

THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC UTILITIES

BAY STATE GAS COMPANY D/B/A COLUMBIA GAS OF)
MASSACHUSETTS, THE BERKSHIRE GAS COMPANY,)
BLACKSTONE GAS COMPANY, BOSTON GAS COMPANY AND)
COLONIAL GAS COMPANY EACH D/B/A NATIONAL GRID,)
FITCHBURG GAS AND ELECTRIC LIGHT COMPANY D/B/A) D.P.U. 12-100
UNITIL (GAS), NSTAR GAS COMPANY, NEW ENGLAND GAS) through
COMPANY, CAPE LIGHT COMPACT, FITCHBURG GAS AND) D.P.U. 12-111
ELECTRIC LIGHT COMPANY D/B/A UNITIL (ELECTRIC),)
MASSACHUSETTS ELECTRIC COMPANY AND NANTUCKET)
ELECTRIC COMPANY EACH D/B/A NATIONAL GRID, NSTAR)
ELECTRIC COMPANY, WESTERN MASSACHUSETTS)
ELECTRIC COMPANY)
)

AFFIDAVIT OF JAMES RICHARD HORNBY

James Richard Hornby does hereby depose and say as follows:

1. I am James Richard Hornby. My business address is Synapse Energy Economics, Inc., 485 Massachusetts Avenue, Cambridge, Massachusetts 02139.

2. I am a Senior Consultant at Synapse Energy Economics and have worked in the energy industry since 1976, as a regulatory consultant, senior civil servant, and project engineer. In my current capacity, I focus on areas of planning, market structure, ratemaking and contracting in the electricity and natural gas industries. My testimony in this proceeding is intended to support, as a witness common to the Program Administrators, the Avoided Energy Supply Costs in New England: 2011 Study (“AESC Study”), as conducted by Synapse Energy Economics, Inc. which supports the cost effectiveness of the 2013-2015 Massachusetts Joint Statewide Three-Year Energy Efficiency Plan (“Three Year Plan”).

3. I have a Bachelor of Industrial Engineering degree from Dalhousie University and a Master of Science in Technology and Policy degree from the Massachusetts Institute of Technology. I joined Synapse in my current capacity in 2006. Prior to joining Synapse, I was a Principal with CRA International where I provided expert testimony and litigation support in several energy contract price arbitration proceedings, as well as in ratemaking proceedings in Ontario, New York, Nova Scotia, and New Jersey. I also managed a major productivity improvement and planning project for two electric distribution companies within the Abu Dhabi Water and Electricity Authority. From 1986 to 1998, I worked as a regulatory consultant with Tellus Institute, where I served in several capacities, most recently as the Director of their energy group, where I presented testimony on rates for unbundled retail services in restructured retail markets and analyzed the options for purchasing electricity and gas in those markets. Prior to

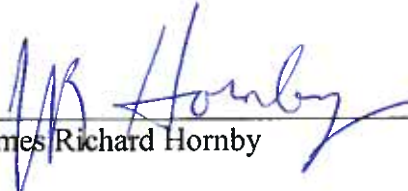
1986, I held several positions within the Nova Scotia Department of Mines and Energy, most recently as the Assistant Deputy Minister of Energy, where I directed the preparation of provincial energy plans and analyses of policies to improve energy efficiency and to develop Nova Scotia's natural gas, coal and renewable energy resources.

4. As a Senior Consultant for Synapse, I served as the lead consultant for the review and determination of the marginal energy supply costs that will be avoided due to reductions in the use of electricity, natural gas, and other fuels resulting from energy efficiency programs offered to customers throughout New England. These projections were developed to support decisions during 2011 and 2012 regarding the design, evaluation and approval of energy efficiency programs to be implemented in those years and in 2013-2015 in conjunction with the mandates of the Green Communities Act. The results of this review are contained in the AESC Study and referenced in applicable exhibits (generally referred to as the AESC Study) in the Three-Year Plan of the Program Administrators.

5. Since 1986, I have presented oral testimony on electric and natural gas planning, pricing, and market restructuring issues for gas producers, retail energy service providers, electric and gas utilities, regulators and consumer advocates in proceedings before state regulators in Arkansas, Arizona, California, Colorado, the District of Columbia, Florida, Maine, Maryland, Michigan, Minnesota, New Hampshire, Massachusetts, Hawaii, Illinois, New York, New Jersey, Pennsylvania, North Carolina, South Carolina, Oklahoma, Rhode Island, Montana, Utah, and West Virginia. I have also testified in a proceeding at the Federal Energy Regulatory Commission and before arbitration panels in Nova Scotia and Ontario. I have presented papers on these topics at conferences organized by NARUC, NASUCA, the DOE, and ACEEE.

6. I certify that the information contained in the AESC Study, which is an appendix to the Three-Year Plan, was prepared by me or under my supervision and is true and accurate to the best of my knowledge and belief.

Signed under the pains and penalties of perjury as of this 29th day of October, 2012.


James Richard Hornby