



Sandia National Laboratories

Operated for the U.S. Department of Energy by
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Ross Guttromson
Manager, Electric Power Systems Research

May 18, 2015

The Honorable Dawn Zimmer
Mayor of Hoboken
94 Washington Street
Hoboken, NJ 07030

Re: Commitment to the City of Hoboken Washington Street Revitalization Project

Dear Mayor Zimmer:

On behalf of Sandia National Laboratories (SNL), I am pleased to provide our full support to the City of Hoboken's Washington Street Revitalization Project. We are excited to support this important venture to rehabilitate and resurface Washington Street through the U.S. Department of Transportation's (DOT) Transportation Investment Generating Economic Recovery (TIGER) grant program.

SNL is a U.S. Department of Energy (DOE) laboratory with extensive research in the areas of national security, reliability, and energy. We were placed in service during WWII as part of the Manhattan project and have been serving the nation's interest in science and engineering research ever since, with more than \$2B in annual expenditures.

After a devastating 2012 hurricane season, the DOE sponsored SNL to enhance Hoboken's critical infrastructure through the application of their Energy Surety Design Methodology (ESDM). This methodology pursues infrastructure and operational enhancements to electric systems which enhance resilience. SNL provided a preliminary design summary describing a city-wide electrical infrastructure design that uses microgrids and other infrastructure to ensure the city retains functionality should another severe storm occur in the future. The designs ensure that up to 55 critical buildings will retain power during blackout or flooded conditions and include analysis for microgrid architectures, performance parameters, system control, renewable energy integration, and financial opportunities.

Sandia is very excited to be a part of this proposal and strongly endorses the value of the project.

If you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ross Guttromson', written over a horizontal line.

Ross Guttromson
Manager, Electric Power Systems Research