

City of Harker
Heights
January 10, 2024
Contractors Meeting

Harker The Bright Star Of Central Texas HeightS

Building Department Staff

Building Official Secretary: Sharronda Caston-Hill

Plans Examiner: Courtney Fye

Building Inspector: Eric Moree

Code Enforcement: Calvin Fleming, Alex McCoy, Fabian

Brooks.

Building Official: Michael Beard.

Harker The Bright Star Of Central Texas Height Star Of Lentral Texas Heigh



Some of Bluebonnet ICC Partners













Harker The Bright Star Of Central Texas Height Star Of Lentral Texas Heigh



Bluebonnet ICC 2023 Annual Training



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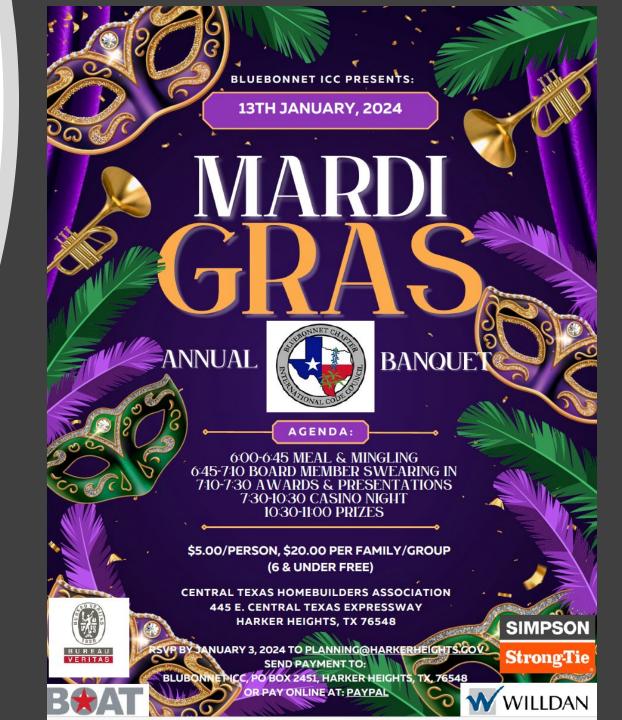
Bluebonnet ICC













- 2024 Contractor registration is due.
- DBA/LLC or article of incorp (new only)
- Copy of trade licenses
- Copy of Insurance
- Copy of State contractor license. (if applicable)
- New fee for Contractor registration is \$85 (If applicable)

	January			2025		
S	M	T	W	T	F	S
			(1)	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



Effective Date: January 1, 2025



Future meeting Dates:

January 10, 2024

March – TBD

May-TBD

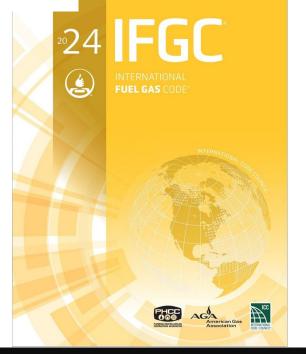
July-TBD

September –TBD





2024 International Fuel Gas Code (IFGC)





Type: Addition and clarification

Determination of compliance.

The code official shall have the authority to determine compliance with this code, to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures:

- 1. Shall be in compliance with the intent and purpose of this code.
- 2. <u>Shall not</u> have the effect of waiving requirements specifically provided for in this code.



Type: Addition and clarification

104.2.1 Listed compliance.

Where this code or a referenced standard requires equipment, materials, products or services to be listed and a listing standard is specified, the listing shall be based on the specified standard. Where a listing standard is not specified, the listing shall be based on an approved listing criteria. Listings shall be germane to the provision requiring the listing. Installation shall be in accordance with the listing and the manufacturer's instructions, and where required to verify compliance, the listing standard and manufacturer's instructions shall be made available to the code official.



Type: Addition and clarification

104.2.2 Technical assistance.

To determine compliance with this code, the code official is authorized to require the owner or owner's authorized agent to provide a <u>technical opinion and report</u>.

104.2.2.1 Cost.

A technical opinion and report shall be provided without charge to the jurisdiction.



Type: Addition and clarification

104.2.2.2 Preparer qualifications.

The technical opinion and report <u>shall be</u> <u>prepared by a qualified engineer</u>, specialist, laboratory or specialty organization <u>acceptable to the code</u> <u>official</u>. The code official is authorized to require design submittals to be prepared by, and bear the stamp of, a registered design professional.



- 104.2.2.3 Content.
- 104.2.2.4 Tests
- 104.2.3 Alternative materials, design and methods of construction and equipment.
- 104.2.3.1 Approval authority.
- 104.2.3.2 Application and disposition.
- 104.2.3.4 Equivalency criteria.
- 104.2.3.5 Tests
- 104.2.3.5.1 Fire tests.
- 104.2.3.6 Reports.
- 104.2.3.6.1 Evaluation reports.



- 104.2.3.6.2 Other reports.
- 104.2.3.7 Peer review.
- 104.2.4 Modifications.
- 104.2.4.1 Flood hazard areas.
- 104.3 Applications and permits
- 104.3.1 Determination of substantially improved or substantially damaged existing buildings and structures in flood hazard areas.
- 104.4.1 Warrant.
- 104.7 Official records.



- 104.7.1 Approvals.
- 104.7.2 Inspections.
- 104.7.3 Code alternatives and modifications.
- 104.7.4 Tests.
- 104.7.5 Fees.
- 104.9 Approved materials and equipment.
- 104.9.1 Materials and equipment reuse.



SECTION 108 (IFGC) FEES

- 108.3 Permit valuations.
- The applicant for a permit shall provide an estimated value of the work for which the permit is being issued at time of application. Such estimated valuations shall include total value of work, including materials and labor, for which the permit is being issued, such as plumbing equipment and permanent systems. Where, in the opinion of the code official, the valuation is underestimated, the permit shall be denied unless the applicant can show detailed estimates acceptable to the code official. The code official shall have the authority to adjust the final valuation for permit fees.



SECTION 202 (IFGC) GENERAL DEFINITIONS

Type: New Addition

PEER REVIEW. An independent and objective technical review conducted by an approved third party.



SECTION 302 (IFGC) STRUCTURAL SAFETY

Type: Addition and clarification

• 302.6 Cutting and notching in coldformed steel framing.

The cutting and notching of holes in cold-formed steel framing members shall be in accordance with AISI S240 for structural members and AISI S220 for nonstructural members.

2020 AISI S240-20 North American Standard for Cold-Formed Steel Structural Framing

2020 AISI S220-20 North American Standard for Cold-Formed Steel Nonstructural Framing







SECTION 304 (IFGS) COMBUSTION, VENTILATION AND DILUTION AIR

Type: Change for clarification

304.1 General.

Where chemicals that generate corrosive or flammable products such as aerosol sprays are routinely used, one of the following shall apply to fired appliances where these chemicals can enter combustion air:

- 1. Fired appliances shall be located in a mechanical room separate or partitioned off from other areas with provisions for combustion and dilution air from outdoors.
- 2. The appliances shall be direct vent and installed in accordance with the appliance manufacturer's installation instructions.



SECTION 304 (IFGS) COMBUSTION, VENTILATION AND DILUTION AIR

Type: Change for Clarification

304.12 Protection from fumes and gases.

Where chemicals that generate corrosive or flammable products such as aerosol sprays are routinely used, one of the following shall apply to fired appliances where these chemicals can enter combustion air:

- 1. Fired appliances shall be located in a mechanical room separate or partitioned off from other areas with provisions for combustion and dilution air from outdoors.
- 2. The appliances shall be direct vent and installed in accordance with the appliance manufacturer's installation instructions.



SECTION 306 (IFGC) ACCESS AND SERVICE SPACE

Type: Change in design criteria

306.5 Equipment and appliances on roofs or elevated structures.

Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet above grade to access such equipment or appliances, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders.



SECTION 306 (IFGC) ACCESS AND SERVICE SPACE

Type: Change in design criteria

306.5 Equipment and appliances on roofs or elevated structures. Cont.

- The side railing shall extend above the parapet, roof edge or <u>landing platform</u> not less than <u>42 inches</u> (2021 was 30").
- Ladders shall have rung spacing <u>not less</u> <u>than 10 inches</u> and not to exceed 14 inches on center.
- Ladders shall have a toe spacing not less than 7 inches and not more than 12 inches deep. (2021 was not less than 6"deep)



SECTION 306 (IFGC) ACCESS AND SERVICE SPACE

Type: Change in design criteria

306.5 Equipment and appliances on roofs or elevated structures. Cont.

- There shall be not less than 16 inches (2021 was 18") between rails.
- Ladders shall have rung spacing not less than 10 inches and not to exceed 14 inches on center.
- Ladders shall have a toe spacing not less than 7 inches and not more than 12 inches deep. (2021 was not less than 6"deep)
- Top landing required. The ladder shall be provided with a clear and unobstructed landing on the exit side of the roof hatch having a minimum space of 30 inches deep and be of the same width as the hatch. (New)



SECTION 310 (IFGS) ELECTRICAL BONDING

Type: Clarification

310.3 Arc-resistant CSST.

Corrugated stainless steel tubing (CSST) with an arc-resistant jacket or coating system shall be listed as arc resistant in accordance with ANSI LC 1/CSA 6.26. Arc-resistant-jacketed CSST shall be electrically continuous and bonded to an effective ground fault current path. Where any CSST used in a piping system does not have an arc-resistant jacket or coating system, the bonding requirements of Section 310.2 shall apply. Arc-resistantjacketed CSST shall be considered to be bonded where it is connected to <u>one or more</u> appliances that are connected to the equipment grounding conductor of the circuit that supplies that appliance(s).



SECTION 403 (IFGS) PIPING MATERIALS

Type: Addition for clarification

403.6 Workmanship and defects.

Gas pipe, tubing and fittings at the time of installation shall meet the following requirements:

- 1. Gas pipe, tubing and fittings shall be clear and free from cutting burrs and visible defects in structure or threading.
- 2. Gas pipe, tubing and fittings shall be thoroughly cleaned to remove chip, scale and debris.
- 3. Visible defects in pipe, tubing and fittings shall not be repaired.
- 4. Pipe, tubing and fittings with visible defects shall be replaced.



SECTION 403 (IFGS) PIPING MATERIALS

Type: Addition for clarification

403.11.3 Nonferrous.

Nonferrous flanges shall be in accordance with ASME B16.24 except listed components using aluminum flange connections constructed in accordance with the dimensional specifications of ANSI/ASME B16.5.



SECTION 403 (IFGS) PIPING MATERIALS

Type: Addition

403.12.1 Flanges.

When flanges are separated and before gaskets are replaced, the following shall be met:

- 1. Flange faces shall be cleaned.
- 2. Flange surfaces shall be inspected for pitting, corrosion and other surface defects.
- 3. Flanges that contain pitting, corrosion and other surface defects on faces shall be repaired or replaced.



SECTION 406 (IFGS) INSPECTION, TESTING AND PURGING

Type: City of Harker Heights Amend

Section 406.4.2 "Test Duration." Amend to read: "Test duration shall be not less than 15 minutes. For larger piping systems the code official may require a longer test duration, not to exceed 24 hours.



SECTION 406 (IFGS) INSPECTION, TESTING AND PURGING.

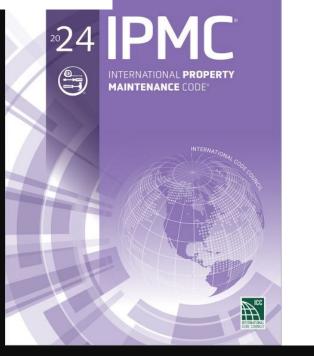
Type: City of Harker Heights Amend

Add Section 406.4.3 "Test Gauges. Gauges used for testing shall be as follows:

- 1. Tests requiring a pressure of 10 psi or less shall utilize a testing gauge having increments of 0.10 psi (0.69 kPa) or less.
- 2. Tests requiring a pressure higher than 10 psi (69 kPa) but less than or equal to 100 psi (690 kPa) shall use a testing gauge having increments of 1 psi (6.9 kPa) or less.
- 3. Tests requiring a pressure higher than 100 psi (690 kPa) shall use a testing gauge having increments of 2 psi (14 kPa) or less."



2024 International Property Maintenance Code (IPMC)





Type: Addition

105.2 Determination of compliance.

The code official shall have the authority to determine compliance with this code, to render interpretations of this code and to adopt policies and procedures in order to clarify the application of this code's provisions. Such interpretations, policies and procedures:

- 1. Shall be in compliance with the intent and purpose of this code.
- 2. Shall not have the effect of waiving requirements specifically provided for in this code or other applicable codes and ordinances.



Type: Addition

105.2.1 Technical assistance.

To determine compliance with this code, the code official is authorized to require the owner or owner's authorized agent to provide a technical opinion and report.

105.2.1.1 Cost.

A technical opinion and report shall be provided without charge to the jurisdiction.



Type: Addition

105.2.1.2 Preparer qualifications.

The technical opinion and report shall be prepared by a qualified engineer, specialist, laboratory or specialty organization acceptable to the code official. The code official is authorized to require design submittals to be prepared by, and bear the stamp of, a registered design professional.



Type: Addition

105.2.1.3 Content.

The technical opinion and report shall analyze the properties of the design, operation or use of the building or premises and the facilities and appurtenances situated thereon to identify and propose necessary recommendations.



Type: Addition

105.2.1.4 Test methods.

Where there is insufficient evidence of compliance with the provisions of this code, the code official shall have the authority to require tests as evidence of compliance. Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized test standards, the code official shall approve the testing procedures. Such tests shall be performed by a party acceptable to the code official.



Type: Addition

- 105.2.2.1 Approval authority.
- 105.2.2.2 Application and disposition.
- 105.2.2.3 Compliance with code intent.
- 105.2.2.4 Equivalency criteria.
- 105.2.2.5 Tests.
- 105.2.2.5.1 Fire tests.
- 105.2.2.6.1 Evaluation reports.
- 105.2.2.6.2 Other reports.
- 105.2.2.7 Peer review.
- 105.3.1 Warrant.



Type: Addition

- 105.6.1 Approvals.
- 105.6.2 Inspections.
- 105.6.3 Code alternatives and modifications.
- 105.6.4 Tests.
- 105.6.5 Fees.



111 Demolition

Type: Addition for clarification

111.1 General.

When the code official determines any structure is so old, dilapidated or has become so out of repair and is dangerous, unsafe, insanitary and otherwise unfit for human habitation or occupancy the code official can order either of the following:

- 1. The code official is permitted to authorize the owner or owner's authorized agent to make the structure safe by repairs in order to make the structure safe and sanitary. Where there has been a cessation of construction repairs of any structure for a period of more than 2 years the structure will be ordered demolished and removed.
- 2. The code official is permitted to order the owner or owner's authorized agent to demolish and remove any such structure.



Type: Addition

APPROVED AGENCY.

An established and recognized organization that is regularly engaged in conducting tests, furnishing inspection services or furnishing product evaluation or certification where such organization has been approved by the code official.



Type: Addition

DANGEROUS.

Any building, structure or portion thereof that meets any of the conditions described below shall be deemed dangerous:

- 1. The building or structure has collapsed, has partially collapsed, has moved off its foundation or lacks the necessary support of the ground.
- 2. There exists a significant risk of collapse, detachment or dislodgment of any portion, member, appurtenance or ornamentation of the building or structure under permanent, routine or frequent loads, or under snow, wind, rain, flood, earthquake or other environmental loads when such loads are imminent.



Type: Addition

PEER REVIEW.

An independent and objective technical review conducted by an approved third party.

POWER SAFETY COVER.

A pool cover that is placed over the water area and is opened and closed with a motorized mechanism activated by a control switch.



Type: Addition

SAFETY COVER.

A structure, fabric or assembly, along with attendant appurtenances and anchoring mechanisms, that is temporarily placed or installed over an entire pool, spa or hot tub and secured in place after all bathers are absent from the water.

STORM SHELTER.

A building, structure or portion thereof, constructed in accordance with ICC 500, designated for use during hurricanes, tornadoes or other severe windstorms.



SECTION 301 GENERAL

Type: Clarification

301.2 Responsibility.

The owner of the premises shall maintain the structures and exterior property in compliance with these requirements and the code under which the building was constructed, except as otherwise provided for in this code. The owner or owner's agent shall be responsible to ensure that any repairs, additions or alterations to the building or portion thereof are performed or constructed in accordance with the International Building Code, International Residential Code or International Existing Building Code.



SECTION 302 EXTERIOR PROPERTY AREAS

Type: City of Harker Heights Amend
Section 302.4 "Weed." Insert: "12 inches (304.8 mm)."

302.4 Weeds.

Premises and exterior property shall be maintained free from weeds or plant growth in excess of [JURISDICTION TO INSERT HEIGHT IN INCHES].



SECTION 302 EXTERIOR PROPERTY AREAS

Type: City of Harker Heights Amend

Section 302.8 "Motor Vehicles." Amend to read: "Except as provided in other regulations, no inoperative and not displaying a current registration and inspection certificate, motor vehicle shall be parked, kept or stored on any premises visible from any public property, and no vehicle shall at any time be in a state of disassembly, disrepair, or in the process of being stripped or dismantled. Painting of vehicles is prohibited unless conducted inside an approved spray booth."].



SECTION 304 EXTERIOR STRUCTURE

Type: City of Harker Heights Amend

Section 304.14 "Insect Screens." Amend to read: "Every door, window and other outside opening required for ventilation of habitable rooms, food preparation areas, food service areas, or anywhere products to be included or utilized in food for human consumption are processed, manufactured, packaged, or stored, shall be supplied with approved tightly fitting screens of less than sixteen (16) mesh per inch (16 mesh per 25 mm), and every swinging door shall have a self-closing device in good working condition."



SECTION 303 SWIMMING POOLS, SPAS AND HOT TUBS

Type: Addition and clarification

303.2 Enclosures.

Exceptions:

1. Spas or hot tubs equipped with a lockable safety cover that complies with ASTM F1346.

2. Private swimming pools equipped with a power safety cover that complies with ASTM F1346 and is in working condition using the control switch.



SECTION 310 ACCESSIBILITY

Type: Added section

310.1 General.

A facility that is required to be accessible shall be maintained accessible during occupancy.

310.1.1 Maintenance.

The accessible features of a facility shall be maintained in good repair, in a clean, structurally sound and sanitary condition, and free from impediments to accessibility.



SECTION 311 STORM SHELTERS

Type: Added section

311.1 General.

Community storm shelters shall be evaluated, maintained and repaired in accordance with this section and ICC 500.

311.2 Evaluation.

Community storm shelters shall be evaluated annually and when requested by the authority having jurisdiction in accordance with ICC 500.

311.3 Maintenance and repairs.

Community storm shelters shall be maintained in an operable condition. All structural and operational elements shall be repaired or replaced in accordance with ICC 500 where damaged or found to be inoperable.



SECTION 404 OCCUPANCY LIMITATIONS

Type: Addition exception for clarification 404.3 Minimum ceiling heights.

Habitable spaces, hallways, corridors, laundry areas, bathrooms, toilet rooms and habitable basement areas shall have a minimum clear ceiling height of 7 feet (2134 mm).

In one- and two-family dwellings, rooms occupied exclusively for bathrooms, toilet rooms and laundry rooms having a minimum ceiling height of 6 feet 8 inches (2033 mm).



SECTION 602 HEATING FACILITIES

Type: City of Harker Heights Amend

Section 602.3 "Heat Supply." Amend to read: "Every owner and operator of any building who rents, leases, or sublets one or more dwelling unit, rooming unit, dormitory or guestroom on terms, either expressed or implied, to furnish heat to the occupants thereof shall supply heat to maintain a temperature of not less than 65° F (18° C) in all habitable rooms, bathrooms, and toilet rooms."



SECTION 602 HEATING FACILITIES

Type: City of Harker Heights Amend

Section 602.4 "Occupiable Work Spaces." Amend to read: "Indoor work spaces that may be occupied shall be supplied with heat to maintain a temperature of not less than 65° F (18° C) during the period that the space is occupied."

Exceptions: remain as written.



SECTION 606 ELEVATORS, ESCALATORS AND DUMBWAITERS

Type: Addition

606.3 Private residence elevators.

Requirements for private residence elevators shall be in accordance with Sections 606.3.1 through 606.3.3.

606.3.2 Hoistway enclosures.

Hoistway enclosures shall comply with Section 5.3.1.1 of ASME A17.1/CSA B44.



SECTION 606 ELEVATORS, ESCALATORS AND DUMBWAITERS

Type: Addition

606.3 Private residence elevators.

Requirements for private residence elevators shall be in accordance with Sections 606.3.1 through 606.3.3.

606.3.2 Hoistway enclosures.

Hoistway enclosures shall comply with Section 5.3.1.1 of ASME A17.1/CSA B44.



SECTION 606 ELEVATORS, ESCALATORS AND DUMBWAITERS

Type: Addition

606.3 Private residence elevators.

Requirements for private residence elevators shall be in accordance with Sections 606.3.1 through 606.3.3.

606.3.2 Hoistway enclosures.

Hoistway enclosures shall comply with Section 5.3.1.1 of ASME A17.1/CSA B44.



SECTION 704 FIRE PROTECTION SYSTEMS

Type: Addition

704.6.1.3 Installation near cooking appliances.

Smoke alarms shall be installed a minimum of 10 feet (3.0 m) horizontally from a permanently installed cooking appliance.

Exception: Smoke alarms shall be permitted to be installed a minimum of 6 feet (1.8 m) horizontally from a permanently installed cooking appliance where necessary to comply with Section 704.6.1.1 or 704.6.1.2.



SECTION 704 FIRE PROTECTION SYSTEMS

Type: Addition

704.7.1 Replacement.

Smoke alarms shall be replaced where any of the following apply:

- 1.The smoke alarm fails to respond to operability tests.
- 2.Where the smoke alarm exceeds 10 years from the date of manufacture marked on the unit, unless an earlier replacement is specified in the manufacturer's instructions.
- 3.The smoke alarm end-of-life signal is sounded.
- 4.The smoke alarm date of manufacturer cannot be determined.



SECTION 607 DUCT SYSTEMS

Type: Addition

607.2 Clothes dryer exhaust duct system maintenance.

The lint trap, mechanical and heating components, and the exhaust duct system of a clothes dryer shall undergo periodic removal of accumulations of lint in accordance with the manufacturer's operating instructions to prevent obstruction of exhaust air and products of combustion.



Appendix

Type: City of Harker Heights Amend

• Appendix A is hereby adopted.

Appendix A provides minimum specifications for boarding a structure

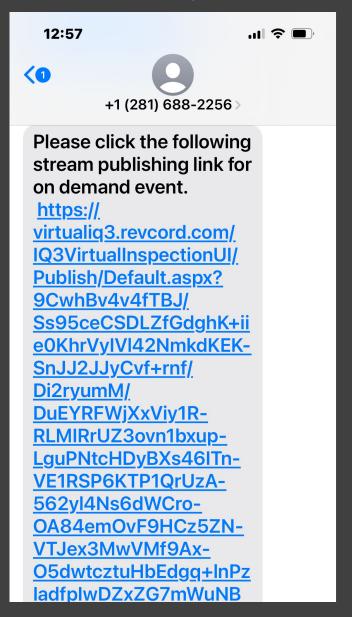
• Appendix B is not adopted.

Appendix B provides criteria for Board of Appeals members.



- Flatwork
- C-final
- Electric water heaters
- T-pole
- Certain re-inspections
- HVAC change outs
- Windows
- Solar Finals
- Water and sewer yard lines
- Roof





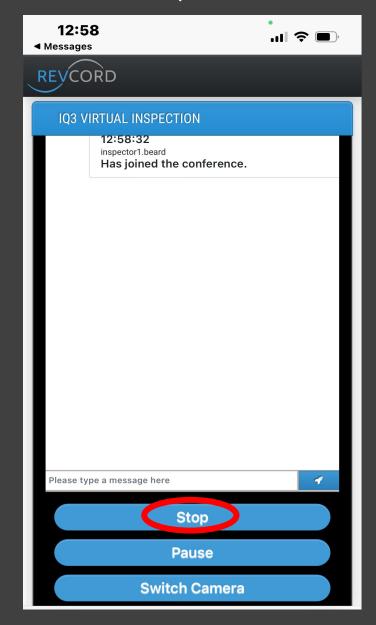














Demonstration

Harker The Bright Star Of Central Texas HeightS

Open discussion-Questions and Answer



Thank you for Attending!

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