A quarterly publication of the Boston Chapter of the National Electrical Contractors Association

Wishing our Clients, Construction Industry Partners, and Legislators a Very Bright Holiday Season and 2015!

ECA Boston looks forward to continuing to build an even brighter, energy-efficient future!

INDUSTRY NEWS

Absolute Renewable Energy LLC joins NECA Boston

W EST NEWTON, MA – NECA Boston Chapter welcomes Absolute Renewable Energy, LLC of Nashua, NH. A full-service electrical contractor, licensed in both MA and NH, Absolute Renewable is headed by principals Jonathan Wienslaw and Kathryn Wienslaw. The IBEW Local 103 signatory contractor provides electrical services for commercial, institutional, industrial, and residential projects with a focus on solar design, development, and installation.

IBEW Local 103 Business Manager John Dumas Guest Speaker at NECA Boston November Meeting

W EST NEWTON, MA – On Nov. 4th, recently elected IBEW Local 103 Business Manager John Dumas was the guest speaker at the NECA Boston Chapter Meeting at the Seaport Hotel. Dumas discussed the importance of building on a great NECA - IBEW working relationship, “...one in which IBEW members and our NECA contractor partners both excel.” He focused on performance, professionalism, efficiency and safety, saying: “Through our partnership, IBEW and NECA will continue to provide the highest quality electrical and telecommunications services for clients throughout Greater Boston, with on-time, on-budget installations provided by the most skilled and safest workforce in the region.” Dumas spoke of the world-class NECA - IBEW sponsored JATC Greater Boston training program, and the state-of-the-art newly expanded training facility at Local 103’s Dorchester campus as being keys to the future of the industry. The event was attended by more than 80 NECA contractors.

POWERPOINTS

A Message from the Executive Manager

Building on Mayor Menino’s Legacy to Boston

The holiday season is a fitting time to pay tribute to the late Mayor Thomas M. Menino for his decades of leadership, accomplishments and dedication in building Boston into the vibrant city it is in 2014. It is also an ideal time to look forward to 2015 and beyond, as Mayor Martin Walsh and his administration solidify plans to build on the many key projects that are already in the pipeline, and lay groundwork for many others that are under review by the City and the Boston Redevelopment Authority (BRA).

NECA Boston and the City’s entire construction industry have great reason to pay homage to Mayor Menino. His vision and tireless efforts for rebuilding all parts of our city are well-documented. That vision and dedication have ensured dynamic development projects throughout the city would be built.

The many projects that have redefined and rejuvenated our city stand as testimony — spanning from the Zakim Bridge and the North End to the Rose Kennedy Greenway and the Seaport and Innovation District, from the Theater District to Downtown Crossing, and from the Back Bay to Fenway. The South End, Jamaica Plain, Hyde Park, Dorchester, Roxbury, South Boston and East Boston, also have all seen dynamic new residential, mixed-use, and commercial developments that are making all neighborhoods in Boston more livable. These energy-efficient buildings, many of which have renewable energy features, including solar power, have revitalized the union construction industry, translating to more work and opportunity for our adept NECA contractors and the highly skilled IBEW electricians and technicians whom we employ to construct them. NECA Boston is proud to be an integral part of the construction teams that are reshaping Boston’s skyline, thanks to our common interests in having an equal playing field for all qualified contractors and our solid working relationships with Mayor Menino and Mayor Walsh.

The bottom line is that the projects that have rejuvenated Boston and which were made possible by Mayor Menino and the BRA, and their leadership and commitment, are reshaping Boston’s skyline, thanks to our common interests in having an equal playing field for all qualified contractors and our solid working relationships with Mayor Menino and Mayor Walsh. NECA Boston and the City’s entire construction industry have great reason to pay homage to Mayor Menino. His vision and tireless efforts for rebuilding all parts of our city are well-documented. That vision and dedication have ensured dynamic development projects throughout the city would be built.

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E.G. Sawyer Co. completes $13.5M Electrical Construction of UMass Boston Integrated Sciences Complex

Fellow NECA Members also on Project Team: A. Murphy – Control Systems and LAN-TEL Communications – Tel/Data and Security; Architect: Goody Clancy, Boston; GC/CM: Walsh Brothers; EE: Vanderweil Engineers, Boston

BOSTON, MA – E.G. Sawyer Company, Inc., based in Weymouth, MA, has completed electrical construction of the University of Massachusetts Boston's new signature science building, the five-story, 220,000 square-foot Integrated Sciences Complex (ISC).

The Integrated Sciences Complex is the first new facility in UMass Boston's 25-year campus Master Plan. Designed by Boston-based architectural firm, Goody Clancy, the ISC is a state-of-the-art research and educational lab building that includes a wide range of teaching laboratory space for biology, chemistry, environmental sciences, physics, and psychology. It houses undergraduate teaching biology labs; an interdisciplinary sandbox teaching lab; an infant cognition lab; two research centers – the Center for Personalized Cancer Therapy and the Development Sciences Research Center; exhibition space; conference rooms and seminar classrooms; and, food service and student/faculty lounge space. The ISC also features an animal research facility, a public lobby and café.

E.G. Sawyer’s comprehensive shell and core electrical scope has entailed primary and emergency power installations, interior and exterior lighting and lighting control systems, special electrical installations for laboratories’ fit-up, fire alarm system, and A/V systems.

Special Lab Installations
Special electrical installations to meet lab fit-up requirements included installation of gas panels with shut-off for EPO and fire alarm. Dedicated 120/208V electrical panels are installed for each lab at the facility. Labs are equipped with optional standby electrical receptacles and with Starline bus overhead carriers with metering.

State-of-the-art Energy Efficient Lighting
Energy efficient lighting is installed throughout the Integrated Sciences Complex with features that include light harvesting, programmable dimming systems and occupancy sensors. Specialty pendant fixtures provide optimal lighting in all lab settings. The facility’s Dali addressable lighting control system enables advanced lighting control of the building’s fluorescent fixtures. In the ISC’s 5-story glass atrium, the contemporary structure's architectural centerpiece, custom LED pendants featuring integrated RGB strip lighting suspend

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THOMAS M. MENINO 1942-2014

“I will be very proud if I have changed our city in some ways that last.”
from the atrium's metal-pan ceilings.

Fire Alarm System features Custom Exhaust System

The facility’s Simplex fire alarm system features a custom exhaust system, which is operated via a space-age panel. The building’s special life safety systems include 17 operable windows and 13 operable doors for make-up air that is tied to the atrium’s special exhaust system. Fire alarm installations include atrium beam smoke detectors on the fifth floor. A Comtronics bidirectional antenna allows firefighter communication with the Boston Fire Department from anywhere in the building.

A/V Installations

Advanced A/V installations include power projection screens, projectors and floor boxes for podiums in exhibition areas and conference rooms. Power window shades optimize the facility’s A/V requirements and capabilities.

E.G. Sawyer’s PM Rick Goulet, GF John Cullen, and Foremen Trisha Cox, Paul Williams, Joe Coronity, and Doug Woodford managed the project with an electrical crew comprised of 30 IBEW Local 103 electricians at peak construction. The NECA contractor commenced construction in May 2012 and the project’s scheduled completion was met in October. The Integrated Sciences Complex is designed for and expected to achieve LEED Silver certification.

This summer, E.G. Sawyer Company received NECA’s 50-Year Member Award. The company is also celebrating its 150th year and is considered the oldest continuously operating electrical contractor in the nation.

LAN-TEL Communications Provides UMass ISC’s Telecom and Security Installations

BOSTON, MA – LAN-TEL Communications, based in Norwood, MA, provided telecommunications system and security system installations for the UMass Integrated Sciences Complex, as well as the building’s network integration. To meet the ISC’s dynamic tel/data requirements, LAN-TEL’s team of skilled technicians installed approximately 1.2 million feet of Category 6A cable for the facility’s fiber/copper backbone. The building’s security system includes card access, student dorm access systems, and video management systems. LAN-TEL PM David Stevenson and GF Sean Callahan supervised a field crew of 12 IBEW technicians in the tel/data and security project, which also was completed in October.

A. Murphy Meeting ISC’s Automation Control Systems Requirements

BOSTON, MA – Fellow NECA contractor, A. Murphy, Inc., of Hanover, MA, provided electrical installations associated with the Integrated Sciences Complex building’s sophisticated automation control systems.

The ISC’s chilled water pumps and piping required specialized automation control.

POWERPOINTS Building on Mayor Menino’s Legacy to Boston

Commitment to building a better Boston, have been the key factor in Boston’s economic recovery, especially for the construction industry. We are confident, based on his first year in office and his years of personal dedication to and involvement in the industry, that Mayor Walsh has much the same commitment as Mayor Menino in making Boston a better place to live and work.

In wishing our construction industry partners, building owners and developers throughout the region, and our legislative leaders all the best during the Holiday season and in 2015, NECA Boston looks forward to working with you all in building an even brighter, energy-efficient future for Boston.
CAMBRIDGE, MA – J&M Brown Company, Inc., based in Jamaica Plain, MA, is underway with comprehensive electrical construction of Northpoint Twenty/20, the new 20-story luxury high-rise apartment tower, at 20 Child Street in Cambridge. The NECA Boston contractor is handling core and shell electrical construction at the 400,000 square-foot building, which entails installation of the structure’s primary and emergency power, lighting and lighting control, fire alarm and security systems.

The project scope also includes J&M Brown’s electrical fit-out of Northpoint’s 355 residential units, fitness center, café, 9,000 square feet of office space, and five retail locations at street level.

J&M Brown is teaming with CBT Architects of Boston and general contractor John Moriarty & Associates of Winchester. Designed to achieve LEED Silver certification, Northpoint Twenty/20 is scheduled for completion in early 2015.

CAMBRIDGE, MA – J.M. Electrical Company, Inc., of Lynnfield, MA, has begun project operations at 75|125 Binney Street, a 386,000 square foot multi-building life science complex in Cambridge's Kendall Square.

J.M. Electrical’s crew of IBEW technicians will install a building automation system to control the heating, cooling, and ventilation in both six-story buildings, with over half of the space being developed for the building’s primary tenant, Ariad Pharmaceuticals, a global oncology company.

Gilbane, Inc., of Providence, RI, is the general contractor and Payette, of Boston, is the project architect. Alexandria Real Estate Equities is the owner.

In order to maintain an environment that meets clinical, research and regulatory requirements, J.M. Electrical will equip both buildings with a central chiller plant, eight air handling units, and an electrical control system, which will all work together to maintain precise temperature and humidity levels while simultaneously moving large amounts of air for the laboratories.

These advanced systems are crucial to maintaining the optimal environment for the sensitive nature of the work, and support an ongoing effort to reduce energy demand and consumption in buildings while guaranteeing reliable energy delivery.

The firm also is assisting in the building information modeling (BIM) process that will involve the generation and management of digital representations of the work to be completed.

This project is scheduled to be completed by March 2015.

MARTIN J. WALSH, MAYOR OF BOSTON, 2014

Mayor Walsh’s recently released “Housing a Changing City: Boston 2030” housing plan is expected to create $21 billion in new development and an estimated 51,000 construction jobs through the year 2030.
Kristen Gowin appointed Assistant Manager of NECA Boston Chapter

WEST NEWTON, MA — In October, the Boston Chapter of NECA proudly welcomed Kristen Gowin as the Chapter’s new Assistant Manager. Kristen joins NECA Boston from the national office of NECA, where she served as the Director of Government Affairs, promoting the Association’s position as a leader in the electrical construction industry in the legislative, regulatory, and political areas.

“Kristen brings us a comprehensive understanding of the many resources that the Association has to offer, including advocacy, education, research, standards development, and labor relations. She has been representing NECAs interests and advancing NECAs legislative and political objectives that effectively promote the Association and she will be a great asset for the Boston Chapter,” said Glenn Kingsbury, NECA Boston Chapter Executive Manager.

Specifically, Kristen has focused much of her time and expertise building and maintaining relationships to advance multiemployer pension reform, improvements to the Affordable Care Act and a renewed effort addressing comprehensive tax reform. She is also an expert in several key issues including misclassification of independent contractors, project labor agreements, and prevailing wages.

Kristen said, “I am excited to be working for the members of the NECA Boston Chapter as Assistant Manager. The Chapter is a leader in the industry and I look forward to helping further evolve its already prestigious reputation and promoting the finest electrical contractors in the Greater Boston area and Eastern New England.”

Prior to joining NECA, Kristen worked at Mercury Public Affairs as a Legislative Assistant. During the 2008 election cycle, she moved to Washington, D.C. to launch her professional career at Public Opinion Strategies, a political polling firm, where she worked on dozens of winning campaigns from New Mexico, Florida and across the Northeast.

Kristen holds a BA in political science and public relations from Quinnipiac University in Connecticut. A native of Norwood, Massachusetts, Kristen returns to the Boston area with her husband Brian and their son Thatcher.
SAFESITES

Electrical Industry Safety News

2015 Edition of NFPA 70E®
Standard for Electrical Safety in the Workplace and Handbook Available;
Significant Changes in New Standard

NFPA 70E compliance saves lives, reduces liability, and helps avoid unexpected downtime and revenue loss. Now, the 2015 Standard takes another big step in changing the way America works.

Quincy, MA – The 2015 edition of NFPA 70E Standard for Electrical Safety in the Workplace and the 2015 NFPA 70E Handbook are published and were made available on October 10, 2014. NFPA 70E provides requirements for safe work practices to protect personnel by reducing exposure to major electrical hazards. At the heart of the safety standard is the safeguarding of employees from hazards associated with electrical energy during such activities as the installation, inspection, operation, maintenance and demolition of electric conductors, electric equipment, signaling and communications conductors and equipment, and raceways.

The 2015 edition of NFPA 70E responds to the latest information about the effects of arc flash, arc blast, and direct current (dc) hazards, and recent developments in electrical design and Personal Protective Equipment (PPE). Key changes throughout the Standard replace the phrase “hazard analysis” with “risk assessment” to enable a shift in awareness about the potential for failure. Revisions also enhance usability, such as the division of requirements in former 110.4. (C)(2) into new sections separating construction and maintenance work from outdoor work. Also, a new subsection in 130.2 (A)(4) provides requirements where normal operation of electric equipment is permitted.

The 2015 NFPA 70E Handbook explains how requirements save lives by ensuring an electrically safe working area. It’s the only resource with the full 2015 NFPA 70E text plus exclusive commentary, printed in blue, that clarifies requirements and their intent, breaks down tasks, and addresses different equipment and scenarios. More than 150 full-color photos, charts, and illustrations are invaluable on the job and for worker training. Summary of Changes at the beginning of each Article, highlight revisions in the 2015 edition. Supplements include a list of National Electrical Code® (NEC®) requirements that directly impact the implementation of safety-related work practices, as well as extracts from the 2013 NFPA 70B: Recommended Practice for Electrical Equipment Maintenance.

To order the 2015 NFPA 70E and Handbook, visit NFPA.org or call 800-344-3555, 8:30am to 5pm, Monday through Friday.

INSTALLATIONS

Tansey Electric, Inc. Completes Tenant Fit-Up of New England’s First Sub Zero Ice Cream Stores in Nashua, NH

Nashua, NH – Tansey Electric, Inc., a NECA Boston Chapter / New Hampshire Division contractor, based in Manchester, NH, has completed the electrical fit-up of two Sub Zero Ice Cream stores in Nashua. Tansey Electric developed and installed the custom lighting package for both stores, completing installations in early September on a fast-track, two-month schedule. Tansey Electric president, Albert Tansey, is the Director of New Hampshire’s Veteran Business Owners’ Association and he performed the work for Sub Zero franchisee/owner, Mark McCabe, also a veteran and member of the Association and his wife, Rita McCabe.

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Albert Tansey, a third generation electrician, served as a track vehicle mechanic in the U.S. Army and, later, as an electronic warfare technician in the U.S. Navy, prior to becoming a union electrician and starting Tansey Electric in 2012. Albert Tansey spoke of his “strong commitment and focus on providing opportunities for veterans reentering civilian life and the civilian work place.” Congratulations on two successful years as a NECA contractor, Albert, and many thanks for your service and commitment to those who serve the United States! And, for your unwavering commitment to excellence in electrical construction. ■