BEFORE THE NEW YORK STATE PUBLIC SERVICE COMMISSION

Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Consolidated Edison Company of New York, Inc. for Electric Service	<i>'</i>
Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Consolidated Edison Company of New York, Inc. for Gas Service	,

DIRECT TESTIMONY OF PROFESSOR MICHAEL B. GERRARD ON BEHALF OF PACE ENERGY AND CLIMATE CENTER

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I. Identification and Qualifications

- 2 Q. Please state your name and business address.
- 3 A. My name is Michael Gerrard. My business address is Sabin Center for Climate Change
- Law at Columbia Law School (Sabin Center), 435 West 116th Street, NY, NY, 10027.
- 5 Q. On whose behalf are you testifying?
- 6 A. I am testifying on behalf of the Pace Energy and Climate Center (Pace).
- 7 Q. By whom are you employed and in what capacity?
- 8 A. I am employed by Columbia University as a Professor of Law and as the Faculty Director
- 9 of the Earth Institute. I am also Senior Counsel at the law firm Arnold & Porter.
- 10 Q. Please summarize your qualifications.
- 11 Α. I teach courses on environmental law, climate change law, and energy regulation, and am 12 the faculty director of the Sabin Center for Climate Change Law. I am also Chair of the Faculty of Columbia University's Earth Institute. From 1979 through 2008 I practiced 13 14 environmental law in New York, most recently as partner in charge of the New York 15 office of Arnold & Porter LLP. Upon joining the Columbia law faculty in 2009, I became 16 Senior Counsel to the firm. My practice involved trying numerous cases and arguing 17 many appeals in federal and state courts and administrative tribunals, handling the 18 environmental aspects of numerous transactions and development projects, and providing 19 regulatory compliance advice to a wide variety of clients in the private and public sectors. I am also a prolific writer in environmental law and climate change, and have twice 20 21 received the Association of American Publishers' Best Law Book award for works on 22 environmental law and brownfields. I have written or edited eleven books, including 23 Global Climate Change and U.S. Law, the leading work in its field (second edition 24 published in 2014, co-edited with Jody Freeman) and the twelve-volume Environmental

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1		Law Practice Guide. Among my other books are The Law of Clean Energy: Efficiency
2		and Renewables (2011), The Law of Adaptation to Climate Change: U.S. and
3		International Aspects (2012) and Threatened Island Nations: Legal Implications of Rising
4		Seas and a Changing Climate (2013). Since 1986 I have been an environmental law
5		columnist for the New York Law Journal. My resume is provided as Exhibit MG-1.
6	Q.	Have you previously testified before the New York State Public Service Commission
7		("the Commission")?
8	A.	Yes.
9		II. Introduction and Summary
10	Q.	What is the purpose of your testimony in this proceeding?
11	A.	I am testifying to encourage the Commission to require the Company to perform, and to
12		authorize full recovery of the costs of completing Consolidated Edison of New York,
13		Inc.'s ("the Company" or "ConEd") Climate Change Vulnerability Study, recommended
14		by the Storm Hardening and Resiliency Collaborative in its December 2014 report and
15		endorsed by the Commission. See Case 13-E-0030, Order Approving Electric, Gas and
16		Steam Rate Plans in Accord with Joint Proposal, at 71 (Feb. 21, 2014).
17	Q.	Please summarize your testimony.
18	A.	As the Commission has recognized, electric utilities should anticipate as best they can the
19		changes to historic patterns of coastal storms, heat, and wind that are expected to attend
20		global climate change. The Climate Change Vulnerability Study is an important tool with
21		which ConEd can better anticipate such changes. In spite of this, the Commission has

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deferred its approval of the costs of performing the Study from the prior rate case to this

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one case, and has instructed ConEd to seek other funding sources. This wrongly undermines progress toward completing the Study.

III. Value of the Climate Change Vulnerability Study

- Q. Has there yet been a comprehensive study of ConEd's vulnerabilities to the impacts of climate change?
- 6 No. Although federal, state, and city agencies, and others, have examined some of the A. 7 impacts of sea level rise and other effects of climate change, no one has vet conducted a 8 comprehensive examination of the ways in which the electricity infrastructure maintained by ConEd is vulnerable to climate change impacts. See Storm Hardening and Resiliency 9 10 Collaborative Phase III Report, at 119–20 (Sept. 2015). This gap helps explain why the 11 Commission has itself acknowledged the Study's importance and urgency. See Case 13-12 E-0030, Order Adopting Storm Hardening and Resiliency Collaborative Phase Two 13 Report Subject to Modifications, at 22 (Feb. 5, 2015) ("While the Commission 14 recognizes that the science of climate change is developing and the Climate Change 15 Vulnerability Study is a substantial undertaking for the Company, it must be available for 16 the Commission's use by March 2019 (five years after the issuance of the 2014 Rate 17 Order).").

Q. What benefits will result from this Study?

A. This Study will enable ConEd to better comply with the Commission's instruction in its 2014 Rate Order, "We expect the utilities to consult the most current data to evaluate the climate impacts anticipated in their regions over the next years and decades, and to integrate these considerations into their system planning and construction forecasts and budgets." Case 13-E-0030, Order Approving Electric, Gas and Steam Rate Plans in

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Accord with Joint Proposal, at 72 (Feb. 21, 2014). In addition, by highlighting risks and costs that ConEd should consider and work to avoid through its near- and long-term planning, design, and procurement decisions, the Study will yield two chief benefits. First, it will provide information about risks and costs that might otherwise remain hidden until they are revealed in the form of operational inefficiencies, equipment failures, or other adverse results of a mismatch between the circumstances ConEd has planned for and the circumstances it actually faces. And second, it will thereby help ensure system reliability even as the climate changes.

Q. Are the costs of the Study reasonable and likely to be outweighed by its benefits?

In short, yes. The bids ConEd has received to complete the Study range from \$1.4 million to \$4 million; while this range is not definitive of what ConEd will ultimately pay, it illustrates the likely approximate cost of Study completion. Such a price is reasonable given the scale and complexity of the task. Furthermore, the Study's benefits can be expected to at least justify that cost and at most to substantially outweigh it. Consider that as ConEd has begun implementing its plans for reconfiguring and installing submersible transformers and isolation switches on coastal network segments, it has discovered various reasons to revise those cost estimates—in some instances up, in others down—by tens of millions of dollars. *See* Storm Hardening and Resiliency Collaborative Phase III Report, at 13–20 (describing plans and tabulating cost updates). The Climate Change Vulnerability Study can be expected to reveal factors and considerations that inform design changes with cost implications of at least this scale—that is, cost implications an order of magnitude greater than the cost of the study itself. The Study can therefore be expected to yield benefits that outweigh its costs.

- 1 Q. Does this conclude your pre-filed direct testimony?
- 2 **A.** Yes.