed the issue believe there is sufficient justification to
21		approve PNM's request for abandonment. (Begaye Direct 2:28-30; Crane Direct
22		8:14-16; Dauphinais Direct 13:7-14; Grubb 3:16-17; Howe Direct 2:15-16;
23		O'Donnell Direct 3:11-13; Schwartz Direct 48:5-9.)

Staff Witness Solomon's reticence is based on a pre-feasibility study for carbon
capture, utilization, and sequestration ("CCUS") at the San Juan coal plant
Witness Solomon believes more study is required before a decision can be made
(Solomon Direct 20:9-12.) However, if the San Juan coal plant is ultimately
retired in 2022, PNM must take action now to replace that capacity or risk having
insufficient resource adequacy, i.e., or risk violating PNM's statutory duties
(Darnell Direct 16:1-7; Fallgren Direct 18:14-19:6.) Given these time constraints
it would not be prudent for PNM to delay obtaining replacement resources based
on questions raised by a pre-feasibility study of an expensive and immature
technology. (Graves Rebuttal.)
In contrast to Staff Witness Solomon, who merely asked for more analysis, PNM
Witness Graves analyzed the economics of CCUS and concluded that relative to
the cost of continuing to operate the San Juan coal plant as-is, the cost of carbon
capture under all but the most optimistic hypotheses would be significantly more
expensive on a net present value basis. (Graves Rebuttal.) Moreover, PNM
conducted its own analysis and confirmed that CCUS would increase costs to
consumers over the proposed abandonment and resource replacement. (Phillips
Rebuttal.)
The Commission should grant PNM's application to abandon the San Juan coa
plant and approve suitable replacement resources for the lost capacity so they are
available by 2022

1 IV. RETURN ON AND OF PNM'S INVESTMENT IN SAN JUAN COAL 2 PLANT IF THE ETA DOES NOT APPLY

3	Q.	HOW SHOULD THE COMMISSION EVALUTE WHETHER TO
4		PROVIDE A RETURN ON AND OF PNM'S INVESTMENT IN THE SAN
5		JUAN COAL PLANT?
6	A.	If the Energy Transition Act is determined not to apply, the Commission must
7		decide how much of PNM's original investment in the San Juan coal plant, the
8		costs for abandonment, and the investments in replacement resources should be
9		included within PNM's rates. Rates must be just, reasonable and non-
10		discriminatory. (See also Section 62-8-1 of the New Mexico Public Utilities Act
11		requiring that "every rate made, demanded or received by any public utility shall
12		be just and reasonable.") There is no pre-determined manner of calculating what
13		constitutes "just and reasonable." The U.S. Supreme Court has stated that a
14		regulatory body is "not bound to the use of any single formula or combination of
15		formulae in determining rates" and, when establishing rates, "it is the result
16		reached not the method employed which is controlling." FPC v. Hope, 320 U.S.
17		591, 602, 64 S. Ct. 281; 88 L.Ed.333 (1943). See also Hobbs Gas Co. v. New
18		Mexico Public Service Comm'n., 94 N.M. 731, 616 P.2d 1116 (N.M. 1980).
19		My testimony will focus on whether it would be just and reasonable for PNM to
20		receive a return on and return of its \$283 million of Undepreciated Investment in
21		the San Juan coal plant.

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1		The regulatory compact provides considerations that can be used in determining						
2		just and reasonable rates when facing the retirement of Undepreciated Investment.						
3		Such considerations include the following:						
4		 whether the Undepreciated Investment was prudently incurred; 						
5		• what incentives would be created for allowing recovery of the						
6		Undepreciated Investment;						
7		whether risk has been appropriately allocated when allocating the recovery						
8		of the Undepreciated Investment;						
9		• how the used-and-useful theory should apply to the recovery of the						
10		Undepreciated Investment; and						
11		• whether the interests of customers and the utilities are appropriately						
12		balanced when allocating the recovery of the Undepreciated Investment.						
13		Below, I apply each of these considerations to the return on and of PNM's						
14		Undepreciated Investment.						
15								
16	Q.	WAS PNM'S UNDEPRECIATED INVESTMENT PRUDENTLY						
17		INCURRED?						
18	A.	Yes. One of the tests the Commission should apply to the Undepreciated						
19		Investment is whether it was prudently incurred. New Mexico Statutes Chapter						
20	62 repeatedly refers to "prudent and reasonable costs" but does not define it.							
21		However, the New Mexico Supreme Court has defined prudence as follows:						
22 23		Prudence is that standard of care which a reasonable person would be expected to exercise under the same circumstances						

1 2 3 4		encountered by utility management at the time decisions had to be made. In determining whether a judgment was prudently made, only those facts available at the time judgment was exercised can be considered. Hindsight review is impermissible.
5 6 7 8		Imprudence cannot be sustained by substituting one's judgment for that of another. The prudence standard recognizes that reasonable persons can have honest differences of opinion without one or the other necessarily being imprudent.
9		Public Serv. Co. v. N.M. Public Regulation Comm'n, 444 P.3d 460, ¶ 29 (N.M.
10		2019).
11		Because the NMPRC approved the majority of PNM's Undepreciated Investment,
12		and because the costs have remained within PNM's ratebase over the last 45
13		years, one can presume that the Undepreciated Investment is prudent. Many
14		believe that once costs are deemed "prudent" then the analysis is complete and the
15		utility should be allowed to recover those costs. Indeed, even NEE Witness
16		Commissioner Fetter believes that "every utility is entitled to recover all of its
17		prudently-incurred costs." (Fetter Direct 19:1-2.)
18		
19	Q.	STAFF WITNESS SISNEROS TESTIFIED THAT ALLOWING PNM TO
20		RECOVER 100% OF ITS INVESTMENT WOULD GIVE PNM "A
21		PERVERSE INCENTIVE TO VENTURE INTO MORE RISKY
22		INVESTMENTS." (SISNEROS DIRECT 8:8-14.) DO YOU AGREE?
23	A.	No. On the contrary, disallowing full recovery of the Undepreciated Investment
24		would incentivize utilities to run their generation plants until the absolute end of
25		their accounting lives, regardless of the impacts on customers. Such an incentive
26		would be particularly damaging right now as the industry is rapidly changing. As

noted above, as a surrogate for the competitive business world, the Commission should be encouraging the evaluation and possible abandonment of older, more expensive and carbon-heavy technologies. Indeed, the State of New Mexico's new energy policy in the Energy Transition Act mandates it.

PNM Witness Graves' testimony demonstrates that abandonment and replacement are best for the customers and allowing PNM to recover 100% of the Undepreciated Investment is an appropriate outcome. (Graves Rebuttal.)

Also, Staff Witness Sisneros testifies that building the San Juan coal plant was a "risky investment" and the Commission should not incentivize "more" such investments by returning 100% of the Undepreciated Investment to PNM. (Sisneros Direct 8:8-14.) But Staff Witness Sisneros does not provide evidence that the Undepreciated Investment was a "risky investment." As I understand the facts, the Commission approved the construction of the San Juan coal plant and has approved most of its capital improvements and its operation and maintenance budgets over the last 45 years through numerous PNM rate and other regulatory cases. Hence, the Commission's prior actions demonstrate that PNM appropriately incurred the Undepreciated Investment and there is no evidence in the record suggesting otherwise. Furthermore, the San Juan coal plant was approved and built during the era of the late-1970s and early-1980s when coal-fired technology was low cost, state-of-the-art and beneficial as compared to alternatives. Throughout the western U.S. and the nation at that time, utilities

1		built coal-generating stations that served their customers cost-effectively. Now			
2		that time is coming to an end, but it does not mean decisions made over 40 years			
3		ago were imprudent, or that ongoing improvements to those coal stations did not			
4		make financial and regulatory sense at the time.			
5					
6		Finally, the arbitrary disallowance of prudently incurred costs could incentivize a			
7		utility to manage risk differently when dealing with long-lived capital assets such			
8		as a generation plant. Specifically, a utility that fears its commission may			
9		disallow recovery of Undepreciated Investments is more likely to avoid long-term			
10		capital investment and/or could seek to shorten the depreciation life of any asset.			
11		This would mean a higher rate impact for customers and a stronger aversion by			
12		the utility for long-term investments.			
13					
14	Q.	NMAG WITNESS CRANE TESTIFIED THAT ALLOWING PNM TO			
15		RECOVER 100% OF ITS INVESTMENT WOULD INAPPROPRIATELY			
16		SHIFT THE RISK OF THE ORIGINAL INVESTMENT FROM			
17		SHAREHOLDERS TO RATEPAYERS. DO YOU AGREE? (CRANE			
18		DIRECT 24:20-25:3.)			
19	A.	No. First, it is unclear to what risk NMAG Witness Crane is referring. "The			
20		'risk' with which regulators are mainly concerned these days are prudent			
21		investments that are made in the normal course of utility business to provide			
22		service to customers, and that then either fail, yield poor results (e.g., capacity			
23		underutilization), or produce long-delayed benefits and returns." Hoecker, Used			

1		and Useful: Autopsy of a Ratemaking Policy, Energy Law Journal, Vol. 8:303 p.
2		321 (1987). PNM has been holding the risk of San Juan coal plant for the last 45
3		years, all while providing benefits to the customers.
4		
5		Second, choosing to abandon the plant prior to the end of its life is also a benefit
6		to customers and eliminates further operational risk from the plant. Once the
. 7		plant is abandoned and the site decommissioned, there is no longer an ongoing
8		risk to consumers or shareholders. Allowing PNM to recover 100% of its
9		Undepreciated Investment, therefore, does not inappropriately shift risk.
10		
11		Finally, as noted in my response to Staff Witness Sisneros's critique, arbitrarily
12		disallowing undepreciated investments creates new risks for utilities and their
13		shareholders that could result in the following unintended consequences: less
14		investment by utilities in long-term assets and a request for shorter depreciation
15		lives of assets leading to higher rates. Also, shareholders could demand higher
16		returns to compensate for the increased risk of regulatory hindsight disallowing
17		investment. None of these consequences is good for customers.
18		
19	Q.	STAFF WITNESS ESCHBERGER AND NMAG WITNESS CRANE
20		TESTIFIED THAT BECAUSE THE SAN JUAN COAL PLANT WILL NO
21		LONGER BE USED AND USEFUL THAT PNM IS NOT ENTITLED TO
22		RECOVER THEIR UNDEPRECIATED INVESTMENT. DO YOU

1		AGREE? (ESCHBERGER DIRECT 12:4-7; 12:14-18; CRANE DIRECT
2		54:1-3.)
3	A.	No. The used and useful standard is commonly applied in deciding what electric
4		assets should be placed or remain within ratebase—i.e. upon what assets a utility
5		should receive a profit. ⁵ However, Staff Witness Eschberger and NMAG Witness
6		Crane propose that the standard be used to deny recovery of the initial investment
7		itself. The customers have benefitted from the San Juan coal plant over last 45
8		years, i.e. it was used and useful for 45 years. Because the depreciation period is
9		through 2053, those past customers did not pay for the whole investment even
10		though they were benefitting from the San Juan coal plant. Additionally, future
11		customers will financially benefit from the replacement of the San Juan coal plant
12		with the proposed new resources and they will benefit environmentally from
13		replacing a coal plant with new lower- and no-carbon resources. (Fallgren Direct:
14		8:20-11:2; Phillips Rebuttal.) Based on my experience, it would be inequitable to
15		disallow recovery of prudently incurred costs that have benefitted customers for

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depreciated.

investors' costs over the long-term.

45 years without full replacement of costs and to penalize a utility for saving

future customers money by retiring an older generator before it is fully

The Commission should try to align customers' benefits and

⁵ "[T]he used and useful case law of regulatory agencies is largely concerned with assets eligible for rate base, *i.e.*, the investment in physical plant upon which utilities may earn a return." Hoecker, *Used and Useful*, p. 312; *N.M. Industrial Energy Consumers v. N.M. Public Regulation Comm'n*, 104 N.M. 565, 725 P.2d 244 (1986) ("[o]ur caselaw confirms that the 'used and useful' concept is but one factor among many to be considered by the Commission in its rate base analysis."; *see also Alto Village Services v. New Mexico Public Serv. Comm'n*, 92 N.M. 323, 587 P.2d 1334 (1978) (whether utility property is "used and useful" and therefore to be included in rate base is a factual determination).

1	Q.	STAFF WITNESSES SISNEROS AND ESCHBERGER TESTIFIED THAT
2		THE REGULATORY COMPACT REQUIRES THAT THE
3		UNDEPRECIATED INVESTMENT BE SPLIT BETWEEN THE
4		SHAREHOLDERS AND RATEPAYERS. (SISNEROS DIRECT 6:15-19;
5		9:7-11. ESCHBERGER DIRECT 12:5-9.) DO YOU AGREE?
6	A.	No. While the regulatory compact requires a balancing of interests between the
7		shareholders and customers, "balancing" does not equate to splitting. When
8		determining how best to balance the interests between shareholders and
9		customers, one should incorporate the other considerations within the regulatory
10		compact including prudence, risk, and incentives. As noted above, the NMPRC
11		has already found the Undepreciated Investment to be prudent and the
12		shareholders have been holding risk of the plant for 45 years. Moreover, with
13		abandonment, PNM will be eliminating the operating risk from that plant, and
14		PNM should be incentivized to retire and replace plants when it is cost-effective,
15		benefits customers and comports with New Mexico's new carbon policy.
16		Ordering that PNM recover anything less than 100% of PNM's Undepreciated
17		Investment would, among other things, send the wrong signal to PNM about
18		whether it should invest in long-term capital assets.
19		
20	Q.	STAFF WITNESS ESCHBERGER, STAFF WITNESS TUPLER, AND
21		NMAG WITNESS CRANE ADVOCATE FOR FOLLOWING THE SAME
22		FRAMEWORK USED IN THE ABANDONMENT OF SAN JUAN UNITS 2
23		AND 3 AND APPLYING A 50/50 SPLIT RETWEEN SHAREHOLDERS

1		AND RATEPAYERS. (ESCHBERGER DIRECT 6:5-11, 8:16-9:4; TUPLER
2		DIRECT 5:6-9; CRANE DIRECT 24:14 – 25:17, 57:12-18.) DO YOU
3		AGREE?
4	A.	No. Staff conceded that the framework used for Units 2 and 3 has no precedential
5.		effect on this case. (Eschberger Direct 4:11-12.) Because of the many facets and
6		compromises that went into the Stipulation for the abandonment of Units 2 and 3,
7		that Stipulation and the subsequent NMPRC decision should have no influence on
8		the Commission's evaluation of Units 1 and 4 because there are material
9		differences between the two cases. For example: (1) the State of New Mexico did
10		not have an aggressive carbon policy in place during the last case; (2) the
11		retirement of Units 2 and 3 was prompted by the need to address the federal
12		mandate regarding regional haze (Phillips Direct 4:10-13); (3) PNM was granted
13		a CCN to include Unit 3 of the Palo Verde Nuclear coal plant for this resource to
14		be included in PNM's rate base; and (4) in this case, with the exception of
15		Farmington, all other owners of San Juan coal plant intend to exit participation in
16		the San Juan coal plant. (Phillips Direct 6:9-11; Darnell Rebuttal.)
17		
18		Rather than arbitrarily plucking one component from that Stipulation that does not
19		reflect other tradeoffs and benefits, the Commission should look at the totality of
20		the circumstances in determining what is just and reasonable.
21		

WHAT ABOUT THE RETURN ON UNDEPRECIATED INVESTMENT? 1 Q. The testimony above demonstrated that the retirement of the San Juan coal plant 2 A. prior to the end of its useful life is prudent, that the Undepreciated Investment was 3 prudently incurred and that PNM, therefore, should receive a 100% return "of" its 4 5 Undepreciated Investment. Traditional ratemaking allows a utility to receive, not only a return "of", but also a return "on" all prudently incurred costs. (Fetter 6 Direct 19:1-2; FERC Order No. 888 at 490 (1996); Darnell Rebuttal). While 7 8 there are exceptions, there is nothing in the record of this case that I reviewed that 9 would require a deviation from this traditional rule. 10 11 Most importantly, the record shows that consumers will economically benefit from PNM's proposal where PNM receives 100% return of and return on its 12 While economic benefits will accrue without 13 Undepreciated Investment. 14 securitization, the least costly way to handle the return on the Undepreciated Investment is to utilize the securitization tool provided by the Energy Transition 15 Act. (Howe Direct 5: 10-11.) 16 17 In addition to benefitting customers, awarding a 100% return on the 18 Undepreciated Investment would also incentivize shareholders to continue to 19 invest in PNM's long-term infrastructure development. Hence a 100% recovery 20 for the Undepreciated Investment would benefit both customers and shareholders. 21

22

1 2		V. ENVIRONMENTAL CONCERNS ABOUT THE SAN JUAN COAL PLANT
3	Q.	WHY ARE YOU ADDRESSING ENVIRONMENTAL CONCERNS AT
4		THE SAN JUAN COAL PLANT?
5	A.	NEE Witnesses Norvelle, Grogan and Hutson testify about the environmental
6		conditions at the San Juan coal plant, including past alleged discharges early in
7		the plant's operation. (Norvelle Direct 1:9-10, 2:12-14, 3:1-2, 3:12-14, 4:15-18;
8		Grogan Direct 2:18-20, 3:3-5; Hutson Direct 5:1-3, 7:5-7.) During my first 13
9		years of private law practice, I represented numerous individuals and companies
10		who owned contaminated properties and were remediating them, ranging from
11		mom-and-pop gas station owners to companies involved in Superfund sites.
12		learned a lot about contamination that helped inform my work as a Commissioner
13		when faced with impacted utility property.
14		
15	Q.	AS A COMMISSIONER, HOW DID YOU APPROACH IMPACTED
16		UTILITY PROPERTY?
17	A.	The mere existence of impacted property does not mean that the utility acted
18		inappropriately at the time of the spill or discharge. Environmental laws have
19		changed dramatically since the 1970s when the San Juan Coal Plant came on line
20		Over time, what was once perfectly legal – such as discharging materials into soi
21		or water bodies – became impermissible or regulated.
22		

1		NEE Witness Hutson discusses his conclusions about possible existing or future
2		contamination at San Juan. As explained by PNM Witnesses Cowin and Hale,
3		these conclusions are not well-founded. (Cowin Rebuttal; Hale Rebuttal.)
4		Moreover, the San Juan coal plant is subject to strict oversight by the New
5		Mexico Environment Department and the U.S. Environmental Protection Agency.
6		
7		Resolving disputes about environmental compliance and impacts is within the
8		purview of these environmental agencies and not utility commissions.
9		
10	Q.	IS THE FACT THAT THERE MAY HAVE BEEN IMPACTS TO THE
11		ENVIRONMENT FROM PLANT OPERATIONS EVIDENCE OF
12		IMPRUDENT OPERATIONS?
13	A.	No. A coal-fired power plant is an industrial operation and there will be impacts
13 14	A.	No. A coal-fired power plant is an industrial operation and there will be impacts to the environment. The mere existence of environmental impacts is not
	A.	
14	A.	to the environment. The mere existence of environmental impacts is not
14 15	A. Q.	to the environment. The mere existence of environmental impacts is not
141516		to the environment. The mere existence of environmental impacts is not indicative of imprudent operations.
14151617		to the environment. The mere existence of environmental impacts is not indicative of imprudent operations. IS PNM SEEKING ANY COSTS IN THIS CASE FOR ADDRESSING ANY
14 15 16 17 18		to the environment. The mere existence of environmental impacts is not indicative of imprudent operations. IS PNM SEEKING ANY COSTS IN THIS CASE FOR ADDRESSING ANY POTENTIAL FUTURE ENVIRONMENTAL ISSUES THAT MAY BE
14 15 16 17 18	Q.	to the environment. The mere existence of environmental impacts is not indicative of imprudent operations. IS PNM SEEKING ANY COSTS IN THIS CASE FOR ADDRESSING ANY POTENTIAL FUTURE ENVIRONMENTAL ISSUES THAT MAY BE FOUND AT THE SAN JUAN COAL PLANT?

1		presented in a future rate case or other appropriate proceeding for review by the
2		Commission prior to any allowed recovery by PNM.
3		
4		VI. CONCLUSION
5	Q.	DO YOU HAVE CONCLUDING REMARKS?
6	A.	At least 14 state legislatures, including New Mexico are requiring their electric
7		utilities to transition to cost-effective, low- and no-carbon resources. The Energy
8		Transition Act provides the NMPRC with tools to minimize the costs of this
9		transformation through securitization and to assist the communities and workers
10		adversely affected by the changes.
11		
12		Whether the Energy Transition Act applies or not, PNM's proposed abandonment
13		and replacement of the San Juan coal plant both will save customers money and
14		will provide environmentally better generation. The record clearly demonstrates
15		that the NMPRC should approve the abandonment of the San Juan coal plant.
16		•
17		Over the last 45 years, customers have received reliable power from the San Juan
18		coal plant but have only paid for part of it. Because of unforeseen events, the
19		useful life of the San Juan coal plant has been cut short and before the end of its
20		accounting life. Nevertheless, PNM made a prudent decision to construct and
21		operate the San Juan coal plant over the last 45 years. PNM is also making a
22		prudent decision to retire and replace that unit before the end of its useful and

1		accounting lives. The NMPRC should provide 100% return of the Undepreciated
2		Investment and, based on the record in this case, should provide a full return "on"
3		that investment. The most cost-effective manner of dealing with the return on the
4		Undepreciated Investment is to utilize the securitization tool enabled by the
5		Energy Transition Act.
5		
7	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
8	A.	Yes it does.

GCG#526361

Resume of Lauren Azar

PNM Exhibit LA-1 (Rebuttal)

Is contained in the following 10 pages.



Lauren L. Azar
Azar Law LLC
Azar Consulting LLC
Madison, Wisconsin
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Education

- **J.D.** University of Wisconsin Madison, 1994, *cum laude,* Order of the Coif, Business Editor of *Wisconsin Women's Law Journal*
- **M.S.** University of Wisconsin Madison, 1994, Water Resources Management
- M.A. Northwestern University, 1987, Philosophy
- B.A. Rutgers College, 1984, High Honors

Employment Summary

Azar Law LLC, Owner
Azar Consulting LLC, Owner
September 2013 - Present

U.S. Department of Energy (DOE), Senior Advisor to the Secretary June 2011 – September 2013

Public Service Commission of Wisconsin (PSCW), Commissioner March 2007 – June 2011

Michael Best & Friedrich LLP (a corporate law firm)

2001-2007 Partner 1994-2001 Associate 1992-1994 Clerk

Dane County Housing Authority

1989-1990 Assistant to the Director 1988-1989 Housing Counseling Specialist

Lawyer and Advisor

Through Azar Law LLC and Azar Consulting LLC, Lauren is providing a variety of services in the energy field both for the private and public sectors. Her work includes business, regulatory and policy advice as well as traditional legal services--such as project development, permitting, and siting. Topical areas have included: renewables, resilience, transmission, climate change, new utility business models, new technologies, energy security, and utility mergers and acquisitions.

Senior Advisor to the Secretary

As Secretary Steven Chu's Senior Advisor, Azar advised the Secretary on the electric industry and on the institutional barriers to developing the Nation's electric infrastructure. Among other things, Ms. Azar co-led the negotiations among nine federal agencies to overhaul their evaluation of transmission

projects of regional and national significance. She represented the DOE in President Obama's initiative to streamline federal permitting, which resulted in federal legislation. Secretary Chu also tapped Ms. Azar to spearhead an initiative with the DOE's power marketing administrations to ensure they are leaders in the development of a modern, secure and reliable transmission grid. She oversaw an immediate staff of up to seven.

With top-secret clearance, Ms. Azar became familiar with cyber security vulnerabilities and threats. She had frequent contacts with Congressional members, Federal Energy Regulatory Commissioners, and their staffers on issues relating to electric infrastructure. Ms. Azar regularly engaged with state public utility commissioners on issues of mutual interest.

Accomplishments as Utility Commissioner

Ms. Azar served as one of three Commissioners at the Public Service Commission of Wisconsin (Commission), which is an independent governmental agency overseeing the electric, natural gas, water and telecommunications industries in the State of Wisconsin. Commissioners have both legislative and adjudicatory powers. Among other things, the Commission sets the rates and approves construction applications for electric and water public utilities, oversees natural gas supply plans for Wisconsin utilities and administers the telecommunications' Universal Service Fund.

Commissioner Azar organized the 39 states, Washington D.C. and eight Canadian provinces and territories within the eastern transmission interconnection to participate in interconnection-wide planning studies. As cofounder and first President of the Eastern Interconnection States Planning Council (EISPC), she sought and received \$14 million dollars from the United States Department of Energy (DOE). In its inaugural year, Commissioner Azar led the Council through this unprecedented joint planning effort. In October 2010, Commissioner Azar was sent to Berlin Germany to meet with the energy regulators in the European Union about EISPC's objective and its successes.

Secretary Chu appointed Commissioner Azar as Vice Chair of the DOE's Electricity Advisory Council in 2010, which provides guidance to the DOE on its electricity initiatives.

From 2008 to 2010, Commissioner Azar served as the Commission's representative to the Organization of MISO States (OMS), a non-profit organization that represents the state interests within the Midwest Independent System Operator (MISO). At the time, MISO was the regional electric transmission operator over a 13-state region plus one Canadian province.

In 2009, Commissioner Azar was elected as the President of OMS and through her leadership, OMS developed a regional transmission plan over its footprint along with an attendant cost-allocation methodology. In 2009 and 2010, she chaired a stakeholder task force at MISO to develop a new cost allocation for new transmission lines. In December 2010, the Federal Energy Regulatory Commission adopted a new cost allocation tariff that considered both of the processes led by Commissioner Azar.

Commissioner Azar led the Commission's efforts on investigating the development of wind generation on Lakes Michigan and Superior and completed a report Harnessing Wisconsin's Energy Resources: An Initial Investigation into Great Lakes Wind Development.

Areas of Legal Concentration at Michael Best & Friedrich LLP While at Michael Best & Friedrich LLP, Ms. Azar practiced in the areas of public utilities, environmental, land use, government relations and administrative law, each of which is described in more detail below.

Public Utilities Law: Ms. Azar worked extensively in the area of electric and water utilities. Her public utility practice included creating the nation's first stand-alone transmission company, siting a 210-mile extra-high voltage line in Wisconsin and Minnesota, purchasing a nuclear power plant, and extending both water and electric service into new areas. Ms. Azar also represented ratepayers in a variety of roles including negotiating power purchase agreements and resolving disputes with utilities. She also represented independent power producers seeking to expand into Wisconsin. Her public utility practice brought her before the Public Service Commission of Wisconsin regularly.

Environmental Law: Ms. Azar participated in a full array of environmental projects, including the following: environmental cleanups, transactions involving insurance coverage for contaminated properties, wastewater permits, stormwater permits, and permits for developments involving wetlands. Ms. Azar's Master's Degree in Water Resources Management provides her with a sound technical background with which she approaches all environmental problems. In 2007, she co-edited and co-authored the *Wisconsin Environmental Law Handbook 4th Edition*, Government Institutes, Inc.

Land Use Law: Ms. Azar has a broad range of land use experience through representation of developers, individual property owners and municipalities. Such representation included the following: surface water disputes, cooperative boundary agreements, privately-owned wastewater treatment system ordinance drafting, adverse possession cases, dam disputes, brownfield development, regulatory takings, inter-municipal contracts, special use areas such as sanitary districts, permitting for non-metallic mining operations, and permitting for commercial developments. In addition to her legal experience, Ms. Azar also received front-line experience as a former member of the City of Madison Plan Commission.

Governmental Relations: Ms. Azar's practice regularly brought her before numerous state administrative agencies, including the Public Service Commission, the Department of Natural Resources and the Department of Commerce. For land use matters, she appeared before numerous municipalities at the staff level and before their legislative and adjudicative bodies. Ms. Azar's regulatory activities included permitting for a multitude of projects and obtaining funding for those projects. Ms. Azar has been involved in numerous political activities at the local and national levels.

Administrative Law: Combining litigation skills with a regulatory practice, Ms. Azar seamlessly moved from a proactive regulatory proceeding to, if

necessary, a contested-case hearing or civil litigation. With a Master's Degree in Water Resources Management, Ms. Azar brought technical skills to contested proceedings before local governments and state agencies.

Boards: Energy Related

Governor-Elect Evers' Agriculture, Energy and Natural Resources Policy Advisory Council, December 2018.

Dane County Climate Change Council Member, July 2017 to present.

U.S. DOE Brain Trust for the Advanced Research Projects Agency - Energy (ARPA-E)

2012-2013.

Eastern Interconnection States' Planning Council

- President, 2010-2011
- Executive Committee Member, 2010-2011.

Eastern Interconnection Planning Collaborative

Stakeholder Steering Committee Member, 2010-2011.

U.S. DOE, Electricity Advisory Council

Vice Chair, 2010-2011.

Organization of MISO States

- President, 2009
- Vice President, 2008
- Board Member, 2010.

MISO Stakeholder Task Force on Cost Allocation (RECB)

Chair, 2009-2010.

Member, Advisory Council of the Wisconsin Initiative on Climate Change Impacts, 2009 to 2011.

Testimony

FERC's Technical Conference on Environmental Regulations and Electric Reliability, Wholesale Electricity Markets, and Energy Infrastructure for the Central Region, Docket No. AD15-4-000, St. Louis, Missouri, March 2015.

Secretary Chu's Initiative to Modernize the Power Marketing Administration's Transmission Infrastructure, U.S. House of Representatives, Committee on Natural Resources, Oversight Hearing, September 2012.

DOE's Power Marketing Administrations, U.S. House of Representatives, Committee on Natural Resources, Oversight Hearing, April 2012.

The "American Energy Initiative" on electric transmission issues, U.S. House of Representatives, Committee on Energy and Commerce, Hearing, October 2011.

Western Area Power Administration's Transmission Infrastructure Program, U.S. House of Representatives, Committee of Natural Resources, Subcommittee on Water and Power, Legislative Hearing, September 2011.

Transmission Planning Processes under Order 890 in the Northeast, Federal Energy Regulatory Commission Technical Conference, Docket No. AD09-8-000, September 2009.

The Future of the Grid: Proposals for Reforming National Transmission Policy, U.S. House of Representatives, Committee on Energy and Commerce, Subcommittee on Energy and the Environment, June 2009.

Integrating Renewable Resources Into the Wholesale Transmission Grid, Federal Energy Regulatory Commission Technical Conference, Docket No. AD09-4-000, March 2009.

Energy Congestion Study Workshop, United States Department of Energy, Oklahoma City, June 2008.

Publications Related to Energy

Co-Author on behalf of the Organization of MISO States: *Utility Investments in Resilience of Electricity Systems*, Lawrence Berkeley National Laboratory's Future of Electric Utility Regulation, Report No. 11.

Co-Author: Preparing for the Inevitable: New Approach to Recovery from Catastrophic Losses of Grid Facilities, Public Utilities Fortnightly, August 2016.

Author: The Electric Grid 2030: How the EPA's Power Plant Rule Will Affect the U.S. Transmission Grid, September 2015.

Co-Author and Chair of Study Group: Harnessing Wisconsin's Energy Resources: An Initial Investigation into Great Lakes Wind Development, Wisconsin Public Service Commission, Docket No. 05-EI-144, November 2008.

Legal Ratings

Her Martindale Hubbell Rating is AV: "AV Peer Review Rating — shows that a lawyer has reached the height of professional excellence. He or she has usually practiced law for many years, and is recognized for the highest levels of skill and integrity."

Admissions

Top-secret security clearance with SCI access, U.S. Government, 2011-2013.

Wisconsin Bar, 1994.

U.S. District Court for the Western District of Wisconsin, 1994.

Professional Associations

Member, Wisconsin State Bar Association.

Speeches Related to Energy

State Regulator Perspectives on Utility Investments in Resilience, Lawrence Berkeley National Laboratory Webinar, April 2019.

Distributed Energy Resources, Organization of MISO States, Madison, WI, August 2017.

Issues in Regional Resource Planning, Wisconsin Public Utilities Institute, Madison, WI, March 2017.

Regulation of U.S. Electric Industry: Obvious Barriers, Energy Infrastructure Security Council (EISC), Pocantico, NY, November 2016.

Black Sky Conference, EISC, Harrisburg, Pennsylvania, June 2016.

Project Development: Promoting Bankability, Middle East and North Africa Renewable Energy Conference, Kuwait City, Kuwait, February 2016.

New Wires: What is Working and What is Not, Transmission in the Northeast Conference, Boston, MA, February 2016.

Regulatory Reforms: Reactions to New Technologies, Wisconsin Public Utilities Institute, Madison, WI, February 2015.

Electricity Planning of Yesteryear and Tomorrow, Wisconsin Energy Institute, Madison, WI, October 2014.

How National Trends will Influence Transmission Development, TransForum West, San Diego, CA, May 2014.

Safe and Reliable at a Reasonable Cost, Maui Conference on Electric Utilities, Maui, HI, March 2014.

The Potential Transformation of the Transmission Business Model, Transmission Summit 2014, Washington D.C., March 2014.

Generation, Transmission, Distribution: the Distinctions of Yesteryear, Wisconsin Federation of Cooperatives, Madison, WI, February 2014.

Capturing Economies of Large-Scale Renewables, Great Plains Clean Energy Transmission Summit, St. Paul, MN, October 2013.

Modernizing the Grid – Federal Plans, Programs and Initiatives, Transmission Summit West, San Diego, CA, September 2013.

Visualizing the Future: Public Utilities 2020, Financial Research Institute, Columbia, Missouri, September 2013.

The Utility of the Future: The Big Issues that Could Affect the Utility Business Model, Wisconsin Public Power Inc., Middleton, WI, September 2013.

Generation, Transmission, Distribution: the Distinctions of Yesteryear, Western Conference of Public Service Commissioners, Santa Fe, NM, June 2013.

MISO and FERC Order 1000, Wisconsin Public Utility Institute, Madison, WI, May 2013.

The U.S. Grid: Researchers' Roles in its Transformation, Power Systems Engineering Research Center (PSERC); Madison, WI, May 2013.

The Administration's Policies on Energy; Customers First! Coalition, Madison, WI, April 2013.

Decision-Makers for Solar Deployment; DOE's Sunshot Program, Washington D.C., March 2013.

What Matters on the Grid: Risk and Money, ARPA-E GENI Conference, Washington D.C., February 2013.

Breaking through the 'Grid'-Lock, ARPA-E Annual Summit, Washington D.C., February 2013.

Transmission: Institutional Barriers, TransForum East, Arlington, VA, December 2012.

Grid Modernization, Edison Electric Institute and the National Rural Electric Cooperative Association, Madison, WI, October 2012.

Transmission: Its Role in the New Economy, Midwest Governors Association, St. Paul, MN, October 2012.

A Smarter U.S. Electric Delivery System, Electric Power Research Institute (EPRI), Washington D.C., October 2012.

Federal Roles in Transmission Planning and Siting, Edison Electric Institute, Madison, WI, August 2012.

21st Century Electric Infrastructure, National Lieutenant Governors Association, Washington D.C., March 2012.

Visioning the 21st Century Electric Industry: Outcomes and Strategies, Energy Future Coalition, Washington D.C., March 2012.

Grid Modernization, University of Colorado Law School, Boulder, CO, March 2012.

Strategies and Outcomes for America, National Electricity Forum, Washington D.C., February 2012.

DOE's Federal Power Act § 202 Authorities, National Association for Regulatory Utility Commissioners (NARUC) and FERC Forum on Reliability and the Environment, Washington D.C., February 2012.

Transmission Issues and Activities, National Academy of Science's Board on Energy & Environmental Systems, Washington D.C., January 2012.

Rapid Response Team for Transmission, Western Governors Association, Palm Springs, CA, December 2011.

The Engines of Change, Grid Interop 2011, Phoenix, December 2011.

The Green Economy, Platts Global Energy Outlook, New York City, December 2011.

DOE Electricity Initiatives, NARUC, St. Louis, November 2011.

Transmission Grid...Lock, National Association for State Utility Consumer Advocates, St. Louis, November 2011.

How Markets for Electricity Will Evolve in the Future, Western Wind and Transmission Leadership Summit, Big Sky, MT, October 2011.

Federal Policy Initiatives, 2011 National Summit on Renewable Portfolio Standards, Washington D.C., October 2011.

Game Changers, California Independent System Operator, Sacramento, September 2011.

The Engines of Change, Solar Summit, Arizona State University, Phoenix, August 2011.

Transmission Technologies Workshop, NARUC, Denver, April 2011.

13th Annual Transmission Summit, Washington D.C. March 2011.

Large-Scale Wind & Solar Integration Summit, Phoenix, January 2011.

Eastern Interconnect States' Planning Council: Formation and Future, European Union and United States Regulators Roundtable, Berlin Germany, October 2010.

Challenges created by RTO Structure, Women in Power, Washington D.C., October 2010.

Eastern Transmission Interconnection: Planning and the RTO's, The Energy Daily Transmission Siting Summit, Washington D.C., October 2010.

Risk Analysis for Climate Change, Wisconsin Public Utilities Institute, Madison, WI, September 2010.

Electric Transmission Development: Integrating New Resources, American Public Power Association, Indianapolis September 2010.

Transmission Siting, Planning and Cost Allocation, Edison Electric Institute

Transmission Business School, Madison, WI, August 2010.

Eastern Interconnection States' Planning Council: Current Issues, National Association of Regulatory Commissioners, Sacramento, July 2010.

Electric Transmission Development in a Changing Energy World, National Conference of State Legislators, Transmission Policy Institute, Denver, May 2010.

Electric Transmission Issues: A Regulator's Perspective, American Wind Energy Association, Annual Convention, Dallas, May 2010.

Fundamental Changes in Generation and Transmission Planning, Wisconsin State Bar Annual Convention, Madison, WI, May 2010.

Transmission Planning, Siting and Cost Allocation, American Wind Energy Association, Denver, March 2010.

Building New Electricity Infrastructure: Balancing the Roles of Coordinated Planning and Market-Based Processes, National Electricity Forum, Washington D.C., February 2010.

Regional Transmission Planning: Current Issues, High Plains Regional Transmission Summit, Lawrence, KS, November 2009.

Climate Change Impacts in Wisconsin, Gaylord Nelson Institute for Environmental Studies, Madison, WI, November 2009.

The Energy Daily Transmission Siting Summit, Philadelphia, September 2009.

Connecticut Dept. of Public Utility Control v. FERC, National Regulatory Research Inc. Teleconference, July 2009.

The Great Lakes Potential for Off-Shore Wind Power, American Wind Energy Association, Windpower 09, Chicago, May 2009.

Transforming the Transmission Grid, 12th Annual Midwest Energy Conference, Midwest Energy Bar Association, Chicago, March 2009.

Strategic Long-Term Planning for Electric Utilities, NARUC, New Orleans, November 2008.

Supply & Demand Response to the Energy Challenge, Emerging Issues Policy Forum, Amelia Island, FL, September 2008.

Cost of Capital Game, Society of Utility Regulatory Financial Analysts Conference, Washington D.C., April 2008.

Energy Basics: Regulation Overview, Wisconsin Public Utility Institute, October 2006.

Energy Basics: Regulation Overview, Wisconsin Public Utility Institute, October 2005.

History of Utility Regulation, Wisconsin Public Utility Institute, October 2003.

Updated: November 2019.

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

IN THE MATTER OF PUBLIC SERVICE)		
COMPANY OF NEW MEXICO'S)		
ABANDONMENT OF SAN JUAN)	Case No. 19-0001	18-UT
GENERATING STATION UNITS 1 AND 4			

AFFIDAVIT

STATE OF NORTH CAROLINA) ss COUNTY OF TRANSYLVANIA)

LAUREN AZAR, Azar Law, LLC, upon being duly sworn according to law, under oath, deposes and states: I have read the foregoing Rebuttal Testimony of Lauren Azar and it is true and correct based on my personal knowledge and belief.

SIGNED this 13 day of N	November, 2019.	
	and the second s	
LAUREN AZAR		
SUBSCRIBED AND SWORM	to before me this 13	_ day of November, 2019.
NOTARY PUBLIC IN AND FOR THE STATE OF NORTH CAROLINA		
N. G	NOTARL STEEL	
My Commission Expires:	My Comm. Espires	
12:19-19	12.19.19 OUBLIG	
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