



CONSTRUCTION CODE MODERNIZATION PROJECT (CCM) - 2021 CODE ADOPTION

NOVEMBER 2022





HOUSTON IS CONSTANTLY GROWING AND EVOLVING. THIS ROBUST, UNWAVERING PROGRESS REQUIRES A PERMANENT DAILY EFFORT TO SUFFICIENTLY MAINTAIN AND UPGRADE OUR BUILDING CODES AND READY US FOR THE THRIVING FUTURE WE ARE CULTIVATING EVERY DAY.

NOW, MORE THAN EVER, WE MUST BE AT OUR STRONGEST AND MOST RESILIENT AS WE BUILD HOUSTON FORWARD.

TOGETHER WE CREATE A STRONG FOUNDATION FOR HOUSTON TO THRIVE!

HISTORY

- In August of 2017, 52 inches of rain in a 5-day period resulting in over 300,000 households impacted and over \$2.5B in damaged city facilities and infrastructure.
- In response to the Presidentially declared disaster Hurricane Harvey, the City of Houston appropriated \$835 million in a Community Development Block Grant-Disaster Recovery (CDBG-DR) funding from HUD through the Texas General Land Office, for Build It Forward programs and \$23 million for Local Action Plans for the development and implementation of programs that directly benefit the residents of the City of Houston.
- These funding provided the development and oversight of Houston's Climate Action Plan, Houston's Resilience Plan and Houston's Hazard Mitigation Plan, and the Stormwater Master Plan.
- Houston's local plans and programs look at our built environment to mitigate and adapt to the ever-changing climate stressors including hurricanes, severe rainfall, storm surge flooding, extreme temperatures, extended periods of drought, and the urban heat island effect.

FEMA FUNDING INITIATIVES

- **Mayor Turner turned to Director Haddock to ask her how to best utilize FEMA funds received by the City due to the overwhelming impact Hurricane Harvey had on our built environment.**
- **Seizing the opportunity Director Haddock requested that the City, that was just about to implement the 2015 Edition of the building codes, move immediately into implementing the 2021 Edition of the Building Codes.**
- **Construction Codes—and their consistent and timely updating and enforcement—ensure the health and safety of buildings, their functions, and the communities they serve. By staying current in our building codes, we can help our citizens protect their homes and businesses providing safety and greater economic security.**
- **It is the intent of Houston Public Works to adopt the International Code Council’s family of 2021 I-Codes as a base code with minimum local amendments that will strengthen the base code and ensure long term sustainability of the development community.**

CCM PROJECT – 6 MAJOR TASKS

- **Task 1: Project Management Plan**
This is an ongoing task that outlines the measurable goals and establishes a budget and timeline to achieve the CCM project objectives.
- **Task 2: Existing Code Review**
This task began in late June of 2022 with a completion date of December 2022, including Customer Assistance and Code Development (CACD) of the Houston Permitting Center review of the code analysis.
- **Task 3: Stakeholder Engagement**
Upon completion of the 2015 to 2021 code analysis, the City will kick off the Public Participation initiatives as laid out in the Public Participation Plan that will continue throughout the project. Included in this is the Stakeholder Engagement process to begin in December and conclude in April 2023.

CCM PROJECT – 6 MAJOR TASKS

- **Task 4: Toolkit and Technical Memos**
This task of the project will begin in April of 2023 and continue until the end of August 2023. A comprehensive technical analysis of the City's future Construction Codes and building regulations will be completed. The technical analysis will provide a summary of consistencies and/or inconsistencies between the current Construction Codes, the Resilient Houston Strategy, the Climate Action Plan, and other recommended resources. Tools will be developed to include online training courses for use in training City staff members that will also provide continuing education units (CEUs) for City staff.
- **Task 5: Implementation Strategy**
After the completion of the Toolkit at the end of August of 2023, Jensen Hughes and the Construction Code Modernization Team will train the City's internal stakeholders on the new codes and how to utilize any new tools that the City decides to embrace to gain in efficiency, quality, and ease of use. During this period a series of issue papers will be issued and culminate in a well-organized and user-friendly suite of construction code documents that reflect the City's needs, values, and resources through easy-to-read text and graphic explanations.
- **Task 6: Standard Operating Procedures (SOP) Development**
In January 2024 through May 2024, processes will be determined that support the City when upgrading to future codes so that Houston will remain a competitive city by offering an easy, efficient, and cost-effective way to build in Houston.

JENSEN HUGHES EXPERT CONSULTANT SELECTED

To achieve a smooth and effective CCM process, Jensen Hughes was selected as the City's preferred expert to assist the City of Houston in modernizing the cities 2015 Edition of codes to the 2021 Edition of codes and to recommend best practices and procedures for maintaining the most current codes, all for the safety and welfare of its citizens.

RESEARCH - MODEL CITIES

These cities are just a few that were researched and contacted:

- Chicago, IL
- New York, NY
- Los Angeles, CA
- Atlanta, GA
- Austin, TX
- Fort Worth, TX

BASED ON OUR RESEARCH

We have designed a strategy and constituted Four (4) Task Force Groups and a Construction Code Modernization Committee made up of City staff joined with industry code experts that will:

- **Analyze and vet all stakeholder code amendment submittals within their specific code category.**
- **Meet with and consult with internal and external stakeholders.**
- **Finalize stakeholder amendments to be proposed.**
- **Potentially review significant changes from 2015 to 2021.**
- **Submit proposed amendments to the Houston Code Development Committee.**
- **Be a City Ambassador and inform and educate the development community on the importance and value of the City's 2021 code process and adoption.**

CCM EXTERNAL STAKEHOLDERS –

INCLUDES DEVELOPERS, ARCHITECTS, ENGINEERS, AND SPECIALTY TRADE PROFESSIONALS SUCH AS PLUMBERS , ELECTRICIANS, AND HEATING AND VENTILATION INSTALLERS.

- American Institute of Architects (AIA)
- American Society of Civil Engineers (ASCE)
- American Society of Plumbing Engineers (ASPE)
- ASHRAE
- Associated Builders and Contractors of Texas
- Associated General Contractors (AGC) - Houston
- Building Officials Association of Texas (BOAT)
- Construction Industry Council-Houston Branch (HCIC)
- Greater Houston Builders Association (GHBA)
- Greater Houston Texas Restaurant Association (GHTRA)
- Hotel & Lodging Association of Greater Houston (H&LAGH)
- Houston Apartment Association (HAA)
- Houston Building Owners & Managers Association (BOMA)
- Houston Business Roundtable (HBR)
- Houston Contractors Association (HCC)
- Houston Housing Collaborative
- Independent Electrical Contractor (IEC)
- Institute of Real Estate Management (IREM)
- International Association of Plumbing and Mechanical Officials
- International Code Council (ICC)
- NAIOP, the Commercial Real Estate Development Association
- Society of Fire Protection Engineers (SFPE)
- South Central Partnership for Energy Efficiency as a Resource (SPEER)
- Super Neighborhood Representatives
- Texas Community Watershed Partners
- Texas Institute of Building Design (TIBD)
- Urban Land Institute (ULI)
- US Green Business Council (USGBC) of Houston
- Others

CCM INTERNAL STAKEHOLDERS – *HOUSTON CODE DEVELOPMENT COMMITTEE*

City of Houston Depts –

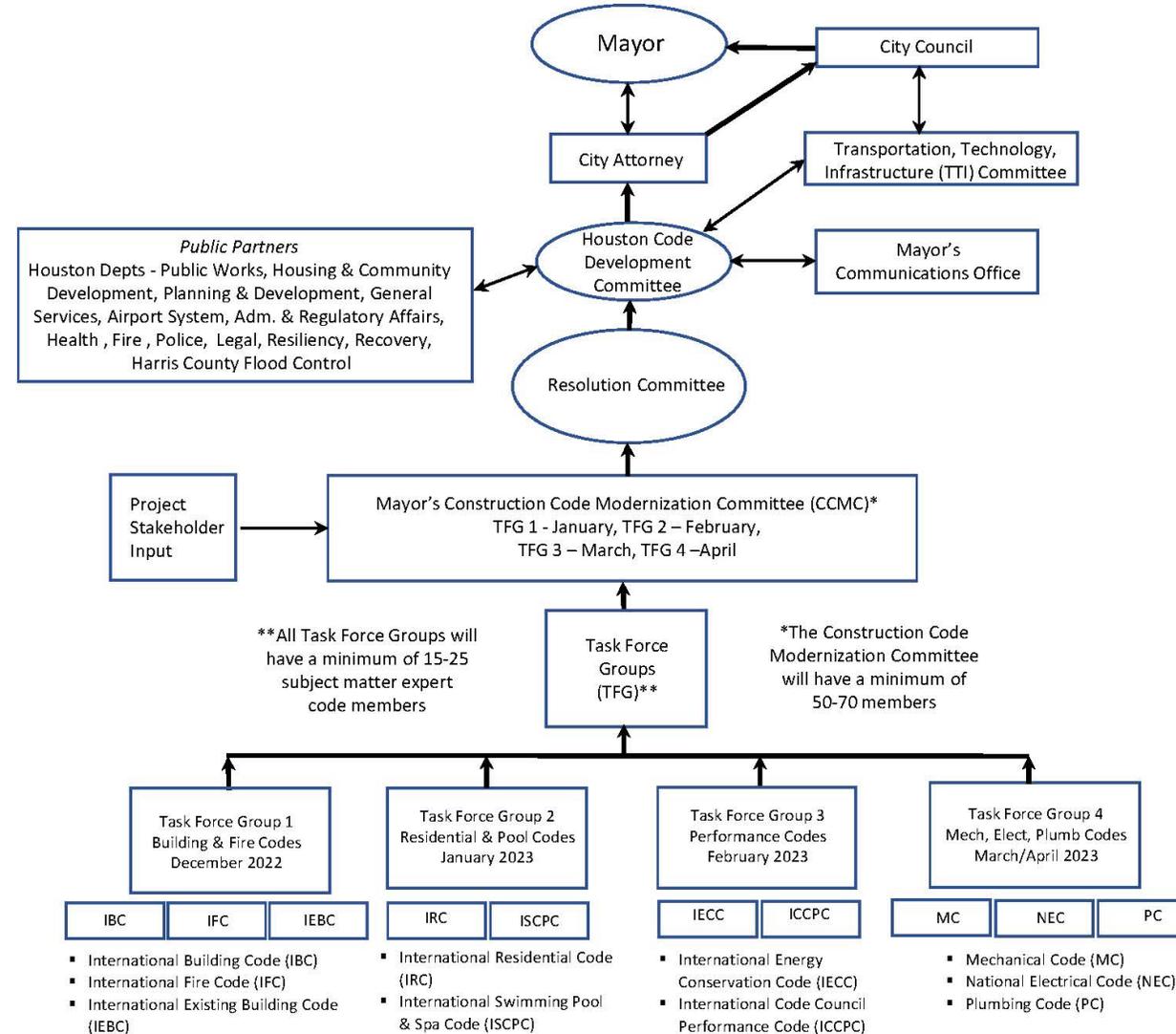
- **Public Works**
- **Housing & Community Development**
- **Planning & Development, General Services**
- **Airport System**
- **Adm. & Regulatory Affairs**
- **Fire**
- **Legal**
- **Resiliency and Recovery**
- **Mayor’s Office of Communication**

Houston Permitting Center:

- **Building Official**
- **Customer Service and Code Development (CACD)**
- **Inspectors**
- **Plan Reviewers**
- **Mechanical, Electrical & Plumbing**
- **Structural**
- **Fire Protection / Life Safety**
- **Office of the City Engineer**

CCM ORGANIZATION/PROCESS CHART

City of Houston Construction Code Process/Organization Flow Chart



CCM WEBSITE -

WWW.HOUSTONPERMITTINGCENTER.ORG/CONSTRUCTION-CODE-MODERNIZATION

3 Ways to Participate:

- 1. Receive updates via our newsletter and by direct emails**
- 2. Sign up to serve on a Task Force Group (TFG) or to serve on the Construction Code Modernization Committee (CCMC).**
- 3. Submit a code amendment**

CCM – HOW TO JOIN A COMMITTEE *LOOKING FOR CODE EXPERTS!*

1. Visit www.houstonpermittingcenter.org/construction-code-modernization and click on **JOIN A COMMITTEE**.
 - Our selection process is to ensure the entire development and design community is engaged and represented.
 - Our goal is to create inclusive, diverse groups with as many associations and organizations engaged with construction codes so that everyone can be at the table sharing their organization's insights into the codes as well as their specific interest.

CCM – HOW TO SUBMIT A CODE AMENDMENT

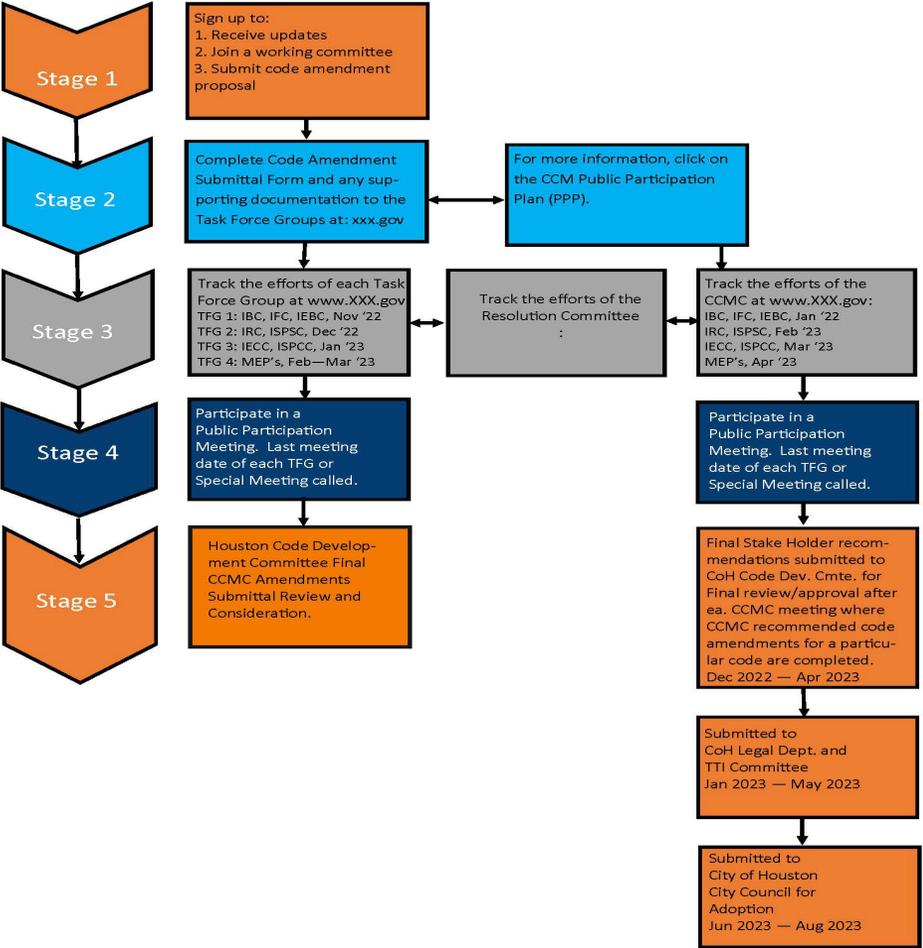
- 1. Visit www.houstonpermittingcenter.org/construction-code-modernization and click on ***CODE AMENDMENT SUBMITTAL FORM.*****
- 2. Review all the instructions then complete the survey.**
- 3. Each code amendment submittal form, completed one per code change request, will be gathered, tracked, and recorded for use by the Houston Code Development Committee.**

CCM ORGANIZATION PROCESS CHART

For updates, calendar of events, amendment submittals
Visit <https://www.houstonpermittingcenter.org/construction-code-modernization>



Houston's Construction Code Modernization (CCM) Code Adoption Process





Now, more than ever, we must be at our strongest and most resilient as we Build Houston Forward.

TOGETHER WE CREATE A STRONG FOUNDATION FOR HOUSTON TO THRIVE!

thank you!



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