



# **ENERGY EFFICIENCY**

## 7. GOVERNMENT ENERGY AUDITS

### DESCRIPTION OF MEASURE

The local government has performed energy audits and is implementing the recommendations of the audits and/or is engaging in performance contracting in buildings owned by the local government. To receive credit for this measure, at least 20 percent of the local government's buildings must be audited with changes implemented and/or under a performance contract for energy efficiency when documents are submitted for Green Communities Certification. Additionally, a plan must be in place to ensure all existing buildings will be audited or under a performance contract within four years. All government-owned buildings open during normal weekday operating hours are subject to an energy audit every 4-5 years.

The American Society of Heating Air Conditioning and Refrigeration Engineers (ASHRAE) classifies energy audits in three levels. At a minimum, level 1 audits should be performed on facilities.

- Level I – Walk Through Analysis: Assess a building's energy cost and efficiency by analyzing energy bills and conducting a brief on-site survey of the building. Identifies energy savings and a cost analysis for low-cost and no-cost measures and a list of potential capital improvements for further consideration.
- Level II – Energy Survey and Analysis: A more detailed building survey and energy analysis that provides an energy analysis identifying the savings and costs of all practical measures and a discussion of changes to operation and maintenance procedures. A list of potential capital-incentives improvements that require more data collection and engineering analysis is provided.
- Level III – Detailed Analysis of Capital-Intensive Modifications: Focuses on potential capital-intensive projects identified during the Level II audit and involved more detailed field data gathering and engineering analysis. Detailed project cost and savings calculations are provided to be used for making major capital investment decisions.

## DOCUMENTATION REQUIRED FOR CREDIT

- A description of items inspected for in the energy audits
- A complete list of the existing government owned buildings, indicating those that have been audited, including what changes have been implemented from the audits
- A description of the plan to audit and implement changes in remaining buildings within 4 years

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide documentation demonstrating that all the facilities owned and operated by the local government receive an energy audit every 4-5 years or are under a performance contract for energy efficiency every 4-5 years. Also provide an updated version of the list of facilities (including street address and zip code) that have received energy audits or are under a performance contract. Please provide a description of what recommendations from the audits or measures of the performance contract have been implemented. If a facility has not been audited or is not under a performance contract, please explain why. If possible, please provide any information the local government has on the energy savings, reduction in greenhouse gas emissions, or other measurable benefits achieved as a result of these audits and energy efficiency improvements. Additionally, the local government should have some of the facilities entered into EnergyStar Portfolio Manager with a plan in place to have all facilities entered within two years of recertification.

## OUR ACHIEVEMENTS

- Currently, the City of Norcross is tracking electrical utility usage for four City buildings and plans to follow suggestions according to audit. City Staff will enter 1/2 of the remaining facilities into Energy Start Manager by December 2020, and the remaining facilities by May 2021 for tracking moving forward. The buildings that were not audited are either vacant or small public restroom facilities.
- Southface Institute created an overall report of the current electrical state of the selected government buildings on May 8th, 2018. Then Southface provided project recommendations for us to pursue to save more money on energy, such as LED light bulb retrofits or replacing HVAC units. They also gave us annual cost savings, budgetary project costs, simple payback in years, and annual electrical savings. [Please see Appendix A for full reports.](#)
- The City of Norcross hired the Southface Institute to conduct an energy audit at City Hall, Public Works, and the Cultural Arts Center.
  - City Hall: 65 Lawrenceville Street, Norcross GA 30071
  - Public Works: 345 Lively Avenue, Norcross GA 30071
  - Cultural Arts Center: 10 College Street. Norcross GA 30071
- Government buildings that were not audited are:
  - NCACC - 10 College Street
  - Rectory - 10 College Street (separate building)
  - Latin American Association - 128 Lawrenceville Street (Vacant and being used for storage)
  - Webb Park Gateway Building (restrooms) - 57 Bostic Street
  - Thrasher Park Pavilion (restrooms) - 100 Park Drive
  - Brundage Park Pavilion (restrooms) - 349 Autry Street
  - Police Department Storage - 168 Wingo Street
  - Kudzu Art Zone - 116 Carlyle Street
  - Johnson-Dean Park - 145 Barton Street (Building demolished in January 2020)
- Since the audit, Norcross is retrofitting all lights to use motion sensors. We are replacing lights with LED light bulbs in all three facilities when new bulbs are needed. A destratification fan was installed in the City Hall rotunda in 2019.

## NORCROSS PUBLIC WORKS

345 Lively Ave, Norcross, GA 30071



### REPORT DATE

May 8, 2018

### SITE DETAILS

- Municipal Building
- 22,495 Square Feet
- Opened in 1980

### ENERGY BENCHMARKS

- Annual Electricity Cost: \$20,300
- Annual Gas Cost: \$1,100

### PROJECT CONTACT

- Kavin Manickaraj, Technical Project Manager
- kmanickaraj@southface.org

### Assessment Overview

Norcross Public Works Building I is located in Norcross, GA, and is a 22,495 ft<sup>2</sup> municipal building built in 1980. The building houses city archive documents, the public works personnel offices, and a warehouse. The facility is occupied continuously throughout the year by staff. Up to 30% electricity savings and 10% gas savings can be realized if all energy conservation opportunities are pursued. These opportunities are listed below in the Project Summary Table.

### Project Summary Table

Efficiency Measure	Annual Cost Savings	Budgetary Project Cost	Simple Payback (Years)	Estimated Annual Electricity Savings (KWh)	Estimated Annual Natural Gas Savings (Therms)
LED Lighting & Controls	\$5,000	\$10,600	2.1	45,300	-
Wi-Fi Communicating Thermostats	\$700	\$3,500	5.0	11,300	20
<b>Total</b>	<b>\$5,700</b>	<b>\$14,100</b>	<b>2.5</b>	<b>56,600</b>	<b>20</b>

## NORCROSS CITY HALL

65 Lawrenceville St NW, Norcross, GA 30071



### Assessment Overview

Norcross City Hall is located in Norcross, GA, and is a 30,533 ft<sup>2</sup> municipal building built in 1980. The building houses the courthouse, city clerk's office, a 24/7 police station, and other administrative offices. The facility is occupied continuously throughout the year by staff. Up to 32% electricity savings can be realized if all energy conservation opportunities are pursued. These opportunities are listed below in the Project Summary Table.

#### REPORT DATE

May 8, 2018

#### SITE DETAILS

- Municipal Building
- 30,553 Square Feet
- Opened in 1980

#### ENERGY BENCHMARKS

- Annual Electricity Cost: \$66,099

#### PROJECT CONTACT

- Bryant Hains, Sr. Technical Project Manager
- bhains@southface.org

### Project Summary Table

Efficiency Measure	Annual Cost Savings	Budgetary Project Cost	Simple Payback (Years)	Estimated Annual Electricity Savings (KWh)	Estimated Annual Natural Gas Savings (Therms)
LED Lighting	\$7,128	\$8,369	1.2	70,681	0
Wi-Fi Communicating Thermostats	\$2,300	\$11,000	4.8	38,341	0
ENERGY STAR ASHP when replacing HVAC Units	\$6,552	\$23,644	3.6	101,895	0
DHW Recirculating Pump Timer (per)	\$114	\$106	0.9	1,132	0
<b>Total</b>	<b>\$16,095</b>	<b>\$43,119</b>	<b>2.7</b>	<b>212,050</b>	<b>0</b>

## NORCROSS CULTURAL ARTS & COMMUNITY CENTER

10 College St NW, Norcross, GA 30071



### **REPORT DATE**

May 8, 2018

### **SITE DETAILS**

- Community Center
- 16,720 Square Feet

### **ENERGY BENCHMARKS**

- Annual Electricity Cost: \$15,775
- Annual Natural Gas Cost: \$517

### **PROJECT CONTACT**

- Jenna Grygier, Project Engineer
- [jgrygier@southface.org](mailto:jgrygier@southface.org)

## Assessment Overview

Norcross Cultural Arts and Community Center is located in Norcross, GA, and is a 16,720 ft<sup>2</sup> municipal building. The building houses a ballroom, theatre, classrooms, gym and administrative offices. The facility is occupied throughout the year by staff, and almost every weekend it is used as community gathering space. Up to 27% electricity savings can be realized if all energy conservation opportunities are pursued.

It is important to note that in the table below, the annual cost savings and payback excludes natural gas cost savings, since the gas meter is not reading total usage properly. However, the [Revised Project Summary Table](#) can be referenced for more information on predicted natural gas savings, if this resolves in the future. Additionally, the costs and savings associated with upgrading the HVAC units represent incremental project cost and savings, when compared to standard federal minimum efficiency requirements.

## Project Summary Table

Efficiency Measure	Annual Cost Savings	Budgetary Project Cost	Simple Payback (Years)	Estimated Annual Electricity Savings (kWh)	Estimated Annual Natural Gas Savings (Therms)
LED Lighting & Controls	\$2,306	\$7,319	3.2	20,967	-
Wi-Fi Communicating Thermostats	\$849	\$7,500	8.8	8,000	554
ENERGY STAR HVAC when replacing HVAC Units (incremental)	\$516	\$19,596	>25	4,691	723
<b>Total</b>	<b>\$3,671</b>	<b>\$34,415</b>	<b>9.4</b>	<b>33,659</b>	<b>1,277</b>

# 8. GOVERNMENT ENERGY STAR PARTNER

## DESCRIPTION OF MEASURE

A local government is an ENERGY STAR Partner in accordance with the ENERGY STAR Partner guidelines outlined in the Organizations that own/manage/lease buildings or plants section of the ENERGY STAR website. This includes sending in the ENERGY STAR Partner letter, creating an Energy Strategy for the Future, and promoting the ENERGY STAR Challenge. By becoming an ENERGY STAR Partner, the jurisdiction agrees to 1) measure, track, and benchmark energy performance, 2) develop and implement a plan to improve energy performance by adopting the ENERGY STAR strategy, and 3) educate staff and the public about the partnership and achievements with ENERGY STAR.

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the submitted ENERGY STAR Partner letter
- A copy of the jurisdiction's Energy Strategy for the Future
- Educational materials used to educate staff and the public about the partnership and ENERGY STAR

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a description of how the local government is actively promoting the ENERGY STAR partnership including, progress on the energy strategy for the future, materials used to educate employees on the partnership, and other relevant information on partnership related activities.

## OUR ACHIEVEMENTS

- Local Government is promoting Energy Star Partnership as part of monthly education emails to employees, Energy Star Purchasing Policy item 9.
- We are educating the staff via email newsletters, example is attached.

## Erica Madsen

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**From:** Hannah Knab  
**Sent:** Wednesday, September 11, 2019 11:40 AM  
**To:** cityofnorcrossemployees@norcrossga.net; mayorandcouncil@norcrossga.net  
**Subject:** ~Monthly Dose of Sustainability~

Dear City of Norcross,

### Get ready for another MONTHLY DOSE OF SUSTAINABILITY!

Just to recap last month's email – we reviewed the first category of the Green Communities Program, **GREEN BUILDING**. We have created policies and ordinances that will help us enforce any new government buildings or retrofits to be LEED, ENERGY STAR and/or EarthCraft certified. Soon, we are going to have our very own LEED certified building (the new police department), and offer incentives for developers to construct green buildings and offer affordable housing in our community!

Keep your fingers crossed that we can get as many points as we can!

**ENERGY EFFICIENCY and GREEN POWER** is the second category of the recertification process. We will be applying for 60 out of 80 points for this section.

**Energy Efficiency** means using less energy to perform the same task and eliminating energy waste.

Did you know... In 2017, coal and nuclear plants supplied half of Georgia's net electricity generation. Natural gas supplied more than 2/5 of the net electricity generation. The rest of the electricity was generated by biomass and hydroelectricity.

**Green Power** is the use of renewable energy and technologies that provide the highest environmental benefit. Solar, wind, geothermal, biogas, eligible biomass, and low-impact hydroelectricity are all renewable energy sources.

- ✓ **Energy Audits** – Conducting energy audits of local government buildings
- ✓ **ENERGY STAR Partnership** – Become an ENERGY STAR partner and develop an Energy Strategy for the Future



## Partnership Agreement between ENERGY STAR® and

City of Norcross

(ENTER PARTNER NAME HERE)

Through this agreement, City of Norcross ("ENERGY STAR Partner") joins in partnership with the US Environmental Protection Agency (EPA) and the Department of Energy (DOE) in one or more areas. ENERGY STAR Partner recognizes ENERGY STAR as a broad partnership designed to promote buildings, products, homes, and industrial facilities that use less energy while providing the same or better performance than conventional designs. ENERGY STAR Partner wishes to use the ENERGY STAR name and/ or mark in association with qualified products or homes. ENERGY STAR Partner agrees to use the partnership and the ENERGY STAR mark to promote energy efficiency as an easy and desirable option for organizations and consumers to prevent pollution, protect the global environment, and save on energy bills. ENERGY STAR Partner agrees that it is important to build and maintain the meaning of the ENERGY STAR mark as a trustworthy symbol that makes it easy to make a change for the better.

### Partner Commitments

ENERGY STAR Partner is committed to taking action in the area(s) indicated on the ENERGY STAR Participation Form. For the designated program area(s), ENERGY STAR Partner agrees to fulfill all requirements as outlined in the following supporting documents:

- ENERGY STAR Program Requirements, defining requirements for being recognized as a partner in each program area, such as manufacturing, selling, or promoting ENERGY STAR qualified products to consumers or organizations. Specific requirements include identifying a responsible party for each area of participation and updating EPA/DOE on the efforts undertaken through the partnership. Where applicable, these include ENERGY STAR eligibility criteria defining the energy and other performance specifications that must be met for use of the ENERGY STAR mark on and/or in association with buildings, homes, and products; and
- ENERGY STAR Identity Guidelines, describing how the ENERGY STAR name and mark may be used. Partner will adhere to these guidelines and ensure that its authorized representatives, such as advertising agencies, dealers, and distributors, are also in compliance.

EPA/DOE will undertake a variety of efforts to build awareness of the ENERGY STAR name and mark, maintain the credibility of the ENERGY STAR name and mark, and promote the benefits of energy-efficient homes, buildings, products, services, and industrial facilities. EPA/DOE will strive to:

- increase awareness of the ENERGY STAR name and mark across the residential, commercial, and industrial sectors by distributing key messages on the benefits of ENERGY STAR qualified buildings, homes, and products;
- make current versions of the ENERGY STAR Identity Guidelines and ENERGY STAR Program Requirements easily accessible through the Internet and other means;
- maintain a Web site where ENERGY STAR Partner can furnish information on its program efforts and responsible key contacts as outlined in the ENERGY STAR Program Requirements; and
- provide ENERGY STAR Partner with public recognition through the Internet and other mechanisms for its efforts in the ENERGY STAR Partnership and its role in protecting the environment.

# 9. GOVERNMENT ENERGY STAR PURCHASING POLICY

## DESCRIPTION OF MEASURE

The local government has an officially adopted ordinance or policy to only purchase equipment and appliances for use in any local government facility that are at least ENERGY STAR rated.

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the ordinance or policy with date of adoption
- A description of how the policy has been incorporated into existing purchasing policies

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the most recent version of the policy and a description of any changes that have occurred since the policy's original adoption. Provide documentation demonstrating that the local government purchases ENERGY STAR rated equipment and appliances. Examples of documentation can include invoices for purchases, a list of equipment or appliances purchased in the past year, etc. If possible, provide energy savings from purchasing ENERGY STAR rated equipment and appliances.

## OUR ACHIEVEMENTS

- The policy has not changed since it was adopted in 2010.
- Norcross Staff have been continuously purchasing ENERGY STAR equipment. Photos are attached of said equipment.



## CITY OF NORCROSS ENERGY STAR PURCHASING POLICY

### I. POLICY STATEMENT

All City of Norcross departments and agencies initiating procurement of items should specify ENERGY STAR certified products whenever such products are available. Procurement shall include direct purchases and leases. All departments developing or administering the development of technical specifications for construction projects for the city shall ensure that the specifications include requirements for ENERGY STAR products, equipment, and components whenever such items are available and suitable for the intended purpose.

### II. PURPOSE

The purpose of this policy is to reduce the city's energy usage, protect the environment, and save tax payer money by purchasing ENERGY STAR rated products, equipment, and components rather than purchasing similar items that do not meet ENERGY STAR specifications.

### III. DEFINITIONS

*ENERGY STAR:* A joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy for the purpose of protecting the environment through the identification and promotion of economical and energy efficient products and practices.

### IV. DESCRIPTION

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy for the purpose of protecting the environment through the identification and promotion of economical and energy efficient products and practices.

Products carrying the ENERGY STAR symbol provide a way for governments, businesses, and consumers to save money, while at the same time, protect our environment. Products carrying the ENERGY STAR label aren't necessarily better products than comparable non-labeled products. However, in order to be rated ENERGY STAR, the product must deliver the same or better performance as comparable models while using less energy and saving money.

Key Benefits of ENERGY STAR products are as follows:

1. Reduced energy use of 10% – 75%, without compromising quality or performance.
2. Fewer emissions of greenhouse gases, resulting from reduced use of fossil fuels.
3. Significant return on investment.
4. Extended product life (for specific products) and decreased maintenance.

Products in more than 60 categories are eligible for ENERGY STAR. Please see the ENERGY STAR website for a full listing of product categories, key product criteria, qualified model lists, savings calculators, and sample procurement language.



## V. EXCEPTIONS

Departments not submitting ENERGY STAR designated product specifications shall provide the City Manager with a written explanation of why this policy is not being followed. Only the City Manager may grant an exception to the policy; and all such exceptions must be documented for the record.

## VI. RESPONSIBILITY

All departments within the government of the City of Norcross are responsible for complying with this policy. The primary responsibility of overseeing this policy will reside with the Department heads with oversight by the City Manager.

## VII. REFERENCES

U.S. EPA ENERGY STAR Program

Rudolph Smith  
City Manager  
Effective Date: April 1, 2010

**From:** Ann Ray [mailto:aray@norcrossga.net]  
**Sent:** Wednesday, March 24, 2010 9:21 AM  
**To:** Department Heads  
**Cc:** Rudolph Smith; Connie Weathers  
**Subject:** Four Policies

When Ms. Connie Weathers met with the Department Heads/Managers on March 16, 2010, she explained the need and intent of four Energy Policies recommended to the City. These policies were adopted for departments on that date, March 16, 2010. They are effective on April 1, 2010.

I am attaching a copy of each of these policies for your presentation to employees in your department. Please know that you are responsible for making sure that each employee understands the content of these policies.

Rudolph Smith  
City Manager

**INDUSTRY CERTIFICATIONS**

<b>BLACK-AND-WHITE DEVICES</b>	<b>Security Certifications</b>		
	<b>COMMON CRITERIA</b>	<b>FIPS 140-2</b>	<b>MCAFEE® SECURITY</b>

<b>PRINTERS</b>			
Xerox® B210			
Xerox® Phaser® 3330			
Xerox® VersaLink® B400		✓	
Xerox® VersaLink® B600/B610		✓	

<b>MULTIFUNCTION PRINTERS</b>			
Xerox® B205/215			
Xerox® WorkCentre® 3335/3345			
Xerox® VersaLink® B405	✓	✓	
Xerox® VersaLink® B605/B615	✓	✓	
Xerox® VersaLink® B7025/B7030/B7035	✓	✓	
Xerox® WorkCentre® 5755 Factory Produced New Model	✓	✓	
Xerox® AltaLink® B8045/B8055/ B8065/B8075/B8090	✓	✓	✓
Xerox® D95A/D110/D125 Copier/Printer	✓		
Xerox® D110/D125 Printer	✓		
Xerox® D136 Copier/Printer	✓	✓	

**COLOR DEVICES**

<b>PRINTERS</b>			
Xerox® Phaser® 6510			
Xerox® VersaLink® C400		✓	
Xerox® VersaLink® C500		✓	
Xerox® VersaLink® C600		✓	
Xerox® VersaLink® C7000		✓	
Xerox® VersaLink® C8000		✓	
Xerox® VersaLink® C9000		✓	

<b>MULTIFUNCTION PRINTERS</b>			
Xerox® WorkCentre® 6515			
Xerox® VersaLink® C405	✓	✓	
Xerox® VersaLink® C505	✓	✓	
Xerox® VersaLink® C605	✓	✓	
Xerox® VersaLink® C7020/C7025/C7030	✓	✓	
Xerox® WorkCentre® 7535/7556 Factory Produced New Model	✓	✓	
Xerox® AltaLink® C8030/C8035/ C8045/C8055/C8070	✓	✓	✓
Xerox® Color C60/C70 Printer	✓	✓	
Xerox® PrimeLink C9065/C9070 Printer <sup>12</sup>	✓ <sup>13</sup>	✓	
Xerox® WorkCentre® EC7836/EC7856	✓	✓	✓

<b>Environmental Certifications</b>			
<b>ENERGY STAR®</b>	<b>BLUE ANGEL</b>	<b>ECOLOGO®</b>	<b>EPEAT® (MULTIPLE COUNTRIES)<sup>7</sup></b>

✓	✓	✓	✓
✓	✓	✓	✓
✓ <sup>5</sup>	✓	✓	✓ <sup>5</sup>
✓	✓	✓	✓

✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
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## MEDITECH Certification

Medical Information Technology, Inc. (MEDITECH) is a leading provider of integrated software solutions for healthcare organizations worldwide. This certification validates that Xerox® devices are fully compatible with MEDITECH's MAGIC operating system: a health information system that provides a structured and easy-to-use programming language to more than 1,500 healthcare organizations worldwide. With this certification Xerox continues to achieve noteworthy healthcare industry praise for its award-winning line of devices and it allows Xerox to participate in customer bids where MEDITECH Certification is a requirement. These certified devices are then fully supported by MEDITECH help desk technicians 24/7, 365 days a year, giving their clients and ours the assurance that support will be available at all times.

## SAP Certification

Xerox, together with SAP through our Gold-level membership in the SAP Printer Vendor Program, provides seamless connectivity between SAP systems and your Xerox® printers and MFPs. And as an SAP customer you benefit from having SAP-certified Xerox® device types available right from SAP's online delivery model. Whether you are using an existing Xerox® product or plan to upgrade, you can be assured that you will have printing continuity within your SAP environment. You also have the peace of mind knowing that you can contact SAP for support regarding any device type issues. And Xerox has a direct link to SAP that allows us to keep our device types current and in line with SAP release updates. SAP-certified device types are available for the legacy R/3 system and newer ERP releases all the way up to current SAP offerings.

## SECURITY CERTIFICATIONS

### Common Criteria Certification

Common Criteria Certification provides independent, objective validation of the reliability, quality, and trustworthiness of IT products. It is a standard that customers can rely on to help them make informed decisions about their IT purchases. Common Criteria (aka ISO 15408) sets specific information assurance goals, including strict levels of integrity, confidentiality, and availability for systems and data, accountability at the individual level, and assurance that all goals are met. Common Criteria Certification is a requirement for hardware and software devices used by the federal government on national security systems.

### FIPS 140-2

All hardware and software components that are used by government and other key industries for the purpose of collecting, storing, transferring, sharing and disseminating sensitive but unclassified information are required to be FIPS 140-2 certified. FIPS 140 is a series of coordinated requirements issued by the National Institute of Standards and Technology (NIST) to validate the product's level of security depending on its intended use.

### McAfee® Security

Built-in McAfee security provides protection against intrusion from within Xerox® MFPs built on Xerox® ConnectKey® Technology. Two levels of protection are offered.

McAfee Enhanced Security is standard and allows only an approved, predefined list of applications, code and software files to run on the device. This McAfee agent is Xerox factory installed and it monitors in the background for any changes to Xerox factory default system applications used to operate the device.

McAfee Integrity Control is an optional, commercial application that supports a higher level of whitelisting and change control or dynamic whitelisting. This protects the device's executable files from tampering and identifies trusted sources, controls what can change, who can change and when it can change.

## ENVIRONMENTAL COMPLIANCE

### ENERGY STAR®

With the goals of reducing energy consumption and greenhouse gas emission, ENERGY STAR is a voluntary program sponsored by the United States Environment Protection Agency. Products carrying the label are certified for matching or beating federal energy conservation standards.

### Blue Angel

Based in Germany, Blue Angel was the world's first certification for environmental friendliness. Its purposes are to promote ecological awareness and to guide environmentally conscious consumers to the most ecologically sound products.

### ECOLOGO®

Canada's ECOLOGO certification is especially stringent. This program mandates strict environmentally conscious requirements must be met throughout the life-cycle of the product, and it must also meet performance requirements when compared to its closest alternatives.

### EPEAT®

EPEAT (multiple countries) is a global registry for environmentally friendly electronics for purchasers, manufacturers, resellers and others wanting to find and promote environmentally preferable products. EPEAT uses a self-declaration and rigorous verification system to ensure the products conform to the established criteria. Once products are added to the registry, EPEAT may use independent experts to verify that the products meet the selected criteria as claimed. All Xerox® products listed in this document are EPEAT-certified in the U.S. Various products are also certified in additional countries. For more information, go to [www.epeat.net](http://www.epeat.net).



ENERGY STAR WATER FILTER/COOLER

Name: PUBLIC WORKS  
 Address: ATTN: PUBLIC WORKS  
 65 LAWRENCEVILLE ST  
 NORCROSS GA 30071  
 Account #: XXXXXX1323  
 Store: 1507

Invoice Date: 25-FEB-19  
 Due Date: 15-APR-19  
 Invoice #: 901823  
 P.O.#/Job Name: 99999  
 Buyer Name: DAVIS JOHN

Cust Agree #: 0000000000

SKU	Description	Quantity	Unit	Price	Ext.Price
0000000000117	5-FT UNIV DW FILL HOSE	1	EA	16.13	16.13
22					
0000000000198	HANDY BOX COVER FLAT	1	EA	0.92	0.92
46	KO				
0000000000356	14-2 MC W/GRN GRND AL	1	EA	26.65	26.65
64	CLA				
0000000000495	SIGMA 3/8-IN FLEX 90-	1	EA	1.31	1.31
48	DEG				
0000000000554	1-1/2-IN END OUTLET	1	EA	6.64	6.64
99	WASTE				
0000000000742	SWITCH BOX OLD WORK	1	EA	4.84	4.84
19	1/2-I				
0000000000951	DISHWASHER AIR GAP	1	EA	9.96	9.96
45	BRUSHE				
0000000001144	SIGMA 3/8-IN FLEX BX	1	EA	8.06	8.06
77	CONN				
0000000001556	PROMOTIONAL DISCOUNT	1	EA	0.00	0.00
70	APPL				
0000000001559	DUAL SHUT OFF VALVE	1	EA	18.98	18.98
48	5/8-I				
0000000006152	4-FT 6 OUT 1000J SURGE	1	EA	11.86	11.86
25	ST				
0000000006574	SIEMENS 15A COMBO	1	EA	42.72	42.72
0000000007135	LG BI DISH LDF5545ST(-	1	EA	521.54	521.54
02	156				
0000000008556	DUAL 1/2-IN X 3/8-IN X	1	EA	18.98	18.98
61	1/				
0000000008792	3/4-IN ID BRAIDED	1	EA	21.36	21.36
73	TUBING				
0000000009109	2-CT #10 CLAMP	1	EA	1.98	1.98
73					

Subtotal: 711.93

Send Inquiries to:  
 Lowe's Commercial Credit  
 P.O. Box 965054  
 Orlando, FL 32896

Send Payments to:  
 Lowe's Credit Services  
 P. O. Box 530954  
 Atlanta, GA 30353-0954

Name: PUBLIC WORKS  
 Address: ATTN: PUBLIC WORKS  
 65 LAWRENCEVILLE ST  
 NORCROSS GA 30071  
 Account #: XXXXXX1323  
 Store: 1507

Invoice Date: 29-JAN-19  
 Due Date: 15-MAR-19  
 Invoice #: 918874  
 P.O.#/Job Name: 27611  
 Buyer Name: RUTLEDGE MARVIN

Cust Agree #: 0000000000

SKU	Description	Quantity	Unit	Price	Ext. Price
0000000001556	PROMOTIONAL DISCOUNT	1	EA	0.00	0.00
0000000007733 59	3.3-CU FT ALL REFRIGERATO	1	EA	141.55	141.55
Subtotal:					141.55

Tax: 0.00

Total: 141.55

Adjustments: 0.00

Payments Applied: (141.55)

Total Amt Outstanding: 0.00

\*\*\*\*\* End of Invoice \*\*\*\*\*



ENERGY STAR REFRIDGERATOR

U.S. Government Federal law prohibits removal of this label before consumer purchase.

# ENERGYGUIDE

Refrigerator  
 • Partial Automatic Defrost

Electrolux  
 Model FFPS31L2QM  
 Capacity: 3.1 Cubic Feet

Compare ONLY to other labels with yellow numbers.  
 Labels with yellow numbers are based on the same test procedures.

Estimated Yearly Energy Cost  
**\$32**

Cost range not available

**270** kWh  
 Estimated Yearly Electricity Use

• Your cost will depend on your utility rates and use.  
 • Cost range based only on models of similar capacity with partial automatic defrost.  
 • Estimated energy cost based on a national average electricity cost of 12 cents per kWh.

ftc.gov/energy

Name: PUBLIC WORKS  
 Address: ATTN: PUBLIC WORKS  
 65 LAWRENCEVILLE ST  
 NORCROSS GA 30071  
 Account #: XXXXXX1323  
 Store: 1507

Invoice Date: 16-NOV-18  
 Due Date: 15-DEC-18  
 Invoice #: 901836  
 P.O.#/Job Name: 99999  
 Buyer Name: DAVIS JOHN

Cust Agree #: 000000000

SKU	Description	Quantity	Unit	Price	Ext. Price
000000001556	PROMOTIONAL DISCOUNT	1	EA	0.00	0.00
0000000008383	WP DW WDT970SAHV	1	EA	616.55	616.55
88					

*Dishwasher*

Subtotal: 616.55

Tax: 0.00

Total: 616.55

Adjustments: 0.00

Payments Applied: (616.55)

Total Amt Outstanding: 0.00

**ENERGYGUIDE**  
 Energy consumption / Consommation énergétique  
**258 kWh**  
 per year / par année  
 Uses least energy / Consomme le moins d'énergie  
 Built-in standard / Encastrés ordinaires  
 Model number: LDF5548\*\* LDB454\*\*\*

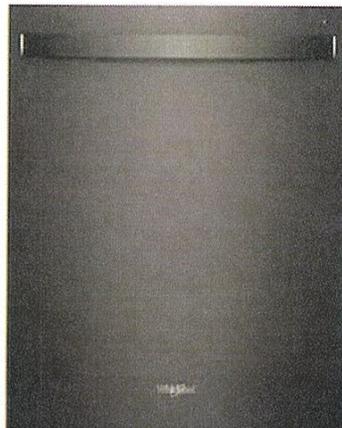
**ENERGYGUIDE**  
 Estimated Yearly Energy Cost (when used with an electric water heater)  
**\$34**  
 Estimated Yearly Electricity Use: **258 kWh**  
 Estimated Yearly Energy Cost (when used with a natural gas water heater): **\$26**  
 Your cost will depend on your utility rates and use.

Item # 030388 Model # WDT970SAHV  
**Whirlpool 47-Decibel Built-In Dishwasher**  
 (Fingerprint-Resistant Fingerprint Resistant Black Stainless) (Common: 24 Inch; Actual: 23.875-in)  
**ENERGY STAR**

1952 Ratings  
 ★★★★★  
 4.5 Average

91%  
 Recommend this product

Community Q&A  
 View Now



**\$899.00** Was \$999.00

SAVE 10% thru 02/05/2020

- Third level rack - take advantage of more rack space to load dishes and get extra room for hard to fit items
- Get the right settings for each load with the Sensor cycle
- Target dishes using over 20 jets with the TotalCoverage sp

Manufacturer Color/Finish

Fingerprint Resistant Black Stainless



Lowe's Has You Covered

We're here to help with extended warranty protection, assembly, haul away and more. Add to cart to view availability.

Name: PUBLIC WORKS  
 Address: ATTN: PUBLIC WORKS  
 65 LAWRENCEVILLE ST  
 NORCROSS GA 30071  
 Account #: XXXXXX1323  
 Store: 1507

Invoice Date: 06-NOV-18  
 Due Date: 15-DEC-18  
 Invoice #: 980551  
 P.O.#/Job Name: 99999  
 Buyer Name: DAVIS JOHN

Cust Agree #: 000000000

SKU	Description	Quantity	Unit	Price	Ext.Price
0000000001556	PROMOTIONAL DISCOUNT	1	EA	0.00	0.00
0000000006237 77	WP 14.33-CU FT WRT314TFDW	1	EA	407.55	407.55
Subtotal:					407.55

Whirlpool  
Refrigerator

Tax: 0.00  
 Total: 407.55  
 Adjustments: 0.00  
 Payments Applied: (407.55)  
 Total Amt Outstanding: 0.00

U.S. Government Federal law prohibits removal of this label before consumer purchase.

# ENERGYGUIDE

Dishwasher Capacity: Standard Whirlpool Corporation Models: WDTA50SAH\*\*, WDT1750SAH\*\*, WDT1970SAH\*\*

**Estimated Yearly Energy Cost**  
(when used with an electric water heater)

**\$32**

Cost Range of Similar Models: \$21 - \$41

**270 kWh** Estimated Yearly Electricity Use

**\$25** Estimated Yearly Energy Cost (when used with a natural gas water heater)

Your cost will depend on your utility rates and use.

• Cost range based only on standard capacity models.  
 • Estimated energy cost based on four wash loads a week and a national average electricity cost of 12 cents per kWh and natural gas cost of \$1.09 per therm.  
 • For more information, visit [www.ftc.gov/energy](http://www.ftc.gov/energy). (PIN W10900099 Rev. A)

\*\*\*\*\* End of Invoice \*\*\*\*\*

Item # 623777 Model # WRT314TFDW  
 Whirlpool 14.3-cu ft Top-Freezer Refrigerator  
 (White)

1221 Ratings  
 ★★★★★  
 4.5 Average

93%  
 Recommend this product

Community Q&A  
 View Now

+5 More

View Price In Cart  
 Ends 02/05/2020

Hurry! Low in stock.

- Access ice when the optional icemaker is professionally installed
- Keep noise down in the kitchen with quiet cooling
- Keep items ice cold with freezer temperature controls

Manufacturer Color/Finish

White



Lowe's Has You Covered  
 We're here to help with extended warranty protection, assembly, haul away and more.  
 Add to cart to view availability.

Name: PUBLIC WORKS  
 Address: ATTN: PUBLIC WORKS  
 65 LAWRENCEVILLE ST  
 NORCROSS GA 30071  
 Account #: XXXXXX1323  
 Store: 1507

Invoice Date: 17-AUG-18  
 Due Date: 15-SEP-18  
 Invoice #: 901836  
 P.O.#/Job Name: 27611  
 Buyer Name: RUTLEDGE MARVIN

Cust Agree #: 000000000

SKU	Description	Quantity	Unit	Price	Ext. Price
0000000001556	PROMOTIONAL DISCOUNT	1	EA	0.00	0.00
70	APPL				
0000000005868	FR 3.1 CU FT COMP REF	1	EA	208.06	208.06
0000000007308	SHARP 0.7-CU FT WHITE	1	EA	56.99	56.99
90	CTP				

Mini Freezer

Subtotal: 265.05

Tax: 0.00  
 Total: 265.05  
 Adjustments: 0.00  
 Payments Applied: (265.05)  
 Total Amt Outstanding: 0.00

\*\*\*\*\* End of Invoice \*\*\*\*\*

U.S. Government Federal law prohibits removal of this label before consumer purchase.

# ENERGYGUIDE

Refrigerator-Freezer  
 • Automatic Defrost  
 • Top Mounted Freezer  
 • Without Through-The-Door-Ice Service

Whirlpool Corporation  
 Model: WRT314TFD<sup>®</sup>  
 Capacity: 14.3 Cubic Feet

Compare ONLY to other labels with yellow numbers.  
 Labels with yellow numbers are based on the same test procedures.

Estimated Yearly Energy Cost  
**\$45**

Cost range not available

**373 kWh**  
 Estimated Yearly Electricity Use

\* Your cost will depend on your utility rates and use.  
 \* Cost range based only on models of similar capacity with automatic defrost, top mounted freezer, and without through-door-ice service.  
 \* Estimated energy cost based on a national average electricity cost of 12 cents per kWh.

ftc.gov/energy (P/N W10729835 Rev. A)

Canada

# ENERGYGUIDE

Energy consumption / Consommation énergétique

**332 kWh**  
 per year / par année  
 This model / Ce modèle

278 kWh 442 kWh

Uses least energy / Consomme le moins d'énergie  
**Type 3**  
 12.5 to 14.4  
 volume in ft<sup>3</sup> / volume en pi<sup>3</sup>  
 Modèles similaires comparés

Uses most energy / Consomme le plus d'énergie

Similar models compared  
 Model number WRT314TFD<sup>®</sup>  
 Numéro du modèle

Removal of this label before first retail purchase is an offense (S.C. 1992, c.36).  
 Enlever cette étiquette avant le premier achat au détail constitue une violation de la loi (S.C. 1992, C.36).

W10729835 Rev. A

Frigidaire 3.1-cu ft Freestanding Mini Fridge Freezer Compartment (Silver Mist) ⓘ This item is no longer available

115 Ratings  
 4.2 Average

82% Recommend this product

Community Q&A  
 View Now

+5 More

Name: CITY OF NORCROSS  
 Address: ATTN TERRI  
 65 LAWRENCEVILLE ST  
 NORCROSS GA 30071  
 Account #: XXXXXX4852  
 Store: 1507

Invoice Date: 31-JAN-18  
 Due Date: 15-MAR-18  
 Invoice #: 929263  
 P.O.#/Job Name: 101  
 Buyer Name: GROGAN WILLIAM

Cust Agree #: 000000000

SKU	Description	Quantity	Unit	Price	Ext. Price
0000000001556	PROMOTIONAL DISCOUNT	1	EA	0.00	0.00
70	APPT.				
0000000007441	GE 1.1-CU FT CTP MWO	1	EA	95.95	95.95
71	JES1				

*Microwave*

Subtotal: 95.95

Tax: 0.00

Total: 95.95

Adjustments: 0.00

Payments Applied: (95.95)

Total Amt Outstanding: 0.00

\*\*\*\*\* End of Invoice \*

Item # 744171 Model # JES1145SHSS

GE 1.1-cu ft 950 Countertop Microwave (Stainless Steel)

2267 Ratings  
 ★★★★★  
 4.4 Average

91%  
 Recommend this product

Community Q&A  
 View Now



**\$109.00**

- 1.1 cu ft capacity accommodates a variety of dish sizes and 950 watts of cooking power provides efficient cooking results
- Convenience cooking controls - operating made quick and easy
- Weight and time defrost - simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level ...

Manufacturer Color/Finish

Stainless Steel



Lowe's Has You Covered

We're here to help with extended warranty protection, assembly, haul away and more. Add to cart to view availability.

Capacity (Cu. Feet)	1.1
Manufacturer Color/Finish	Stainless steel
Turntable	✓
Convection Oven	✗
Inverter Technology	✗
Sensor Cook	✗
Number of One-Touch Cook Options	6
Control Type	Electronic touch pad
Lowe's Exclusive	✗
Height (Inches)	12
Width (Inches)	20.3125
Depth (Inches)	15.625
Non-Stick Interior Type	Standard
Steam Cook	✗
Grilling Option	✗
Melting/Softening Option	✗
Kids' Menu Option	✗
Defrost	✓
Reheat	✗
Child Safety Locks	✓
Number of Racks	0
Door Swing	Left swing

Delay Start	✗
Handle Color	Stainless steel
Depth with Door Open (Inches)	29.8125
Turntable Diameter (Inches)	12.75
Manufacturer's Warranty (Parts)	1-year limited
Manufacturer's Warranty (Labor)	1-year limited
Sub-Brand	N/A
Appliance Color/Finish	Stainless steel
Series Name	N/A
Power Level(s)	10
Interior Light(s) Type	Standard (incandescent)
Fingerprint-Resistant	✗
Trim Kit Included	✗
Compatible Trim Kit Model(s)	N/A
Microwave Size	Small (<1.2-cu ft)
CA Residents: Prop 65 Warning(s)	Yes
Control Location	Right
Safety Listing	UL safety listing
Compatible Trim Kit Available	✗
UNSPSC	52141500
Wattage	950
Commercial/Residential	Residential

# 10. GOVERNMENT LED STREET LIGHTS

## DESCRIPTION OF MEASURE

The local government has an established plan to retrofit existing street lights maintained by the local government with LED lamps. At a minimum, 25 percent of the existing street lights in the jurisdiction must have LED lighting when documents are submitted for Green Communities Certification. Additionally, a plan must exist that ensures all street lights maintained by the local government will be retrofitted within four years. If a local government does not own and maintain all of its street lights, the requirements of this measure can be met if the local government can demonstrate that the street lights within the boundaries of its jurisdiction are being retrofitted through a partnership with another entity (Georgia Power, a local co-op, or other).

LEDs must be Dark Sky-compliant and have the appropriate color temperature for the area's use. For example, warm light LEDs between 2700 – 3000 Kelvin in residential areas. LEDs are brighter than older outdoor lighting technologies and thinning, or “delamping,” of retrofitted areas should be implemented to control for glare and light pollution. Newly-installed street light structures should be designed and placed to reduce glare and spill-over (or “trespass”) onto private property.

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the policy to install only LED lamps in street lights with date of adoption
- Total number of street lights and number of street lights that have already been retrofitted
- A description of the plan to retrofit existing street lights with LED lamps within 4 years

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide documentation demonstrating that the local government has retrofitted all existing street lights in the jurisdiction with LED lighting. If possible, please provide any information the local government has on the energy savings, reduction in greenhouse gas emissions, or other measurable benefits achieved as a result of these retrofits.

## Response

Norcross Power is committed to retrofitting street lights but will not cross the 25% threshold until the end of 2020.

# 11. GOVERNMENT “LIGHTS OUT/POWER DOWN” POLICY

## DESCRIPTION OF MEASURE

The local government has an ordinance or policy to reduce energy use in its buildings from lighting and electronics when not in use. This may include adopting building management policies that require turning off all nonemergency lighting and electronics after hours, and/or educating employees on turning off lighting and electronics when not in use and at night.

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the local government policy or ordinance with date of adoption
- A description of the procedure to ensure all employees know about the policy

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a description of how the local government is actively implementing the lights out/power down policy, including materials used to educate employees on the policy and any energy savings as a result of implementing the policy.

## OUR ACHIEVEMENTS

- Employees receive an annual email to remind them of the policy. Additionally, labels are printed and placed on light switches.
- Some office spaces, common areas, and restrooms have been retrofitted with motion sensor light switches.

## Erica Madsen

---

**From:** Melissa Zeigler  
**Sent:** Wednesday, May 1, 2019 8:52 AM  
**To:** cityofnorcrossemployees@norcrossga.net  
**Subject:** Lights Out / Power Down Policy  
**Attachments:** Lights out-power down policy 2015.pdf

Good morning,

In 2010, the City of Norcross adopted the attached "Lights Out/Power Down Policy". This serves as a friendly reminder that our City is concerned about our energy efficiency and requests your cooperation in ensuring that the attached measures are being implemented. Please review the attached policy as a reminder of our commitments. Thank you!

***"One of the simplest ways to reduce energy consumption is by ensuring that non-emergency lights and office equipment are turned off or powered down when not in use".***



## **CITY OF NORCROSS LIGHTS OUT/POWER DOWN POLICY**

The City of Norcross is making a special effort to reduce yearly utility costs for the city buildings and other activities that use energy. Our goal is to reduce energy usage over the next five years by 10% from the 2010 baseline. One of the simplest ways to reduce energy consumption is by ensuring that non-emergency lights and office equipment are turned off or powered down when not in use. These simple behavioral changes have been shown to have a dramatic impact on electricity usage. Thus, we are asking that all City departments and agencies implement the following Lights Out/Power Down Policy for all City facilities:

- Turn off lights in any space, i.e. offices, conference rooms, workrooms, etc. when the space is not being used. In particular, ensure that all office and work area lights are turned off at night, weekends and holidays. All department heads and building managers should make certain that this practice is monitored and that staff is designated to turn off lights at the end of the work day.
- Shut down power on personal computers, printers, monitors, copiers and miscellaneous office equipment at the end of each work day. Ensure that all such equipment is turned off on weekends and holidays.
- Do not plug in seldom used equipment items, i.e. paper shredders, pencil sharpeners, electric staplers, punch machines, televisions, etc. – except when ready to use. As an alternative, use switch controlled power strips for such equipment, and maintain in off position until ready to use.
- Discontinue operations of all interior decorative building lighting and discontinue use of any exterior lighting of buildings not needed for identification, safety or security purposes (excluding flag poles and monuments/memorials).
- If your office or work area is on the perimeter of a building, utilize natural light as much as possible. On sunny days you may be able to see without electric lights.
- Although not a direct result of this policy, we also require that you remove all electric space heaters from offices and work areas. These devices are huge energy consumers that frequently overload circuits, and create safety hazards.

This Policy is one of the first steps in making the City of Norcross an energy efficient, green community about which we can be proud and also will assist us in applying for the Green Community Award from ARC. Please adhere to the above policy and if you have questions, contact Jeff Mueller.

Rudolph Smith  
City Manager  
Effective April 1, 2010

# 12. GOVERNMENT COOL ROOF

## DESCRIPTION OF MEASURE

The local government has a cool roof located on government property and provides education on site. A cool roof is defined as a roof that uses materials having a specified Solar Reflectance Index (SRI) for at least 75 percent of the roof surface. The product installed must be ENERGY STAR certified. The educational materials can be pamphlets or plaques that explain the benefits of a cool roof.

## DOCUMENTATION REQUIRED FOR CREDIT

- Description of project including documentation of the type of cool roof material used and demonstration that it is ENERGY STAR certified
- Submission of completed project photos, education materials available on site and the location of education materials on site

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the number of local government owned buildings that have cool roofs. For each building, provide the address (including street and zip code) and any additional information available regarding the roof, including size, material used, etc. Additionally, provide a copy of the education materials available on site and the location of education materials on site for at least one of the cool roofs. If possible, please provide any information the local government has on the energy savings or other measurable benefits achieved as a result of installing each cool roof.

## OUR ACHIEVEMENTS

- Norcross City Hall – 65 Lawrenceville St. Norcross, GA 30071
  - Materials used for the Cool Roof are attached. Cool roof was updated June 2019.
  - The location of the educational flyer is located on the first floor of City Hall in the display window.
  - In comparison to the Summer 2017 energy consumption bills to the Summer 2019 bills, there is an approximately 5,000 kWh decrease in energy consumption.

## Norcross City Hall – Cool Roof

65 Lawrenceville St. Norcross, GA 30032

Size of Roof: appx. 9,541 sq. ft.

### Materials Used:

ALDOCOAT 395 is a one-part silicone elastomeric coating specifically designed for use in roofing applications. Once cured this liquid applied silicone coating provides a durable, seamless, flexible, waterproof membrane that resists lateral movement, shear and will allow for normal expansion and contraction. Mil for mil, ALDOCOAT 395 provides greater UV protection than similar coatings and offers increased resistance to moisture penetration. ALDOCOAT 395 provides excellent long term protection through exceptional weatherability properties.

### Recommended Uses

ALDOCOAT 395 was specifically developed as a protective coating for metal roofs, single ply membranes, granulated modified bitumen and sprayed-in-place polyurethane foam roofing. ALDOCOAT 395 is also used as a top coat over [ALDOCOAT 384](#) Polyurethane in membrane restorations. With excellent adhesion to all substrates and exceptional durability, ALDOCOAT 395 is proven to provide excellent solar reflectivity, UV protection and long-term waterproofing performance, including silicone spray waterproofing.

2. <https://www.aldoproducts.com/products/aldocoat-395-silicone/>

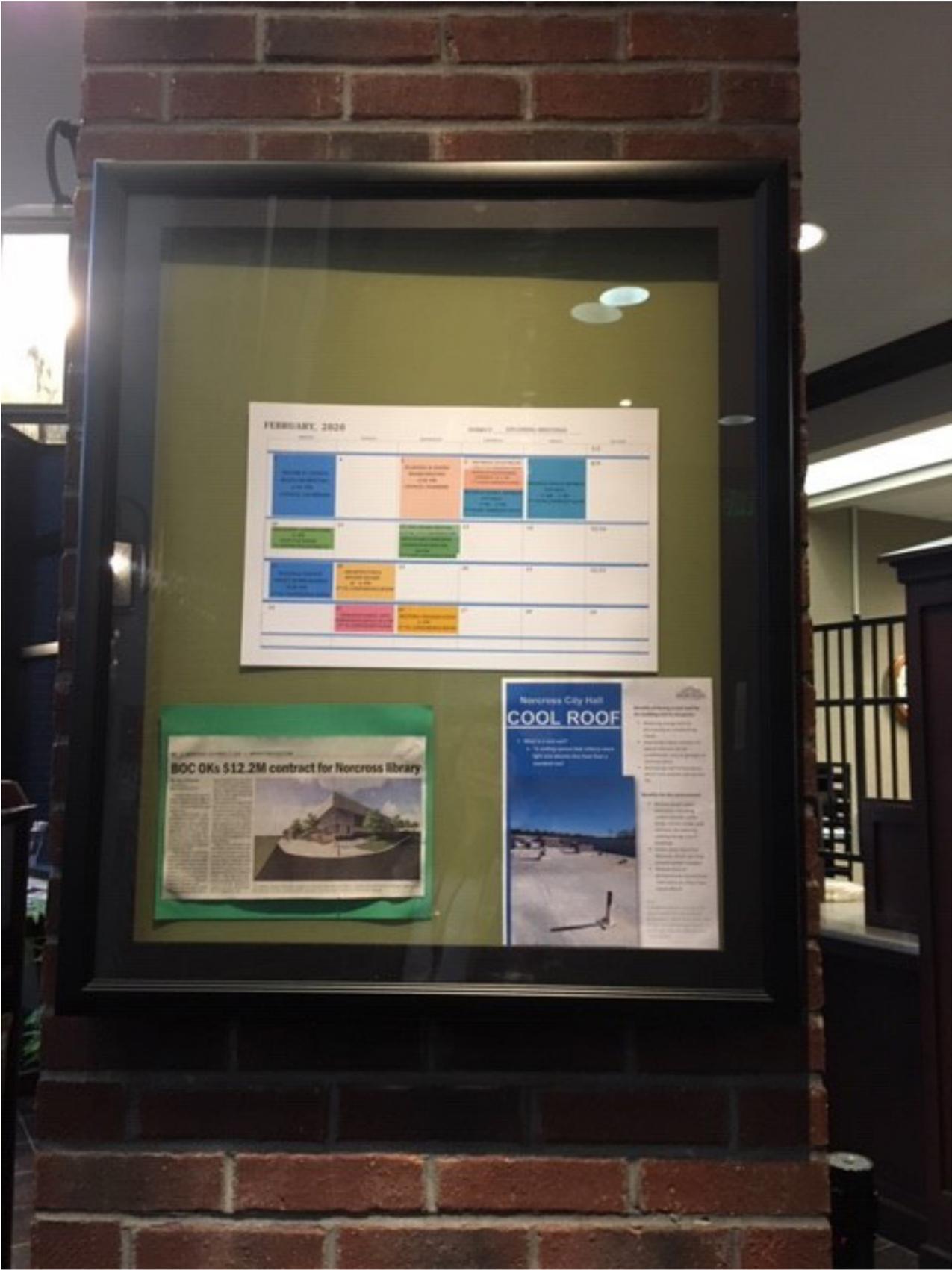
**This is the single top white silicone coating applied over the aluminum polyurethane coatings.**

## ENERGY STAR Portfolio Manager City Hall Main Electric Meter Readings 2017

<input type="checkbox"/>	4/4/2017	5/4/2017	45,760	5,082.27	<input type="checkbox"/>	<input type="checkbox"/>	107.6		3/22/2018 Data Import
<input type="checkbox"/>	5/4/2017	6/4/2017	51,600	5,473.58	<input type="checkbox"/>	<input type="checkbox"/>	123.6		3/22/2018 Data Import
<input type="checkbox"/>	6/4/2017	7/4/2017	47,040	5,148.65	<input type="checkbox"/>	<input type="checkbox"/>	118.72		3/22/2018 Data Import
<input type="checkbox"/>	7/4/2017	8/4/2017	50,960	5,398.94	<input checked="" type="checkbox"/>	<input type="checkbox"/>	119.2		3/22/2018 Data Import
<input type="checkbox"/>	8/4/2017	9/4/2017	54,880	5,649.23	<input type="checkbox"/>	<input type="checkbox"/>	119.68		3/22/2018 Data Import

## ENERGY STAR Portfolio Manager City Hall Main Electric Meter Readings 2019

<input type="checkbox"/>	4/4/2019	5/4/2019	41,040	2,897.95	<input type="checkbox"/>	<input type="checkbox"/>	103.2		5/7/2020 CityofNorcro:
<input type="checkbox"/>	5/4/2019	6/4/2019	46,400	3,204.65	<input type="checkbox"/>	<input type="checkbox"/>	111.2	1,017.76	5/7/2020 CityofNorcro:
<input type="checkbox"/>	6/4/2019	7/4/2019	48,560	3,328.25	<input type="checkbox"/>	<input type="checkbox"/>	116	1,017.76	5/7/2020 CityofNorcro:



# Norcross City Hall

# COOL ROOF

- What is a cool roof?
  - “A roofing system that reflects more light and absorbs less heat than a standard roof.



## Benefits of having a cool roof for the building and its occupants:

- Reducing energy bills by decreasing air conditioning needs
- Improving indoor comfort for spaces that are not air conditioned, such as garages or covered patios
- Decreasing roof temperature, which may extend roof service life.

## Benefits for the environment:

- Reduce power plant emissions, including carbon dioxide, sulfur oxide, nitrous oxide, and mercury, by reducing cooling energy use in buildings.
- Lower peak electricity demand, which can help prevent power outages
- Reduce local air temperatures (sometimes referred to as urban heat island effect)

### Note:

A standard roof can raise up to 90 degrees above the prevailing air temperature. When dense cities with mainly dark colored roofs absorb so much heat, they are referred to as “heat islands”

# Safety Data Sheet

## ALDOCOAT 384 Polyurethane Aluminum

SDS Revision Date:

03/10/2018



### 1. Identification

#### 1.1. Product identifier

**Product Identity** ALDOCOAT 384 Polyurethane Aluminum

**Alternate Names** ALDOCOAT 384 Polyurethane Aluminum

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** For professional use only. See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Aldo Products Company, Inc.  
1320 Litton Drive  
Salisbury, NC 28147

#### Emergency

**24 hour Emergency Telephone No.** 800-535-5053

**Customer Service: Aldo Products Company, Inc.** 704-932-3054

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Acute Tox. 4;H332	Harmful if inhaled.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Carc. 2;H351	Suspected of causing cancer.
STOT SE 3;H335	May cause respiratory irritation.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: ( hearing organs)
Flam. Liq. 3;H225	Highly Flammable liquid and vapor.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



## ALDOCOAT 384 POLYURETHANE ALUMINUM

### PRODUCT DESCRIPTION:

**ALDOCOAT 384** is a technologically advanced, high solids, single component, moisture cure polyurethane elastomer coating uniquely formulated for the protection of low slope roofing systems, including EPDM, TPO, PVC, modified bitumen and BUR surfaces. Once cured this liquid applied moisture-curing polymer provides a durable, seamless, flexible, waterproof membrane that resists lateral movement, shear and will allow for normal expansion and contraction. Mil for mil, **ALDOCOAT 384** provides greater adhesion and increased protection than similar polyurethane coatings. This product also offers increased resistance to moisture penetration through its lower moisture vapor permeability values. Due to its moisture-cure properties, a longer production window can be achieved during application than acrylic coatings.

### RECOMMENDED USES:

**ALDOCOAT 384** was specifically developed as a protective coating (base and finish coat) for sprayed-in-place polyurethane foam roofing. With excellent adhesion, **ALDOCOAT 384** may be used as a base coat for protection of conventional commercial/industrial surfaces such as, but not limited to, TPO and EPDM single ply membranes, modified bitumen, smooth BUR and the lining and sealing of interior gutter systems.

### GENERAL SURFACE PREP AND APPLICATION INSTRUCTIONS:

**ALDOCOAT 384** may be applied by medium nap rollers, soft brushes or conventional airless spray equipment. Prior to product application, pressure all surfaces to remove all dirt and debris that may impede adhesion. Apply **ALDOCOAT 384** only to clean, dry, sound surfaces free of loose particles or other foreign matter. Successive and/or top coats **MUST** be applied to the base or intermediate coats within 48 hours to insure proper adhesion. Apply **ALDOCOAT 384** at the minimum rate of 1.25 gallon per 100 sq. ft. per coat. Minimum dry mil thickness shall be 12.5 DFT for the base coat and 12.5 DFT for a top coat. Do not apply if ambient temperature falls below 50° F. **PRODUCT APPLICATION SHOULD BE SUSPENDED IMMEDIATELY AND OUR TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS BEING OBTAINED ARE LESS THAN DESIRABLE.**

### STORAGE AND HANDLING:

AVOID MOISTURE CONTAMINATION IN SEALED CONTAINERS. This product is a moisture cure chemistry that is sensitive to moisture contamination and exposure to heat and direct light sunlight. Store in an interior, dry environment at temperatures between 40°F-85° F. Avoid container exposure to water. Refer to the SDS for more health and safety information.

### TYPICAL PHYSICAL PROPERTIES

#### TOTAL SOLIDS:

79% by weight ASTM D1644  
68% by volume ASTM D2697

#### WEIGHT PER GALLON:

9.0 lb per gallon ± 0.2

#### FLASH POINT: 80° F

#### CLEAN UP: Xylene

#### SHELF LIFE: 90 days @ 40°- 90° F

#### VISCOSITY: 3,000±1000 cP

#### ELONGATION: 350% ± 50

#### HARDNESS: 69 Shore A

#### TENSILE STRENGTH: 1000 psi ± 50

#### PERMEABILITY: .02 perm inch

#### SERVICE TEMPERATURE:

-50° TO 200° F

#### WATER ABSORPTION: 2.4%

#### ADHESION: Exceeds Tensile

#### CURE TIMES:

DRY TO TOUCH: 6 Hours  
TACK FREE: 8- 12 Hours  
RECOAT: 12- 16 Hours

# 13. GOVERNMENT OR COMMUNITY LED LIGHT BULB PROGRAM

## DESCRIPTION OF MEASURE

A local government has a program in place to encourage the transition from incandescent, compact fluorescent (CFL), and fluorescent light bulbs to more energy efficient light emitting diode (LED) light bulbs. This program could exist as the local government replacing inefficient light bulbs in its facilities with LED light bulbs, offering incentives (i.e. coupons or LED light bulb giveaways) to residents to encourage the replacement of residential inefficient light bulbs, or another program developed by the local government. The local government can also receive points for this measure if a partnership is created with its energy utility to offer the program to citizens.

## DOCUMENTATION REQUIRED FOR CREDIT

Documentation describing the program's effectiveness, budget, length of program, and promotion

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the local government's LED program, including any program changes since the local government's most recent Green Communities certification, the current program budget, energy savings from the program, the education and outreach materials used, if additional LED initiatives have been implemented, and any other beneficial information on the implementation of LED initiatives.

## OUR ACHIEVEMENTS

- Government facilities are replacing all burnt out fluorescent light bulbs with LED bulbs.

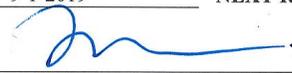


## POLICY AND PROCEDURE

EFFECTIVE DATE: 1/01/2015

POLICY TITLE: LED Light Bulb Policy

REVISION DATE: 9-1-2019      NEXT REVIEW DATE: 1/01/2021

APPROVED BY:   
*Director of Public Works*

**PURPOSE OF POLICY:**

The City of Norcross began switching out lights to LEDs in all City owned buildings in 2015. The LED project is continuing and is completed in phases as current bulbs burn out.

The goal is to eliminate all City owned buildings of incandescent, compact fluorescent, and fluorescent light bulbs, replacing them with LED's. This will lower energy cost, provide more lighting, and produce an annual savings of about 330kw hours per unit. Saving the City an estimated \$1,000 - \$1,500 per-fixture per-year on repair cost while enhancing the environment by supporting sustainability practices. The project begin in January 2015. As of Aug. 2019, we have replaced 35% of City Hall office lights. Our Lively Ave Maintenance facility is currently at 50% replacement.

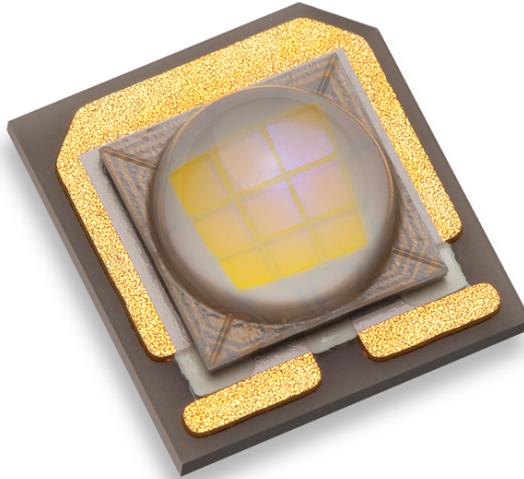
 Public Works, Utilities & Parks <i>Department Procedures</i>		<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Effective Date</td> <td style="width: 50%;">Number</td> </tr> <tr> <td style="text-align: center;">1/5/2015</td> <td style="text-align: center;">15-002</td> </tr> </table>	Effective Date	Number	1/5/2015	15-002
Effective Date	Number					
1/5/2015	15-002					
Subject	LED Light Bulb Policy	Pages				
		1				
Reference(s)	Date of Issue					
Department of Public Works, Utilities & Parks	1/5/2015					
Amends/Rescinds/New	Distributing Authority					
Amends	Craig A. Mims, Director 					
<b>Security Light - LED Light Bulb Policy</b>						
<p>Effective January 5, 2015, all security light fixtures that require bulbs that contain mercury will be replaced with LED fixtures when failure occurs, or there is need for repair.</p> <p>By implementing this policy, the Department of Public Works, Utilities &amp; Parks will be able to phase out all security light mercury bulbs/fixtures in a timely and cost efficient manner. The goal will be to rid the environment of mercury, while replacing with LED fixtures which will provide more light and use less energy. Because LED patterns are directed toward the ground, less light pollution will be emitted into the sky as well. The LED fixtures will produce an annual savings of nearly 330kWh per unit. It is expected that combined with long-life photocontrols, LED bulbs/fixtures will save in repairs costs as the fixtures are known to last three to four times longer than a typical HID light fixture. The Department expects to save \$1500 per fixture over a ten year period, while also helping the environment.</p>						

# Top 8 Things You Didn't Know About LEDs

JUNE 4, 2013



[Home](#) » [Top 8 Things You Didn't Know About LEDs](#)



Using funding from the Energy Department, Philips Lumileds developed the LUXEON S1000 -- a commercial LED product used in outdoor street and parking lot lighting. While small, this chip is the heart of the light and as of June 2012 was brighter than a 60-watt light bulb. | Photo courtesy of Philips Lumileds.

This article is part of the *Energy.gov* series highlighting the "Top Things You Didn't Know About..." Be sure to check back for more entries soon.

8. A **light-emitting diode**, or LED, is a type of solid-state lighting that uses a semiconductor to convert electricity into light. Today's LED bulbs can be six-seven times more energy efficient than conventional incandescent lights and cut energy use by more than 80 percent.
7. Good-quality LED bulbs can have a useful life of 25,000 hours or more -- meaning they can last more than 25 times longer than traditional light bulbs. That is a life of more than three years if run 24 hours a day, seven days a week.
6. Unlike incandescent bulbs -- which release 90 percent of their energy as heat -- LEDs use energy far more efficiently with little wasted heat.
5. From traffic lights and vehicle brake lights to TVs and display cases, LEDs are used in a wide range of applications because of their unique characteristics, which include compact size, ease of maintenance, resistance to breakage, and the ability to focus the light in a single direction instead of having it go every which way.
4. LEDs contain no mercury, and a recent [Energy Department study](#) determined that LEDs have a much smaller environmental impact than incandescent bulbs. They also have an edge over compact fluorescent lights (CFLs) that's expected to grow over the next few years as LED technology continues its steady improvement.
3. Since the Energy Department started funding [solid-state lighting R&D](#) in 2000, these projects have received 58 patents. Some of the most successful projects include developing new ways to use materials, extract more light, and solve the underlying technical challenges. Most recently, the Energy Department announced [five new projects](#) that will focus on cutting costs by improving manufacturing equipment and processes.
2. The first visible-spectrum LED was invented by Nick Holonyak, Jr., while working for GE in 1962. Since then, the technology has rapidly advanced and costs have dropped tremendously, making LEDs a viable lighting solution. Between 2011 and 2012, global sales of LED replacement bulbs increased by 22 percent while the cost of a 60-watt equivalent LED bulb fell by nearly 40 percent. By 2030, it's estimated that LEDs will account for 75 percent of all lighting sales.
1. In 2012, about **49 million LEDs** were installed in the U.S. -- saving about \$675 million in annual energy costs. Switching entirely to LED lights over the next **two decades** could save the U.S. \$250 billion in energy costs, reduce electricity consumption for lighting by nearly 50 percent and avoid 1,800 million metric tons of carbon emissions.

More on lighting:

Want to know more about the different lighting options available? Check out our [Energy Saver lighting topic page](#) to learn about lighting choices that will save you money, when to turn off your lights and more.



REBECCA MATULKA

Served as a digital communications specialist for the Energy Department.

MORE BY THIS AUTHOR

# 14. COMMUNITY ENERGY CODES

## DESCRIPTION OF MEASURE

The local government has a program to enforce compliance with the Georgia State Energy Code for Buildings. The Georgia Energy Code is the International Energy Conservation Code (IECC) as adopted and amended by the Department of Community Affairs. Enforcement of compliance means the active inspection of all residential and commercial construction projects that fall within the scope of the IECC. Active inspections are defined as the physical inspection by the local government of any construction project falling within the 'Scope' of the Georgia State Energy Code for Buildings. The physical inspection shall encompass all items required to show compliance with the Georgia Energy Code. Only conducting an insulation inspection or simply accepting the REScheck/COMcheck checklists completed by builders shall not suffice as an active inspection program for compliance with the IECC.

## DOCUMENTATION REQUIRED FOR CREDIT

A copy of the policy stating the local government will enforce the most recent version of the International Energy Conservation Code as adopted and amended by DCA

A copy of the documents used by the inspector to ensure the commercial and residential energy codes are followed including a checklist of what is inspected

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the policy stating that the local government will enforce the most recent version of the International Energy Conservation Code as adopted and amended by DCA. Provide a copy of the most recent documents used by inspectors to ensure the commercial and residential energy codes are followed including a checklist of what is inspected.

## OUR ACHIEVEMENTS

- Updated construction codes in the June 2019 UDO and included an International Energy Conservation Code in Sect. 101-10.A.8
- Updated the energy as built certification form to reference State's adoption of 2015 IECC.



CITY OF NORCROSS INTERNATIONAL ENERGY CONSERVATION BUILDER'S AS-BUILT CERTIFICATION

**NOTICE:** This form must be completed, signed and submitted to the building department before a certificate of occupancy shall be issued.

Building Permit Number: \_\_\_\_\_ Date: \_\_\_\_\_

Job Site Address: \_\_\_\_\_

The state has mandated as the International Energy Conservation Code, 2006 Edition. This Code contains requirements for energy conservation and regulates the design, erection, construction, alteration, and renovation of buildings. Compliance with this code by designers and builders is mandatory.

I DO HEREBY CONFIRM THAT I HAVE INSPECTED THE PERMITTED STRUCTURE AT THE ABOVE JOB SITE ADDRESS AND HEREBY CERTIFY THAT THE STRUCTURE IS, IN ALL ASPECTS, CONSTRUCTED IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE – CURRENT EDITION.

COMPANY NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

Before me, the undersigned notary public, this day, personally, Appeared \_\_\_\_\_ to me known, who being duly sworn according to law, deposes the following:

Subscribed and sworn to before me this \_\_\_\_\_ day Of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

Revised 02/2010

**Sec. 103-56. Adopted.**

- (a) The following technical and building codes, the latest edition of each as adopted and amended by the Georgia Department of Community Affairs, are adopted by reference and shall be enforced in the city:
- (1) International Building Code (IBC), to include chapter 1, Administration.
  - (2) International Fuel Gas Code (IFGC), to include chapter 1, Administration.
  - (3) International Mechanical Code (IMC), to include chapter 1, Administration.
  - (4) International Plumbing Code (IPC), to include chapter 1, Administration.
  - (5) National Electrical Code (NEC).
  - (6) International Fire Code (IFC).
  - (7) International Energy Conservation Code (IECC), to include chapter 1, Administration.
  - (8) International Residential Code (IRC), to include chapter 1, Administration.
  - (9) International Property Maintenance Code (IPMC).
  - (10) International Existing Building Code (IEBC).
  - (11) Add appendix (G) from the International Residential Code/Swimming Pools, Spas, and Hot Tubs.
  - (12) Add chapter 31 from the International Building Code/Special Construction.
- (b) The codes provided in subsection (a) of this section means such codes as they exist on January 18, 2008, provided that any such code may hereafter be amended or revised as provided in O.C.G.A. § 8-2-23(a).

(Code 1979, §§ 4-2-1, 8-2-1--8-2-10; Code 1998, § 86-31; Ord. No. 02-2001, § 86-31, 3-5-2001; Ord. No. 06-2008, 3-3-2008; Ord. No. 18-2008, part 2, 7-7-2008)

City of Norcross International Energy Conservation Builder's As-Built Certification form follows:

The City of Norcross requires builders to sign an affidavit when they apply for a building permit. The form requires builders to consider how they will comply with the energy codes before the building permit is obtained. The City of Norcross Building Official conducts a site visit to inspect the property. For more information on their process, please visit the City of Norcross Community Development Department web page at <http://www.norcrossga.net/DocumentCenter/View/55>.

CHAPTER 300 – Buildings & Building Regulations

**ARTICLE III. – Construction Codes<sup>1</sup>**

**Sec. 303-1. Purpose**

The purpose of this section is to provide for the administration and enforcement of the Georgia State Minimum Standard Codes as heretofore adopted. Hereinafter all the Codes heretofore adopted shall be referred to as the technical codes.

**Sec. 303-2. Adopted**

A. The following codes, as adopted by the Georgia Department of Community Affairs, are adopted by reference as ordinances of the City as fully as though set out at length herein. Copies of the codes listed below shall be maintained on file in the office of the City Clerk where it shall be available for inspection by the public:

1. International Building Code (IBC)
2. International Residential Code (IRC)
3. International Fire Code (IFC)
4. International Plumbing Code (IPC)
5. International Mechanical Code (IMC)
6. International Fuel Gas Code (IFGC)
7. National Electrical Code (NEC)
8. International Energy Conservation Code (IECC)
9. International Swimming Pool and Spa Code

B. The codes provided in subsection (A) of this section means such codes as they are currently adopted by DCA, provided that any such code may hereafter be amended or revised as provided in O.C.G.A. § 8-2-23(a).

**Sec. 303-3. References to Officials in Adopted Technical Codes**

Where reference is made to the duties of certain officials named within the technical codes which are adopted by reference in this chapter, then that designated official of the city, who has duties corresponding to those of the named official in said technical code, shall be deemed to be the responsible official insofar as enforcing the provisions of that technical code are concerned.

**Sec. 303-4. Code Remedial**

**A. Generally**

These codes are hereby declared to be remedial, and shall be construed to secure the beneficial interests and purposes thereof, which are public safety, health, and general welfare, through structural strength, stability, sanitation, adequate light and ventilation, and safety to life and property from fire and other hazards attributed to the built environment including alteration, repair, removal, demolition, use and occupancy of buildings, structures, or

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<sup>1</sup> State Law reference— Authority to adopt technical codes, Ga. Const. art. IX, § II, ¶ III(a)(12); minimum state construction codes, O.C.G.A. § 8-2-25; enforcement of minimum state construction codes, O.C.G.A. § 8-2-26.

**C. Consistency with Comprehensive Plan character areas**

Any applicant seeking to rezone property to a classification that is inconsistent with the adopted Comprehensive Plan must first obtain approval of an amendment to the comprehensive plan from the Mayor and City Council, following the procedures in this UDO.

**D. Amendments to the Comprehensive Plan**

The Comprehensive Plan shall be reviewed and updated or amended (as appropriate) according to a schedule approved by the Mayor and City Council, and as required by the DCA in compliance with the Rules of DCA, Chapter 110-12-1, Minimum Standards and Procedures for Local Comprehensive Planning. However, exceptions may be granted by the Mayor and City Council in between the regular review and update cycle in cases of demonstrated hardship, or in cases of large-scale developments that may provide special economic benefits to the community. Requests for exceptions shall be subject to approval by Mayor and City Council during a regular meeting.

**Sec. 101-8. Duties to administer, interpret and enforce this UDO**

- A. Unless otherwise specified in any article, chapter, or section of this UDO, it shall be the duty of the Community Development Director of the City of Norcross to administer, interpret, and enforce this UDO.
- B. The Community Development Director shall also enforce all adopted codes relating to ADA Compliance, as adopted by the State.
- C. It shall be the duty of the county fire marshal to enforce all State, County, and City fire codes.

**Sec. 101-9. Fees**

- A. Fees for permits and other approvals required under this UDO shall be established from time to time by resolution of the Mayor and Council.
- B. Application and plan review fees shall be submitted with the application, and upon acceptance of said submission for review and consideration, shall not be refundable. Failure to pay a required application fee shall cause the application to be returned to the applicant without acceptance for review or consideration by the City.
- C. Permit fees, if any, shall be submitted as a prerequisite to issuance of the permit.
- D. Prior to approval of a Final Plat or Certificate of Occupancy, the applicant shall pay to the City such fees and performance and maintenance bonds as shall be required by this UDO or established by the City Council.

**Sec. 101-10. Adoption of Certain Codes**

**A. Adoption of technical building and construction codes**

It is the intent of the City to enforce the latest editions of the following state minimum standard codes, as adopted and amended by the Georgia State Department of Community Affairs, including:

- 1. International Building Code;
- 2. International Residential Code for One- and Two-Family Dwellings;
- 3. International Fire Code;
- 4. International Plumbing Code;
- 5. International Mechanical Code;
- 6. International Fuel Gas Code;
- 7. National Electrical Code;

8. International Energy Conservation Code;
9. International Swimming Pool and Spa Code; and
10. International Existing Building Code.

**B. Georgia Accessibility Code Compliance**

In addition to the regulations of the UDO, the Georgia Accessibility Code for buildings and facilities shall also apply. In the case of conflict between the UDO and the Georgia Accessibility Code, the more stringent provisions will govern.

# 15. COMMUNITY OUTDOOR LIGHTING EFFICIENCY

## DESCRIPTION OF MEASURE

A local government has an ordinance or policy in place to require or incentivize the efficient operation of outdoor lighting throughout the community by limiting misdirected, excessive, or unnecessary outdoor lighting on both public and private property. Possible policy requirements could be the adoption of a night sky ordinance that meets the guidelines of the International Dark Sky Association, the installation of photosensors on all non-residential outdoor light fixtures, the installation of timers with seasonal schedules to control when lights turn on and off, and/or the efficient operation of outdoor lighting by facility managers. Possible incentives could be rebates or reduced inspection fees for the installation of photosensors or timers. Photosensors are electronic control units that automatically adjust the output level of electric lights based on the amount of light detected.

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the policy or ordinance with date of adoption
- Description of how the ordinance exceeds typical lighting ordinances to reduce energy use

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the most recent version of the policy or ordinance and a description of any changes that have occurred since the local government's most recent Green Communities certification. Provide a description of how the policy has been implemented including an example property where the requirements were followed or incentives were used.

## Response

- An outdoor lighting "night sky" ordinance was adopted as part of the UDO in June 2019 and is attached. Policy was applied to the recent Mitchell Road Plaza (DVP2019-0012) property as part of their LDP approval process.
- The ordinance requires that any unnecessary glare be reduced by pointing outdoor lighting downwards and away from adjoining properties.
- The policy was applied to the recent Mitchell Road Plaza (DVP2019-0012) property as part of their LDP approval process.

CHAPTER 400 – Land Development

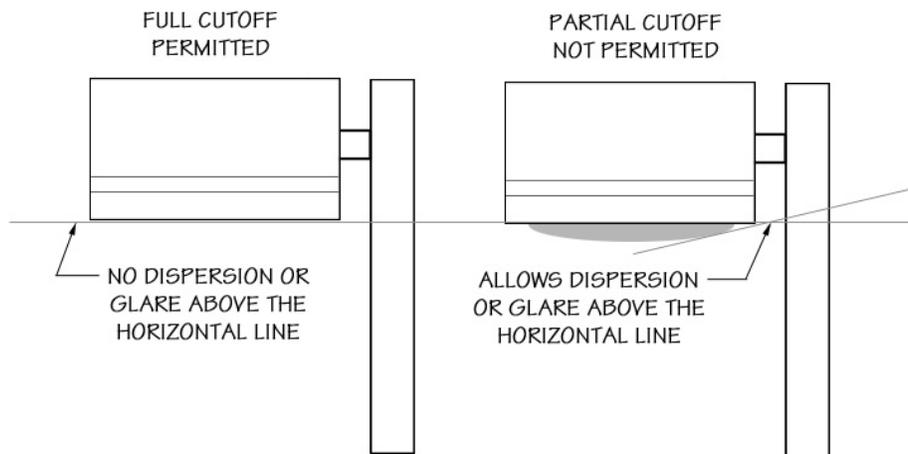
## ARTICLE VI. Outdoor Lighting Standards

### Sec. 406-1. Purpose

- A. These provisions are intended to control the use of outdoor artificial illuminating devices emitting rays into the night sky which have a detrimental effect on astronomical observations. It is the intention of this Article to encourage good lighting practices such that lighting systems are designed to reduce or eliminate light pollution, conserve energy and money, while increasing nighttime safety, utility, security and productivity.
- B. All areas containing outdoor lighting, including but not limited to floodlighting, security lighting, event lighting or the lighting of off-street parking and loading areas shall comply with the requirements of this Article.
- C. Furthermore, it is the intent of the regulations of this Article to establish lighting levels for various permitted uses that promote visual surveillance, reduce the potential for criminal activity and prevent the unnecessary glare of light on adjacent properties.

### Sec. 406-2. Lighting Standards, Configuration and Timing

- A. All exterior lighting shall be of full cutoff design and directed downward and away from adjoining property, with luminaires shielded to prevent unnecessary glare as identified below.



- B. Trees and shrubs shall not interfere with the distribution of exterior lighting necessary for security purposes as required by this Article.
- C. Security lighting above building entrances, parking lots, off-street loading areas and service entrances shall be metal halide, unless permitted otherwise during plan review, and incorporated in exterior areas going to and from the building(s) or use(s) within the site.
- D. All exterior fixtures, when used for security purposes, except for parking lot lighting, shall be illuminated from dusk until dawn, unless otherwise specifically designated on the site plan and as approved through the site plan process.

# 16. GOVERNMENT RENEWABLE ENERGY PROJECT

## DESCRIPTION OF MEASURE

The local government owns and operates a renewable energy project that is located on government property. This project must reduce the amount of nonrenewable energy used on site and be designed to educate citizens on the project. Renewable energy is defined as energy derived from sources that do not deplete natural resources (ex: solar, wind, or methane capture). Projects that involve the installation of photovoltaics must be at a minimum 5 KW. The demonstration project should be easily accessible to citizens and must provide educational materials on site about the renewable energy being used. The educational materials can be pamphlets or plaques that explain the benefits of renewable energy, the type of energy project, and how much renewable energy is produced.

## DOCUMENTATION REQUIRED FOR CREDIT

- Description of project
- Submission of completed project photos, education materials available for the community on site and the location of education materials on site

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the renewable energy project and a description of other renewable energy projects that have been implemented since the most recent Green Communities certification. For each project, provide information on the type of project, location address (including zip code), amount of renewable energy generated, a copy of the educational materials, and any other beneficial information the local government has tracked.

## RESPONSE

The City will not be pursuing points for this measure at this time.

# 17. GOVERNMENT GREEN ENERGY PURCHASING

## DESCRIPTION OF MEASURE

The local government is a US EPA Green Power Partner for the purchase or generation of green power that meets the guidelines of the partnership program. The US EPA Green Power Partnership is a voluntary program to support the purchase of green power. Partners commit to purchase a minimum amount of green power within one year of becoming a partner, based on the annual electricity usage of the organization or one facility (see the table below). Additionally, partners agree to submit annual reports on the organization's green power purchases and partnership status. It is important to note that a local government can become a Green Power Partner for purchasing renewable energy for the entire jurisdiction or for a single building within that jurisdiction. Program information can be found on the Green Power Partnership website.

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the EPA Green Power Partnership agreement
- A copy of a previously submitted Partner Yearly Report

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide a copy of the most recent year's EPA Green Power Partner Yearly Report and a short description of the local government's partnership activities since becoming a partner.

## RESPONSE

The City will not be pursuing points for this measure at this time.

# 18. COMMUNITY SOLAR READY

## DESCRIPTION OF MEASURE

Solar energy photovoltaic (PV) cells require specialized installation and equipment, such as brackets, panels, and mounts and should have an appropriate inspection process. Defining where rooftop solar is allowed within the local jurisdiction and streamlining permitting processes reduces staff time and effort spent on permitting, technical documentation review, and more. These soft cost savings expedite normally time-consuming procedures. Creating a checklist for building inspectors also allows for quality control of solar energy infrastructure and reduces future maintenance costs. Solar power reduces strain on local energy grids, lifting burden off electricity conveyance infrastructure, and promotes community resiliency. The local government has implemented one of the two below BMPs to enable residents to install solar power on their lots.

- Addresses solar in the zoning code, has a streamlined permitting process, and has created an inspection checklist, or;
- Participate in a solarize campaign or other bulk purchasing program

## DOCUMENTATION REQUIRED FOR CREDIT

- A copy of the zoning ordinance amendment or update, description of the permitting process, an inspection checklist, and any solar guidelines given to permittees on BMPs, or;
- An adopted resolution pledging participation in a Solarize Campaign or photovoltaic (PV) bulk purchase program, a signed contract with a third-party provider, and the contact information for the local jurisdiction's program coordinator.

## RECERTIFICATION SUBMISSION REQUIREMENTS

Provide an update on the number of solar permits that have been approved by the local jurisdiction. At minimum, report the average energy capacity of permitted residential installations. At minimum, report the average energy capacity of permitted commercial installations.

## RESPONSE

The City will not be pursuing points for this measure at this time.