



Metro Codes

E—News For Professionals

Metropolitan Government of Nashville and Davidson County

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Mark Lanus, Business Development Division Leader with Stansell Electric explains the details of the solar array installation to James Lawrence, an Electrical Inspector with the Codes Department.

Stansell Electric Installs Largest Solar Array in Middle Tennessee

Company installs 259,000 Kilowatt solar array



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In May of 2010, Stansell Electric Company, a third generation, family owned Nashville business, received flood damage to their buildings, equipment and materials estimated at over three million dollars. The company immediately began repair to the damaged facilities and replacement of equipment and vehicles. Despite the flood devastation, Stansell Electric provided critical support to the businesses around them throughout their recovery. Once they and their neighbors were back in business, Stansell Electric began preparation work for what is currently the largest solar panel project in middle Tennessee.



The rooftop array consists of 832 polycrystalline panels arranged in 32 parallel rows. The array is capable of generating enough energy to power approximately 50 average sized homes.

This million dollar installation is expected to produce approximately 259,000 Kilowatt hours of power in the first year of use and will continue to produce power at comparable levels for the next 25 to 30 years. The solar array consist of 832 polycrystalline panels arranged in 32 parallel rows of 26 panels each. Panels are mounted on an east-to-west sloped roof oriented to the south on fixed mounts at a 20 degree angle. The array will produce enough clean, renewable energy to power approximately 50 average sized homes. The investment is expected to pay for itself in less than seven years.

Stansell Electric considered a number of factors when first evaluating the project. Among those were that the project: (i) made environmental sense; (ii) helps the company and ultimately the

nation to become energy independent; (iii) helps the community in that new jobs will be created as the company expands its expertise in solar related projects and (iv) makes financial sense with the tax incentives now available for these type projects. David Stansell, Stansell Electric's President, stated "once we understood the business proposition, the decision for us to pursue the project was obvious. The more important question was how fast we could construct it."

This project was made possible in part by a solar installation grant from the Tennessee Solar Institute. The Tennessee Solar Institute is part of the Volunteer State Solar Initiative, a comprehensive solar energy and economic development program that was established using \$62.5 million in American Recovery and Reinvestment Act of 2009 funding received by the Tennessee Department of Economic and Community Development.



Mark Lanus, Business Development Division Leader with Stansell Electric explains the details of the solar array installation to James Lawrence, an Electrical Inspector with the Codes Department.

Founded in 1940, Stansell Electric is a diversified electrical contractor providing electrical, data communications and security services to a range of commercial, industrial and government customers. The company specializes in green, energy compliant services and projects.

To receive more information about the project or about solar installations, please contact Mark Lanus or David Phillips at Stansell Electric at (615) 329-4944.



Music City Center Update

The latest fact of the week taken from the Music city Center Update:

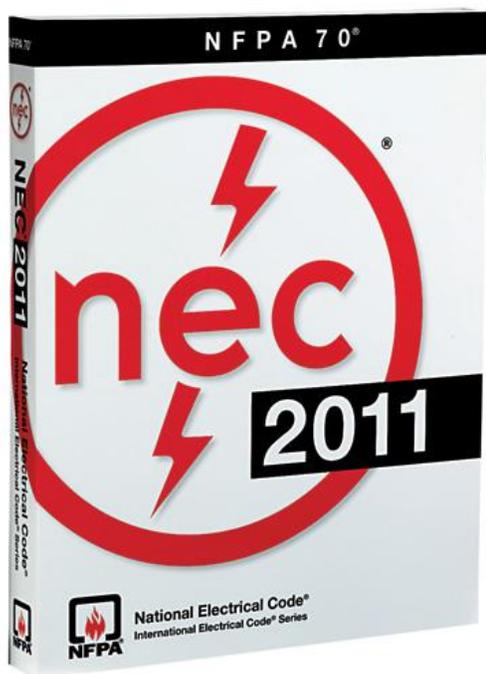
- The final two pours of the 5th floor exhibit hall in Area B will take place, as will the final concrete pour of the third floor, on the south side of the site in Area B takes place.
- Foundations and retaining walls continue at the far north, west, and south ends of Area C by 8th Avenue.
- Minor trench blasting will occur around 6:30 a.m. Tuesday, Wednesday, and Thursday for storm water lines on the job site.
- Members of our project and construction management staffs went to Miami for curtainwall testing (photos at right) As a result of the tests, minor modifications are being made to the structural design, fasteners, and sealant in the curtainwall design package.



Photo provided by: Nashville Music City Center

No Surprises!

Metro Codes to Propose Adoption of the 2011 National Electrical Code



State law requires that Nashville adopts an edition of the National Electrical Code (NEC) which is current within 7 years of the most current published edition. Metro Nashville currently uses the 2005 edition of the NEC as our adopted electrical code. Next month, Metro Codes will propose an ordinance to the Metro Council to update the Metro Electrical Code and con-

tinue in compliance with the State requirement by adopting the most current published edition of the NEC, the 2011 Edition.

As we have moved toward this adoption, we have been going through a process we call "Change Management". This process was developed as a method to inform and receive feedback from those affected by this change. We announced the proposed adoption of the 2011 NEC in this newsletter, in February of this year. We will be sending an announcement to all who are on our email lists, we have posted the proposed ordinance on our website www.nashville.gov/codes we will speak about it at trade organizations, and in general try to put the word out that change is coming so everyone will know about the change ahead of time and can plan accordingly.

We want to get feedback about the proposed change. Your comments and suggestions about the proposed change may be sent electronically to wade.hill@nashville.gov or by hard copy to: Wade Hill, Department of Codes and Building Safety, P.O. Box 196300, Nashville, TN 37219-6300.

The 2011 NEC will become effective upon passage by the Metro Council and signing by the Mayor. There will be a transition period attached to the effective date of the ordinance. Permits issued before the effective date of the ordinance will be inspected using the 2005 NEC. Projects which have an active application and plans submitted prior to the effective date of the ordinance will be reviewed and inspected under the 2005 NEC. Projects submitted within 90 days of the effective date of the ordinance may be reviewed and inspected under the 2005 or the 2011; this must be requested at time of plan submittal.

The 2011 NEC addresses several topics of current interest. There are chapters covering Solar Photovoltaic Systems, Fuel Cell Systems, Electric Vehicle Charging Systems, and Small Wind Systems. There are also some significant changes from the currently adopted 2005 NEC. Several websites are available which elaborate on many of the changes made since the 2005 Edition. Here are links to two excellent summaries of the significant changes, hosted by the International Association of Electrical Inspectors (IAEI):

<http://www.iaei.org/magazine/?p=4488>

<http://www.iaei.org/magazine/?p=4454>

There are many other summaries available by an on-line, search for: "Significant Changes in 2011 NEC".

Since publishing our February newsletter announcing the proposed adoption of the 2011 NEC we have received input requesting that we amend the requirements for Section 210.12 Arc-Fault Interrupter Protection in a manner similar to the amendment adopted by the State of Tennessee. After evaluation of the subject we are proposing to adopt similar language to the State ordinance. The revision removes the requirement for Arc-Fault Interrupter Protection from rooms other than bedrooms. Below is the proposed language for NEC Section 210.12.

210.12 Arc-Fault Circuit-Interrupter Protection.

(A) Dwelling Units.

All 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in bedrooms shall be protected by a listed arc-fault circuit interrupter, combination-type, installed to provide protection of the branch circuit.

Informational Note No. 1: For information on types of arc-fault circuit interrupters, see UL 1699-1999, Standard for Arc-Fault Circuit Interrupters.

Informational Note No. 2: See 11.6.3(5) of NFPA 72-2010, National Fire Alarm and Signaling Code, for information related to secondary power supply requirements for smoke alarms installed in dwelling units.

Informational Note No. 3: See 760.41(B) and 760.121(B) for power-supply requirements for fire alarm systems.

Exception No. 1: If RMC, IMC, EMT, Type MC, or steel armored Type AC cables meeting the requirements of 250.118 and metal outlet and junction boxes are installed for the portion of the branch circuit between the branch circuit overcurrent device and the first outlet, it shall be permitted to install an outlet branch-circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

(Continued on page 4)

Exception No. 2: Where a listed metal or nonmetallic conduit or tubing is encased in not less than 50 mm (2 in.) of concrete for the portion of the branch circuit between the branch-circuit over-current device and the first outlet, it shall be permitted to install an outlet branch-circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

Exception No. 3: Where an individual branch circuit to a fire alarm system installed in accordance with 760.41(B) or 760.121(B) is installed in RMC, IMC, EMT, or steel sheathed cable, Type AC or Type MC, meeting the requirements of 250.118, with metal outlet and junction boxes, AFCI protection shall be permitted to be omitted.

(B) Branch Circuit Extensions or Modifications — Dwelling Units.

In any of the areas specified in 210.12(A), where branch-circuit wiring is modified, replaced, or extended, the branch circuit shall be protected by one of the following:

- (1) A listed combination-type AFCI located at the origin of the branch circuit
- (2) A listed outlet branch-circuit type AFCI located at the first receptacle outlet of the existing branch circuit

Please note that anytime existing circuits described in Section (A) are repaired or replaced, it is required that you update to an Arc-Fault device.

Please review the noted information, the websites, and your own experiences and let us know your opinions.

The Metropolitan Historical Commission is turning 45!



2011 marks the 45th anniversary of the establishment of the Metropolitan Historical Commission. To celebrate this exciting milestone, each month the commission will feature a series of historic preservation highlights from Nashville history. Highlights include:

February 23, 1972 – A banner day for Davidson County additions to the National Register of Historic Places! Two Rivers, the Second Avenue Commercial District, The Parthenon, and the Old Gymnasium at Vanderbilt University were all officially listed in the National Register on this date. Two Rivers and The Parthenon (along with Centennial Park) were designated local Historic Landmarks in July 1999, and Second Avenue became a Historic Preservation Zoning Overlay District in March 1997. Not to be outdone, the Old Gym received a Preservation Award from the MHC at the Second Annual Architectural Awards Program in 1974.

Many other properties were listed in the National Register in Februarys of years past: Tulip Grove (1970), Fisk University Historic District (1978), Demonbreun's Cave (1980), Cheatham Building (1980), and Longleaf (1984).

February 16, 1983 – After holding the first “Metro Nashville Conference on Afro-American History and Culture” on September 9, 1981, co-hosting organizations Tennessee State University and the Metropolitan Historical Commission held the second conference on this date. Next week, we celebrate the 30th anniversary of this annual gathering of historians, educators, students, and friends--now known as the **Nashville Conference on African-American History and Culture**.

February 19, 2001 – In November 1996, the United States Congress officially designated the Tennessee Civil War National Heritage Area (TCWNHA). In 1998, the Center for Historic Preservation (CHP) at Middle Tennessee State University was charged with creating a Compact and Master Plan to develop, implement, and manage the TCWNHA. At a ceremony on this date, Governor Don Sundquist approved the Compact and Master Plan developed by the CHP and its statewide partners.

February 25, 2005 – Dedication of MHC historical marker honoring Randall Jarrell.

Utopia Hotel, 206 4th Avenue North (1979); Woodland-in-Waverly Historic District (1982); James Buchanan House, 2910 Elm Hill Pike (1984); Davidson County Courthouse, Public Square (1987); Waverly Place Historic District (1995);

Cameron School, 1034 1st Avenue South (2005); Vanderbilt University's Arthur J. Dyer Observatory, 1000 Oman Drive (2009)

March 21-22, 1979 – Nashville hosted “Downtown as Resource: Strategies for Main Street Revitalization.” The National Trust for Historic Preservation and the Southeastern Region office of the U.S. Chamber of Commerce co-sponsored the two-day conference on downtown revitalization which met at the Hyatt Regency.

March 13, 1981 – Dedication of the Historical Marker for “Mansker's First Fort” in Goodlettsville. The marker is located on Long Hollow Pike near Moss Wright Park. Want to know more about this marker? Visit our website! www.nashville.gov/mhc

1996 – After fifteen years of planning and a few stops and starts, Richland-West End became Nashville's third Neighborhood Conservation Overlay district. As reported in the Spring 1996 History Gram, “Richland-West End's success has piqued the interest of a number of historic neighborhoods...to get protective zoning for their own areas.”

March 8, 1997 – Dedication of the Historical Marker for “Lake Providence Community.” Visit our website to learn more!

March 5, 2001 – HGTV featured the Lockeland Springs home of MHZC staff member (now Executive Director) Tim Walker on “If Walls Could Talk,” a regular feature on home restoration and history

Source: Historical commission February 2011 Newsletter

Codes Department Mourns the Passing of Zoning Administrator Lon F. “Sonny” West



The Department of Codes & Building Safety is saddened by the loss of longtime Metropolitan Zoning Administrator, Sonny West.

Mr. West, who had been diagnosed with cancer, lost his battle with the disease on March 5, 2011.

He was educated at Duncan Preparatory School, Montgomery Bell Academy, Vanderbilt University (B.A.) and Vanderbilt School of Law (J.D.).

Sonny West is the longest tenured active employee of the Metropolitan Government. He began his career in Metro government in the Finance Department. He later moved to the Department of Law where he worked for more than 20 years. He was a chief author of the original zoning code for consolidated Metro Government.

Mr. West was a chief architect of Metro’s Zoning Code and had been the Metropolitan Zoning Administrator since 1985. He was responsible for the interpretation of the Metro Zoning Code, supervision of the issuance of permits, conducting zoning examinations, and for maintaining public records for the Codes Department.

The Metro Council recently recognized Mr. Lon “Sonny” West’s fifty-five years of service with Davidson County Government that began in June of 1955, prior to the creation of the Metropolitan Government.

In honor of his fifty-five years of dedicated service, the Council voted to name the new auditorium in the Howard office Building the “Sonny West Conference Center.”

During the Council meeting on February 1, 2011, Councilman Tygard said, "The reason that he worked so diligently for 55 years was not because he loved his job, I'll tell you, he had a tough job, but he had to make tough decisions not based on emotions or sentiment, but he had to make decisions based on the law and what was best for the city of Nashville."

A number of board meetings are held in the new conference center, to include the Metro Planning Commission and the Metro Board of Zoning Appeals.

Fulton Campus Complex Update

With the addition of the Offices of the Assessor of Property, County Clerk, Information Technology Services, and Finance at the Howard Office Building, the Fulton Campus has become a busy place for employees and visitors. We look forward to the Office of the Trustee moving to the campus in April.

The campus is designed to promote best practices for a healthy and secure workplace. The campus encourages physical activities, offers alternative transportation opportunities, and provides a smoke-free workplace.



New Tenants On Campus

Lindsley Hall

- Department of Finance, Procurement
- Metro Sports Authority
- Department of General Services

Howard Office Building

- Department of Finance OMB, Payroll, Grants, Treasury, and Accounts
- Assessor of Property
- Davidson County Clerk
- *Metropolitan Trustee (due to move-in in April 2011)*
- Information Technology Services

Visitor parking is available in front of Metro Office Building, behind Lindsley Hall, the Children’s Theater, and along Middleton Street and Lindsley Avenue.

Visitor entry. Visitors are required to present identification and sign in at MOB and Lindsley Hall. Visitors are not required to sign in at the HOB.

Nashville Riverfront Project Hosts New Website

New site to provide citizens with up-to-date information on project

The New Riverfront Park is designed to provide new public attractions, parkland and waterfront access, giving residents and visitors a reason to come and enjoy both sides of the riverfront. When fully implemented, the project area will be ten times the size of the existing Riverfront Park. These modifications include public features such as fountains, spraygrounds, boardwalks, overlooks, piers, performance spaces, wetlands, plazas, new docking facilities, increased bikeways, and open play space.

A restructured and expanded riverfront will be an astounding recreational and visual attraction for residents and visitors. It will draw more people to downtown along both sides of the river. The possibilities of adding public features, recreational opportunities, and improving the environmental quality of the land and water allows Nashville to turn and face the river once again; to give it back to the people and attain its full potential for future generations.

GOALS

The Design Team along with the New Riverfront Plan Steering Committee forged a series of goals to drive the design process. These goals will be used to gauge the project's success.

- More diverse and lively year round
- Easier to find and move around
- Greener
- Healthier, satisfying, community-oriented, great for kids
- Supportive of the local economy
- Smarter in its use of resources
- Resilient
- Value for Money
- Delivered on time, on budget, to quality standards
- Manageable, operable and maintainable

RIVERFRONT HISTORY



1700's

Learn about the beginning of Nashville's riverfront.
[Learn More >](#)



1800's

See how Nashville progressed in the 1800's.
[Learn More >](#)

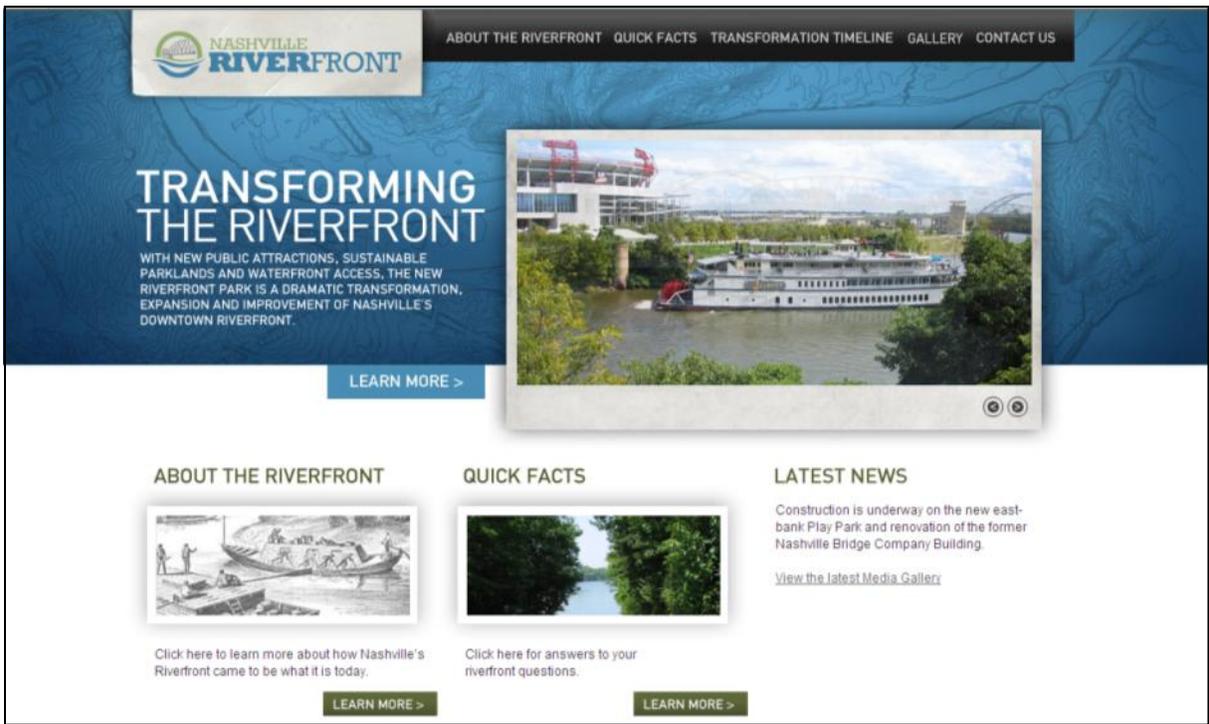


1900's

Learn about the growth of Nashville's skyline.
[Learn More >](#)

The graphic below is a screen shot of the new Riverfront Development programs web site. Visitors can obtain up to date information on the various development projects.

"Cities with great waterfronts can offer a better quality of life to retain and attract citizens and capital. Nashville has the potential to create a great waterfront that is truly world-class. The window of opportunity is open and conditions are right to move on this now —it is Nashville's time."
- Nashville Riverfront Concept Plan 2007



Mayor, HCA Announce Agreement to Develop New Public Health Headquarters

Government / business partnership to benefit entire County

Mayor Karl Dean announced an agreement with Nashville-based HCA to develop a new main public health facility for the Metro Nashville Public Health Department.



Mayor Karl Dean, with HCA Chairman and Chief Executive Officer Richard M. Bracken (at left) announced the agreement to develop a New Public Health Headquarters.

The agreement will allow for an exchange of property between HCA and Metro Government

that will provide Nashville with a new, state-of-the-art public health facility on Charlotte Avenue and give HCA ownership of the current Lentz Health Center property adjacent to its Centennial Medical Center complex. An ordinance to approve the agreement will be filed with the Metro Council in the near future.

“This agreement is an absolute win-win for the city and for HCA,” Dean said. “The citizens of Nashville will be getting a better, more accessible public health facility, and HCA will have the opportunity to expand the campus of Centennial Medical Center. Combined with the work that will soon be underway on the 28th Avenue Connector nearby, this project will help revitalize Charlotte Avenue and generate new economic development opportunities – all while improving our ability to provide critical public health services to our citizens.”

“This is an excellent example of government and business working together for everyone’s benefit,” said HCA Chairman and Chief Executive Officer Richard M. Bracken. “Once again this demonstrates the great leadership of our city, and we look forward to working with Metro to make these projects a reality.”

The current Lentz Public Health Center, which serves as both a clinic and as the administrative offices for the Metro Public Health Department, was built in 1958, expanded in 1978 and has never

been renovated to meet the modern needs of providing public health services. Prior capital improvement budgets included plans to renovate the building at a cost of \$22 million. For no more than \$28.5 million, HCA will construct a new public health headquarters to replace Lentz with a LEED-certified facility without the inconvenience of Metro Public Health having to relocate its operations during construction.

“The Lentz Health Center has been an important part of Nashville’s history for the past 50 years,” said Bill Paul, M.D., Director of Health. “For the past 10 years we have looked at a number of solutions to meet ADA compliance, improve building inefficiencies, and address growing structural issues. A new building on Charlotte would meet ADA compliance standards, be designed for today’s workforce and services to our customers, and offer direct access to a major MTA bus line.”

As part of the agreement, HCA will finance the new public health center until construction is completed and supervise the construction process. Metro will compensate HCA with 3 percent interest on the cost of construction and a \$50,000 fee to cover administrative costs. HCA will also be given a five-year tax abatement on the Lentz property and an additional five years with a 50 percent abatement, since there are no immediate plans to occupy the building or expand on the property.



John Arriola
Davidson County Clerk



Davidson County Clerk John Arriola’s main office has returned to the Howard Office Building at 700 Second Avenue South. The County clerk’s office is the latest Metro agency to move back into the newly renovated space that is part of the Fulton Complex.

The clerk’s office processes over 580,000 vehicle registrations issued each year, the scope of our services includes 27,000 business licenses, occupancy tax for 225 hotels/motels, over 8,000 notary licenses, and issuing more than 6,000 marriage licenses annually.

The main office at the Howard Office also processes applications for passports.

The Clerk’s office is a busy place. Davidson County Clerk, John Arriola, always looks for new ways to better serve the residents of Davidson County. If there is anything that we can assist you with, feel free to call us at (615)862-6050 or [email us here](#).

Metro Water Services Announces Changes to Stormwater Management Manual

Changes encourage Low Impact Development



The Directors of Metro Codes, Fire, Planning, Public Works, and Water Services developed a "Change Management Plan" process to better communicate proposed changes in codes, plans, departmental policies

or procedures to customers and stakeholders. Following that plan process, the attached is a Notice of Proposed Change (CM-SW02) by Metro Water Services Stormwater Division. The purpose of the proposed change is to develop a new volume of the Stormwater Management Manual to encourage Low Impact Development and to assess current floodway/floodplain regulations as directed by Ordinance BL2010-974 passed by Metro Council on December 21, 2010.

The "Change Management Plan" requires emailing this "Notice" to stakeholders. Association/organization representatives are en-

couraged to forward the "Notice" to their membership. Please send written comments to Sue Amos, Metro Water Services, 1600 Second Avenue North, Nashville, TN 37208 or via email to sue.amos@nashville.gov.

The Notice of Proposed Change (CM-SW02) is posted on the following website locations:

- MWS Home Page What's New" <http://www.nashville.gov/water/>
- MWS Stormwater "What's New" <http://www.nashville.gov/stormwater/index.asp>
- MWS Development <http://www.nashville.gov/water/development/index.asp>
- Development Services Home Page <http://www.nashville.gov/ds/index.asp>

Metro Water Services Receives a Perfect Rating

Nashville's water system scores 100, the highest score awarded

Metro Water Services (MWS) is proud to be among the top rated water utilities with a perfect score of 100 on its recent Tennessee Department of Environment and Conservation (TDEC) Sanitary Survey.

"This score is attributed to the expertise and professionalism of our employees, and I am extremely proud," said Scott Potter, MWS Director.

The Sanitary Survey is an unannounced annual onsite inspection performed by TDEC Division of Water Supply personnel. The sanitary survey evaluates and documents a water system's sources, facilities, operations and maintenance programs and is a requirement of the Safe Drinking Water Act (SDWA).

The survey's main focus is on the following areas:

- System Management and Operation
- Operator Compliance
- Source Water
- Treatment
- Monitoring, Reporting, Data Verification and Compliance
- Finished Water Storage
- Pumps, Pump Facilities and Controls
- Distribution System and Cross Connection Controls

The survey performed in February of 2011 was for the previous twelve-month period that included the timeframe of the May 2010 flood.

"Metro's ability to overcome the adversity of a treatment plant being down, distribution system damage and then manage to get the water system back to full capacity in short order must be com-

mended," said Environment and Conservation's Nashville Field Office Manager Erich Webber. "These actions as well as the performance during the sanitary survey illustrate Metro's commitments to producing quality water that consistently meets State and Federal standards."

For more information regarding Metro Water Services and your drinking water, please visit <http://www.nashville.gov/water>.



An LED light bulb can be expected to give up to 50,000 hours of light.



SATCO
Satco High Performance LED PAR30 Longneck lamp. The LED PAR30 Long Neck design directly replaces existing 75 watt incandescent bulbs.

A conventional white incandescent bulb has a lifespan 1,200 hours of light.



75 Watt - A21 - Frosted Incandescent Light Bulb

**Department of
Codes & Building Safety**

Metro Office Building
800 2nd Ave., South
Nashville, TN 37210
615-862-6590 / Fax 862-6593

Mayor—Karl F. Dean

Director—Terrence Cobb

Office Hours: Mon-Fri /
7:30-4:00



14th Annual Metro Codes Charity Golf Tournament a Success

Terry Cobb, Director of Codes & Building Safety with Carla Langley, presented a check to Mayor Karl Dean for \$28,000 in support of the City's Metropolitan Employees Combined Charities Campaign.

These funds were raised by the annual Codes Golf Tournament held in October of last year. This years event set a record for monies raised.



Pictured, left to right: Carla Langley, Codes MECCC Chair, Mayor Karl Dean, and Terry Cobb, Director of Codes & Building Safety.

Save The Date October 1st Codes Announces 15th Annual Metro Codes Charity Golf Tournament

The 15th Annual Metro Codes Charity Golf Tournament will be held on October 1, 2011 at the Ted Rhodes Golf Course.

Last year's tournament, was the most successful in the events 14 year history. Through the support of 140 sponsors and 128 golfers, \$28,000 was donated to local charities through the Metro Employees Consolidated Charities Campaign (MECCC).

This year, all proceeds will again go to the Metro Employees Consolidated Charities Campaign for the benefit of local charities, Easter Seals Camp Programs and the Harris-Hillman School.



PASS IT ON!

Pass the word about our newsletter! We would be honored if you would share our newsletter with your colleagues and co-workers. If anyone would like to sign up to receive it themselves, they just need to send us their email, and we will be happy to "Pass It On" to them.

Terry Cobb and **Wade Hill** welcome your feedback on our e-newsletter. Please send your comments to [Wade Hill](mailto:wade.hill@nashville.gov), at wade.hill@nashville.gov
Plans Examination Chief , 862-6520