## City of North Las Vegas REMOTE Inspection Program

Valarie Evans M.C.P

**Building Official** 

City of North Las Vegas





## REMOTE Inspection Program

#### **AGENDA**

- Purpose
- Setting up Virtual Inspections
  - Process of Inspection
  - What the Contractor Needs
- Tips, Overcoming Hurdles, Lessons Learned





## Remote Inspection

Remote: Situated far from the main centers of population; distant

Inspection: Careful examination or scrutiny





## Pre-COVID-19: Residential Video Inspection Program

#### Purpose prior to COVID-19:

The purpose of the City of North Las Vegas Residential Video Inspection Program was initially intended to provide an alternative for eligible residential inspections, including limited re-inspections. The program required the customer to schedule the inspection via an Appointments Plus link on the City web page and to use the Skype app on a minimum 4G smart phone in order to interact with the City Inspector.



North Las Vegas went live with the Residential Video Inspection Program on July 1, 2019.



## Residential Video Inspection Program

#### **Types of Inspections:**

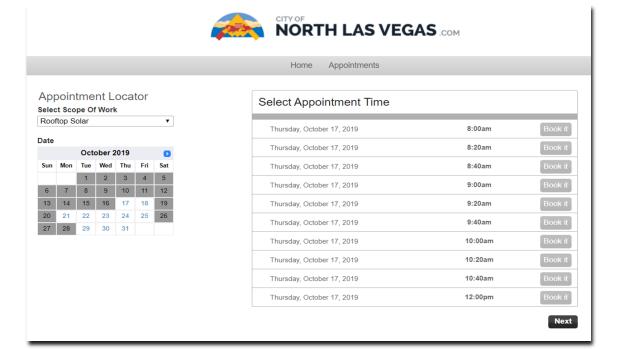
- Rooftop Solar
- Aluminum Patio Cover
- Water Heater
- Water Softener
- Plumbing Re-Pipe
- Gas Line Extension for BBQ and Fire Pits
- A/C Change out
- Attic FAU
- Main Line Water Repair
- Electrical Service Change
- Electric Car Chargers and Storage Systems
- Spa Circuit
- Detached Storage Sheds not to Exceed 600 Sq. Feet

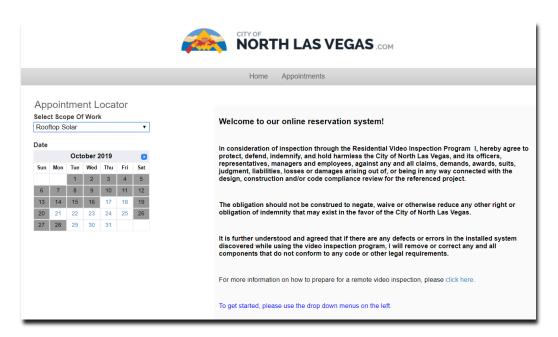
Note: If for any reason the Inspector is not able to complete the inspection via the Residential Video Inspection Program, every effort will be made to route a field inspector to complete the inspection the same day. If this is not possible, the inspector will schedule a field inspection for the next business day.

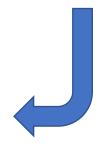


# Pre-COVID-19: Residential Video Inspection Program











## Pre-COVID-19: Residential Video Inspection Program

	NORTH LAS V	EGAS .com
	Home Appointments	
Appointment Locator Select Scope Of Work Rooftop Solar	Selected Appointment Scope Of Work Rooftop Solar	
Date	Date Thursday, October 17, 2019 Start Time 8:20am	- 1
October 2019  Sun Mon Tue Wed Thu Fri Sat  1 2 3 4 5	Please complete the following information.  New User	
6 7 8 9 10 11 12 13 14 15 16 17 18 19	* Indicates required field	
20         21         22         23         24         25         26           27         28         29         30         31	* First Name  * Last Name	
	* Home or Business Address	
	* JOB SITE ADDRESS  * Cell Phone	Job site address MUST match address on permit
	* Email	
	* SKYPE ID	



"Permit#	
Special Instructions	
Finalize Appointment	
© The City of North Las Vegas	
Powered by Appointment-Plus	
Are you a European Union citizen? If yes, please read our GDPR fact sheet.	



## Pre-COVID-19: Residential Video Inspection Program

- Residential scopes **greatly benefit the homeowners**, as they do not have to take off time or wait for inspections.
- Benefit to contractors to potentially only make one trip to job site.
- No wasted travel time for inspectors.
- The Current procedure requires the work to be completed first, and then the inspection is scheduled for the following day. For this program to benefit, we must be able to perform the remote inspection after the work is complete, before covers are re-installed, ladders put away, and before the contractor leaves the site. This may necessitate a shift in how and when inspections are scheduled. A remote inspection after the contractor leaves the site, lessens the benefit for the customers, but still has merit.
- Appointment software like **Appointments Plus** used by City of North Las Vegas.



## Remote Inspection Program

#### **Setting up virtual inspections:**

- List of the inspections allowed to be performed remotely.
- Determine the method of media used to stream the video i.e.: Skype, FaceTime, Hangouts, Google Duo, Google Meets, Zoom, WebEx.
- How is the inspection going to be scheduled?
- How is the inspection going to be performed?
- How will you follow-up with documents? QAA, Reports, Permits.
- Archiving. Are you going to keep the video?



## During COVID-19: Remote Inspection Program

#### **Purpose during COVID-19:**

- The purpose of the City of North Las Vegas Remote Video Inspection is to allow the development community to have continued momentum during the Coronavirus pandemic.
- To safeguard the City employees and the public while still performing critical inspections.
- There were several families waiting to move into new homes, as well commercial timelines that were dependent on us to maintain.



## During COVID-19: Remote Inspection Program

#### **Inspections:**

- All inspections to be performed via video means.
- No in-person inspections (staff working from home).
- Photos allowed when approved by the jurisdiction, provide enough photos to allow for a complete inspection.
- Documents sent via email PDF (third party daily reports, final reports, approved revisions etc.).







## Remote Inspection Program

#### What the contractor/customer needs:

- 4G Wireless service -Ensure inspection location and smart phone or tablet has minimum 4G connectivity.
- 2. Media account i.e.: Skype, FaceTime, Google Duo, Google Meet, Hangouts, Zoom.
- Prior to scheduled inspection time, ensure all necessary tools based on type of inspection are readily available. For example: tape measure, level, GFCI tester, flashlight, step ladder, etc.

# During COVID-19: Remote Inspection Program Process

## 1. <u>Inspector gets schedule at home via VPN or other means</u>

- Inspector calls each contact to schedule inspection, gives time window, and agrees on media platform.
- Some inspectors have contractor/customer text them when they are on project site.
- Inspector allots a minimum amount of time to perform inspection.
- Inspector lets customer know they may be performing an inspection when their time slot occurs and will call them back when finished.
- Inspector gets all documents electronically or via video at the time of the inspection.

#### 2. Start Inspection

- Inspector validates permit information.
- Inspector accesses all documentation.
- Inspector guides the inspection process.
- Contractor/customer follows direction of the inspector.



## Post-COVID-19: Statistics

- Over 11,500 inspections performed via video March 18 to May 18, 2020
- Building inspections
- Fire inspections
- Projects to revisit once in person inspection has been permitted has been identified





## What Remote Inspection is NOT

- NOT the answer to all inspections
  - Some things are just more through in person
  - Many inspections take longer
  - Trusting in technology
  - Inspector learning curve
  - Individual comfort levels
- NOT ideal for complex projects
  - Complex projects have more detail in person

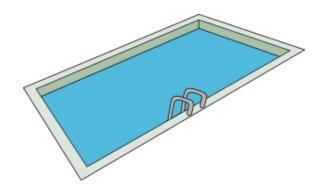


## Residential Scopes Added

#### Gazebos

Residential Room Additions not to Exceed 600 square feet (where the permit is obtained by a licensed contractor)

Residential Swimming Pools
Privacy Masonry Walls (interlocking without soils retention)





## Single Family Subdivisions

**Underground Electrical** 

Gypsum Board (that is not a part of a fire-resistive-rated assembly or shear assembly)

**Exterior Lath** 

Gas Tag

Electric Tag

Privacy Masonry Wall (interlocking without soils retention)

Residential Subdivision Signs



#### Commercial

Wall Mounted Signs **Monument Signs** Cell Tower Antenna Co-Location **Temporary Generators** Simple Mechanical, Plumbing, and Electrical **Gate AVI** Wrought Iron Fence **On-Site Utilities** 



#### Commercial

Fire Rehab

Garage to Sales Office

**Temporary Construction Trailers** 

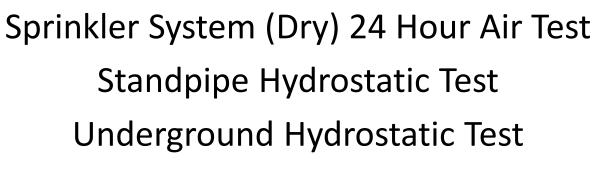
Tenant Improvements of B & M Occupancies not to Exceed 3000 Square Feet





#### Fire

Sprinkler Rough/Final up to (5) Heads with Approval Letter
Sprinkler Hydrostatic Test



Fire Alarm 24 Hour Battery Test





#### Fire

Medical Gas Pressure Test

Fire Final Tenant Improvements of B & M Occupancies not to Exceed 3000 Square Feet

Fire Business License of a B & M Occupancies not to Exceed 3000 Square Feet



## Remote Inspection Program

#### Tips, Overcoming Hurdles, Lessons Learned

- Contact information of contractor/customer is imperative.
- Utility reconnections
- Getting Plans downloaded for projects inspectors go to regularly.
- Get contractors to think like an inspector.
- Filter all inspections to Appointments plus or another scheduling platform so the customer can choose the inspection

Changes will continue to occur AS THE PROCESS GROWS.





## Remote Inspection Program

- Identify efficiencies.
- Increase program guidelines to allow for more inspections via video.
- Identify the projects where an in-person inspection is most critical.
- Follow up on projects that may have needed a closer look.

There is no pain in change itself, there is only pain in resistance to change.



#### Conclusions

Change Takes Change

Start with what is comfortable

Include staff in the planning process

Keep track of lessons learned from both internal and external

Make changes as necessary

customers

What will be next?





## Remote Inspection Program

# Thank you

#### Valarie Evans M.C.P

Building Official
City of North Las Vegas

evansv@cityofnorthlasvegas.com

702-633-1580







# INTERNATIONAL CODE COUNCIL®

ICC Government Relations August 5, 2020

## My Name is Susan Dowty





#### **Susan Dowty**



Edit profile

#### Susan Dowty

@sdowtyICC

ICC Government Relations Manager covering California, Nevada, Guam, American Samoa, & Northern Mariana Islands.
#BuildingSafety365

⊚ Brea, CA 
⊗ iccsafe.org 
■ Joined October 2015

675 Following 541 Followers

#### Background



S. K. Ghosh Associates Inc.

International Conference of Building Officials

San Diego County Building Department

#### **ICC Government Relations**





#### INTERNATIONAL CODE COUNCIL

State & Local Areas of Responsibility



## My Job Duties and Email



Serve the Members

Facilitate Code Adoptions



Engage with Chapters and Stakeholders

Monitor Legislation

sdowty@iccsafe.org

## **Frequently Asked Questions**





ICC AAA

#### **Technical Opinions**

Technical Opinions on codes and standards are an exclusive benefit of ICC Membership. Staff Code Opinions provide technical support and clarification of code text for adopting jurisdictions, design professionals, and members of the construction industry.

#### Staff Code Opinions

Staff Code Opinions are issued by ICC technical staff and are verbal or written. Written staff code opinions will be issued by ICC staff after receipt of a written request. All requests, verbal and written, require your ICC Membership number and the member name.

- Verbal: Call 888-ICC-SAFE (888-422-7233), ext. 33807 (Service provided between 7:30 AM 5:30 PM CST, Monday through Friday.)
- Online (ICC members must log in using their email address and password.)

#### Written Staff Code Opinions

Requests for written staff code opinions must be submitted to ICC in writing. When requesting a written staff code opinion, you must include the following information:

## **Frequently Asked Questions**



- Certifications, Pronto, CEUs
- Codes, Errata, and Code Changes
- Training and Preferred Provider Program
- ICC's Family of Solutions
- Safety 2.0: Next Generation of Code Officials
- New Products and Services
- Building Safety Month and Annual Conference
- Governmental membership and validated voters
- PDF downloads and PremiumAccess subscription
- ICC Plan Review Services
- Building Valuation Data

















#### https://www.iccsafe.org/nevada/



#### Nevada

ICC AAA

#### State Adoptions

Codes are adopted locally. The Nevada State Fire Marshal adopted the following codes effective February 2020: 2018 IFC, 2018 IBC, and 2018 IWUIC. The Nevada Public Works adopted the 2018 IBC, 2018 IRC, and 2018 IEBC for state owned buildings. The 2018 IECC is adopted statewide.

- 2018 International Building Code
- 2018 International Energy Conservation Code
- 2018 International Existing Building Code
- 2018 International Fire Code
- 2018 International Residential Code
- 2018 International Urban-Wildland Interface Code

#### Links to State Adoption Agencies

Public Works Division

State Fire Marshal

State Energy Office

#### **Key Contacts**

#### State of Nevada Fire Marshal:

Lt. Mike Dzyak, Interim State Fire Marshal Nevada Department of Public Safety State Fire Marshal 107 Jacobsen Way

Carson City, NV 89711 Phone: (775) 684-7525

Fax: (775) 684-7518 sfm@dps.state.nv.us

#### Nevada Governor's Office of Energy:

David Robzien, Director

## **Nevada ICC Chapters**



Southern Nevada Chapter of the ICC SNICC

Northern Nevada ICC Chapter NNICC

Fire Prevention Association of Nevada FPAN

## **Monthly Correspondence**



Every month, ICC's Government Relations Dept posts a monthly update.



#### **Social Media**



- Facebook.com/InternationalCodeCouncil
- Twitter.com/@sdowtyICC
- in Linkedin.com/Susan Dowty
- Youtube.com/ICCMedia

"People Helping People Build a Safer World"

## Thank you!





Susan Dowty, S.E.

Regional Manager Government Relations sdowty@iccsafe.org

International Code Council Western Regional Office

3060 Saturn Street, Suite 100

Brea, CA 92821

t: 888.ICC.SAFE (422.7233), ext. 3111

c: 949.463.3544

www.iccsafe.org | @sdowtyICC

# SWEEP 3Q Nevada Energy Code Collaborative

Resources for advancing building energy efficiency & decarbonization

Michelle Britt
Director, Energy Programs
International Code Council



## Background: International Code Council

- ▶ 15 ICC Codes
  - Structural/Life Safety
  - Plumbing, Mechanical & Fuel Gas
  - Energy
  - Fire Safety
  - Property Maintenance
  - Zoning
  - Green Construction
  - Swimming Pools & Spas
  - ▶ Etc.





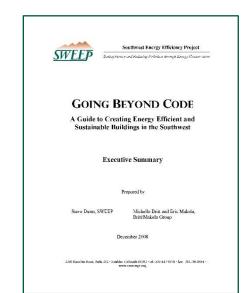
The IECC has saved U.S. consumers over **\$44 billion** and avoided **300 million tons** of carbon dioxide emissions.

## This is equivalent to:

Greenhouse gas emissions from 15 million garbage trucks of waste recycled instead of landfilled

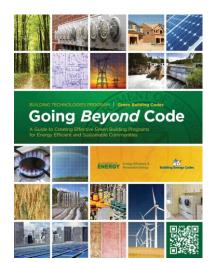


\*1 truck = 1 million trucks







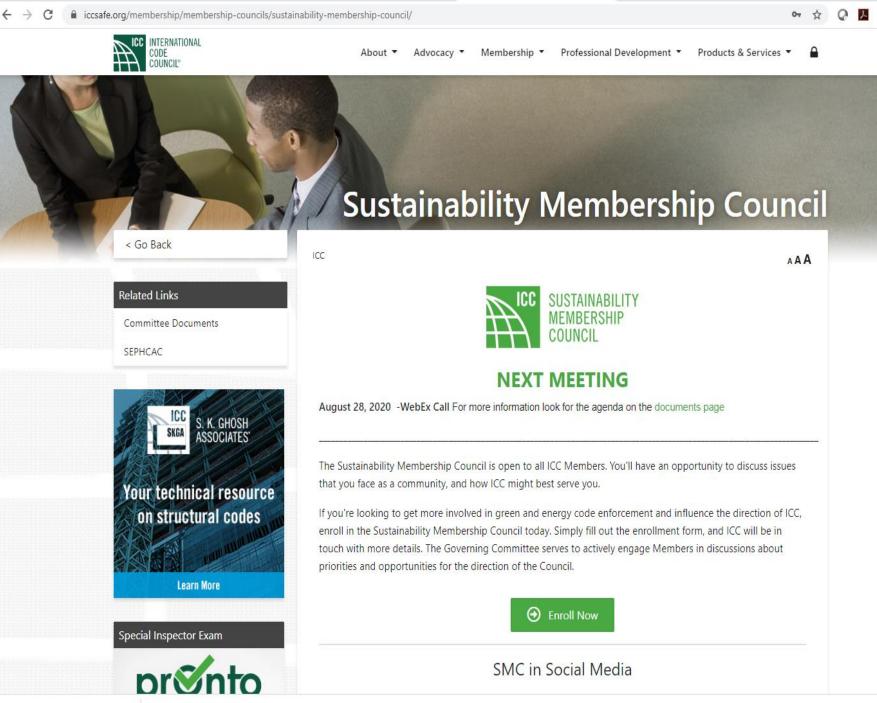












Show all

LIVE CHAT

## Net Zero and Decarbonization

- Net Zero Energy
- Zero Carbon
- O & M and Post Occupancy
- Grid Mod and EV Storage
- Financing Public and Private
- Implementation and Compliance





## Toolkit

- Chapter 2 Getting Started: Keys to Successful
   Adoption and Implementation Strategies
- Chapter 3 Key Components of energy efficient and low carbon building construction
- Chapter 4 Policies, regulations, best practices and case studies
- Chapter 5 Resources



language in the current market, this is the first step to generate discussion on this topic.

#### View example policies

#### Grid Modernization and Connectivity/Electric Vehicles/Energy Storage

Clean-energy, including onsite renewables, energy storage, and energy-efficient technologies, such as electric vehicles, separately and together are increasingly being adopted to support energy efficiency. As they become more prevalent on the customer side of the meter, the distribution system must evolve to account for these technologies in the supply and demand equation. Integration of these technologies into the electrical grid is critical to ensure that utilities can continue to operate the grid in a safe, reliable, and cost-effective manner.

#### View example policies

#### Operations and Maintenance

A well-run O&M program should conserve energy and water and be resource efficient, while meeting the comfort, health, and safety requirements of the building occupants. Effective O&M is one of the most costeffective methods for ensuring reliability, safety, and energy efficiency. Inadequate maintenance of energyusing systems is a major cause of energy waste. Uninsulated lines, maladjusted or inoperable controls, and other losses from poor maintenance are often considerable. Good maintenance practices can generate substantial energy savings and should be considered a resource. Moreover, improvements to facility maintenance programs can often be accomplished immediately and at a relatively low cost. - Source FEMP O&M Best Practices Guide, Release 3.0

#### View example policies

#### Implementation Workforce

Local governments across the United States are increasingly enacting policies and offering programs to drive energy savings, but the success of these activities is inextricably linked to a strong, capable energy efficiency.





















# IECC

INTERNATIONAL ENERGY CONSERVATION CODE





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## Join our new Code Council online discussion platform!

Building safety professionals can ask questions, gather with industry colleagues virtually, and discuss relevant industry topics in a peer-to-peer environment.

CHECK OUT THE DISCUSSION! →



### Discuss | Share | Learn



#### Trusted Source for Codes & Standards

Our model building codes and standards provide the highest level of safety in the world.



#### **Building Safety Experts**

Our family of solutions delivers a wide array of building safety services, including evaluation, accreditation, certification, codification, training and more.



#### Professional Development

We support the building industry with the latest training, mentoring and education resources.



#### Coronavirus Response Center

The Code Council continues to track how the global novel coronavirus (COVID-19) pandemic is affecting our industry.

Leaders in the global built environment

















## QUESTIONS?

Michelle Britt
Director, Energy Program
International Code Council
mbritt@iccsafe.org

