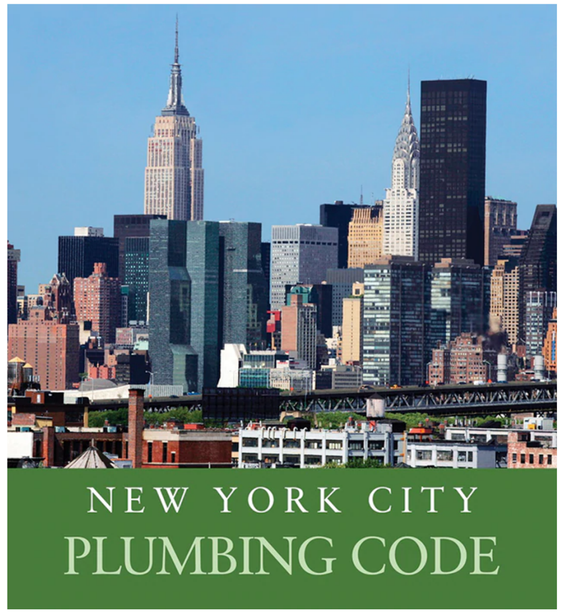
2022 New York City Plumbing Code Part 1

ASPE NYC Chapter Monthly Meeting
April 6, 2022, 5:30pm – 6:30pm
Stout NYC, 133 West 33rd Street, NY, NY
Presented by Philip F. Parisi Jr., P.E.

TODAY'S AGENDA

1. CODE REVISION COMMITTEE STRUCTURE
2. CODE REVISION CYCLE PROCESS
3. 2022 CONSTRUCTION CODE REVISIONS
4. PLUMBING CODE REVISION OVERVIEW
5. PLUMBING CODE (PC) REVISIONS
   - A. PRIMARY ASSIGNMENTS
     - PC CHAPTERS 1 - 15
     - PC APPENDICES
   - B. SECONDARY ASSIGNMENTS
     - BC CHAPTERS 12, 15, 17, Appendix G
     - ADMINISTRATIVE CODE 28-408 & 28-409



Code Revision Committee Structure

- **Consensus-Based Approach**
  - Members work together to find a mutually acceptable solution.
- **Assistant Commissioner of Technical Affairs**
  - Responsible for overseeing the Construction Codes revision cycle.
- **Managing Committee**
  - Responsible for reviewing technical and advisory committee proposals.
  - Consists of the Chairs, Vice Chairs of the Managing, Technical and Advisory Committees.
  - Also consists of representatives from construction, labor, real estate, government, professional organizations and other industry stakeholders.
  - May require guess experts and working panels.

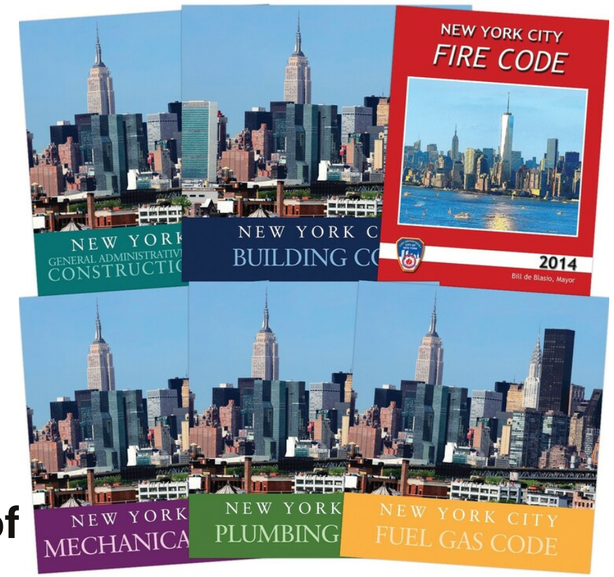
Code Revision Committee Structure

➢ Technical Committees

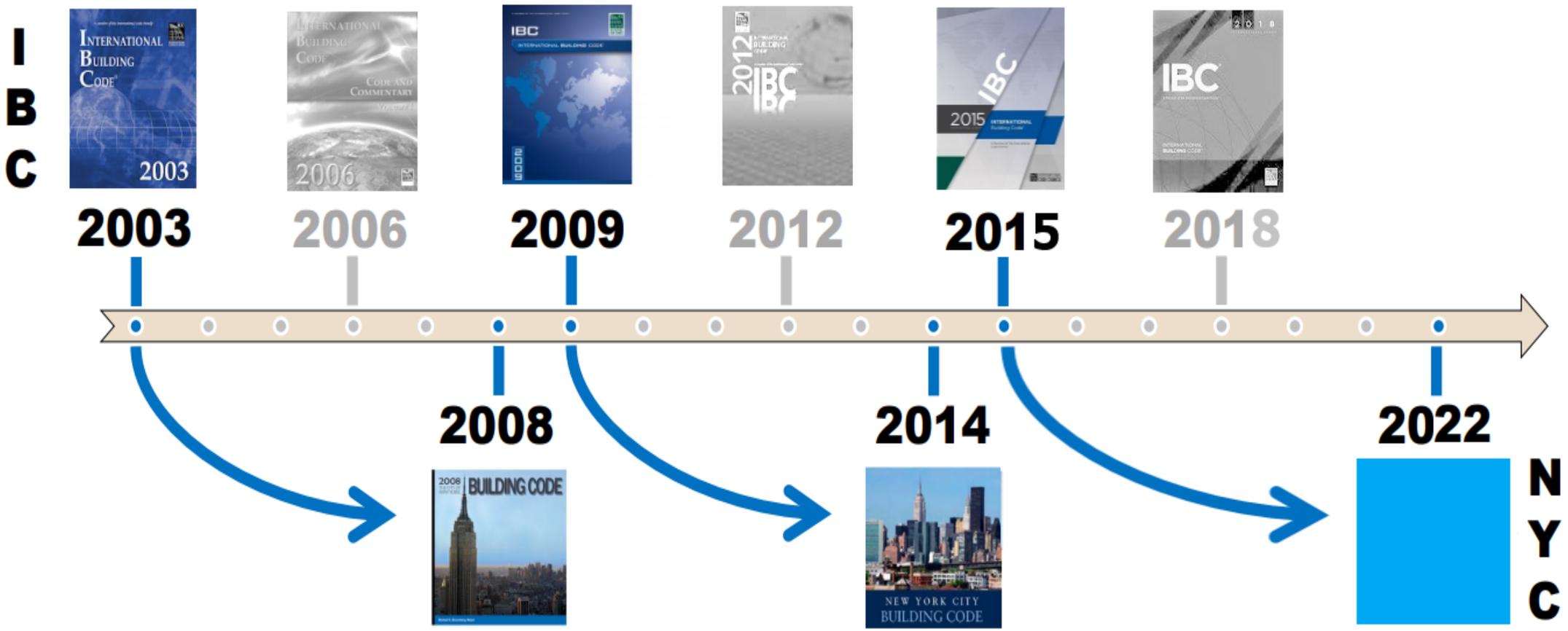
- ➢ Consists of 20-25 members including a Chair, Vice Chair and other members from construction, labor, real estate, government, professional organizations and other industry stakeholders. May include guest experts or working panels.
- ➢ Responsible for reviewing specific chapters of the NYC Construction Codes and crafting, modifying or developing proposed language.
- ➢ Focuses on primary and secondary assignments.

➢ Advisory Committees

- ➢ May be formed at the discretion of the Assistant Commissioner to consider portions of the code and issues that relate Department operations, inspection, permits, fees, etc.
- ➢ Is not required to achieve consensus. Recommendations will be considered but not binding.



Code Revision Cycle Process



Code Revision Cycle Process

- **Department Review**
  - The Department of Buildings (DOB) reviewed the 2014 NYC Construction Codes referenced 2015 I-Codes with reference standards.
- **Presentation of Proposed Revisions**
  - The DOB presents to the Technical Committee or Advisory Committee the proposed language to be utilized for review.
- **Committee Review of Proposed Revisions**
  - The technical or advisory committee will review, discuss, modify and come to consensus on language.
  - Ad-Hoc Working Meetings – if necessary will form working groups to further develop specific code language.

Code Revision Cycle Process

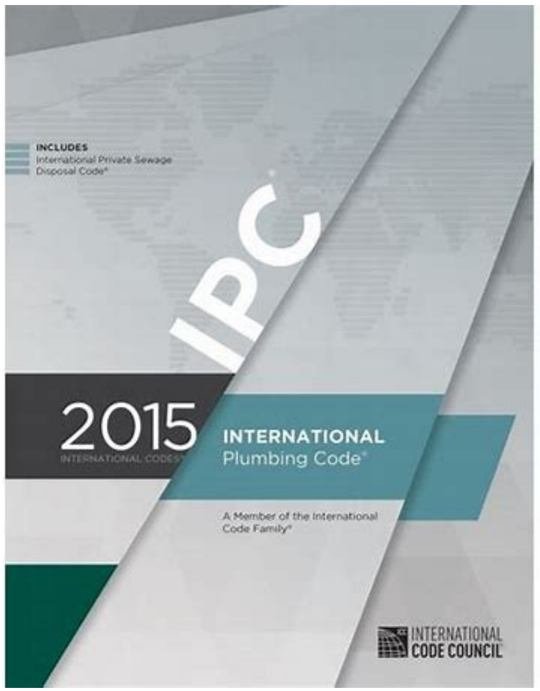
- **Legal Review**
  - **All proposed revisions from the technical and advisory committees are reviewed by the Law Department. Once approved it's sent to Managing Committee for presentation.**
- **Managing Committee Review**
  - **Proposed local law text that contains Code revisions are forwarded for review and ultimately accepted for inclusion in a bill to be submitted to City Council.**
- **Mediation**
  - **When the technical committee cannot achieve consensus.**
  - **When rejected by the Managing Committee.**
  - **Avoided where possible.**

Goals for 2022 Code Revision Cycle

- Assembled Committees and kickoff began March 2017
- Submit Revisions to the City Council beginning EOY 2018
- Revisions utilize the 2015 I-Codes with NYC Modifications
- Achieve Consensus and Avoid/Limit Mediation
- Plumbing Committee
  - Consisted of 41 members including Chair and Vice Chair, Alternate Members and Guest Experts
  - Meetings were conducted bi-weekly kicking off July 2017.
  - Responsible for entire Plumbing Code, Building Code Chapter 29, Fuel Gas Code Chapters 4, 7 & Appendices E & G.

Overview

- **NYC Plumbing Code**
  - **Revisions Began September 2017 & Completed June 2019**
  - **Incorporated in Intro No. 1481-A for City Council Submission**
  - **Became Local Law 14 of 2020 (waiting on balance of NYCCC)**
  - **IPC edition standard has been updated from 2009 to 2015**
- **NYC Fuel Gas Code**
  - **Revisions Begin February 2019 & Completed June 2019**
  - **Incorporated in Intro No. 2261 for City Council Submission**
  - **Became Local Law 126 of 2021 (includes balance of NYCCC)**
- **NYC Existing Building Code is progressing, submission to City Council September 2022.**



NYC PLUMBING CODE REVISIONS

THE NEW YORK CITY COUNCIL
Adrienne E. Adams, Speaker

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File #	Law Number	Type	Status	Committee	Prime Sponsor	Council Member Sponsors	Title
Int 2264-2021	2021/148	Introduction	Enacted	Committee on Housing and Buildings	Robert E. Cornegy, Jr.	4	A Local Law to amend the New York city building code, in relation to cold-formed steel construction
Int 2276-2021	2021/149	Introduction	Enacted	Committee on Housing and Buildings	Francisco P. Moya	3	A Local Law to amend the New York city building code, in relation to construction superintendents
Int 2261-2021	2021/126	Introduction	Enacted	Committee on Housing and Buildings	Robert E. Cornegy, Jr.	4	A Local Law to amend the administrative code of the city of New York, the New York city plumbing code, the New York city building code, the New York city mechanical code and the New York city fuel gas code, in relation to bringing such codes and related provisions of law up to date with the 2015 editions of the international building, mechanical, fuel gas and plumbing codes, with differences that reflect the unique character of the city, clarifying and updating administration and enforcement of such codes and the 1968 code and repealing chapters 2 and 35, appendices K and M, section N102 of

November 7, 2021
Council approval
LL 126 of 2021*

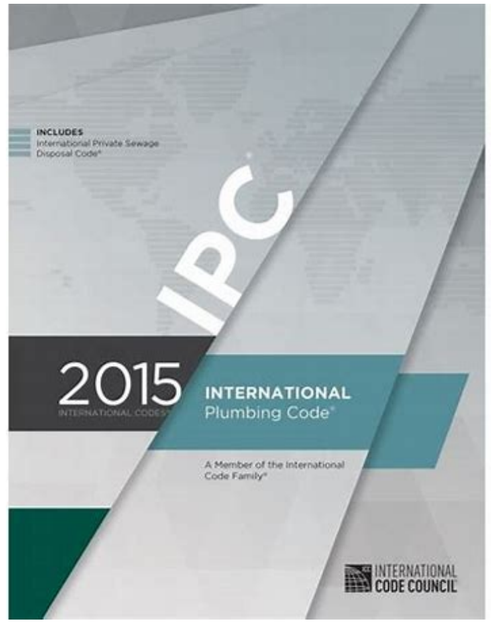
12 Months

Implementation & Training

November 7, 2022
Effective date

ASPE American Society of Plumbing Engineers
NEW YORK CITY

ASSE SANITARY ENGINEERING Prevention Rather Than Cure ®



*Council approval also amends **Local Law 14 of 2020 (2022 NYC Plumbing Code)**

Chapter 1 – Administration

- **Section 102.2 – Existing installations**
  - **Existing systems lawfully in existence as of July 1, 2008 or the effective dates of any amendments to the PC may remain.**
- **Section 102.3 – Maintenance**
  - **Owner responsibility and commissioner authority to require inspections is removed.**
- **Section 105 – Approvals**
  - **New section added with reference to Title 28 of the Administrative Code for approvals.**
- **Section 106.6 – Other permits**
  - **Bullet 2: Permits for building sewer was clarified to be obtained from NYC DEP.**
  - **Bullet 5: Added clarification how to obtain temporary connection permits from the DEP.**

Chapter 1 – Administration

- **Section 106.7 – Permits limited alteration applications**
  - Section added to provide reference to Sections 28-101.5 & 28-104.6 Exception 1.
- **Section 107.4 – Building classification statement**
  - Added requirement to provide NYCBC statement if building is in/out of flood hazard area.
- **Section 107.6.2 – Stormwater – Exceptions**
  - Bullets 1 & 2: Construction documents are required to show the increase in impervious area.
  - Bullet 2: Clarification added to identify the increased area only for horizontal enlargements.
- **Section 107.11 – Retention of construction and submittal documents**
  - Section added to reference 28-104.11 for construction and submittal documents.

Chapter 1 – Administration

- **Section 108.2 – Required inspections and testing**
  - **1.1: Revision clarifies testing of installed piping shall be made before backfill. This revision also includes provisions for clean backfill required where excavated soil is unacceptable.**
  - **1.2: Clarifies that permanently exposed piping is exempt from rough-in inspection.**
- **Section 108.2.2 – Inspection of prefabricated construction assemblies**
  - **An approved-agency evaluation report of individual prefabricated construction assemblies is required prior their approval.**
- **Section 108.2.2.1 – Test and inspection records**
  - **Added section that test and inspection records shall be made available to the commissioner at all times during installation or construction.**

Chapter 1 – Administration

- **Section 108.3.1 – Periodic Inspection**
  - **Periodic inspection required to confirm work is performed in accordance with the approved construction documents for alternative engineered systems.**
- **Section 108.3.2 – Written report**
  - **Final reports must verify the installation complies with the construction documents.**
- **Section 108.4.1 – New, altered, extended or repaired systems**
  - **Bullet 5: Clarifies testing is not required in accordance with exceptions in Section 312.1.**

Chapter 2 – Definitions

- **Section 201.3 – Terms defined in other codes**
  - **Includes NYC Energy Conservation Code for additional definitions not listed in PC.**
- **Section 201.3.1 – Terms defined in the general administrative provisions**
  - **Section added to include 76 additional terms defined in Section 28-101.5 of the Administrative Code.**
- **Access To – added “device” as a reference in addition to fixtures etc.**
- **Alternative Engineered Design – references this code in its entirety.**
- **Backflow Preventer – clarified definition to include backflow prevention assembly, backflow prevention device or other means or method to prevent backflow into the potable water supply.**

Chapter 2 – Definitions

- **Building Drain** – removed 5 feet and replaced with piping that extends to the exterior face of the building wall or outlet of the most downstream trap, private manhold, catch basin, detention tank… directly to the building sewer.
- **Combination Waste and Vent System** – includes lavatories, drinking fountains or floor drains.
- **Existing Installation** – clarifies legal installation prior to July 1, 2008.
- **Grease Interceptor** – deleted “Flow Control” definition.
- **Joint** - Expansion loop clarified to use in buildings to address rapid changes in temperature.
- **Mechanical Joint** - Heat fusion is included in list of acceptable pipe connection methods.
- **Plumbing Appliance** - Plumbing appliances are specified as water or drain-connected devices.

Chapter 2 – Definitions

- **Plumbing Fixture** – Revised the definition to a device connected to the water supply or discharges to ta drainage system or both.
- **Ready Access** – Revised to include a device, similar to access to definition.
- **Building Sewer** – Revised to align with building drain definition.
- **Private Sewer** – removed extraneous reference to mapped street, sewer easement, etc.
- **Single-Occupant Toilet Room** – definition was expanded to include lavatory and individual use.
- **Storm Water or Stormwater** – Natural precipitation, including snow melt, that has contacted a surface at or below grade.

Chapter 2 – New Definitions

- **Cured-In-Place Pipe (CIPP) –** A repair method utilizing a tube inverted into existing conduit, or the spraying of epoxy directly onto the walls of the pipe.
- **Demand Recirculation Water System –** A system where one or more pumps prime the service hot water piping with heated water upon a demand for hot water.
- **Drinking Fountain –** a fixture connected to the potable water distribution system that drains to an approved point of disposal and allows for drinking without the use of accessories.
- **Flow Control (Vented) –** A device installed upstream from the interceptor with an orifice that controls flow rate and an air intake that allows air to be drawn into the flow system.
- **Food Waste Disposer –** An electric device installed between a sink's drain and trap for grinding food waste and disposing of such waste through the plumbing drainage system.

Chapter 2 – New Definitions

- **Gray Water –** Discharge from lavatories, bathtubs, showers, clothes washers, and laundry trays.
- **Nonmedical Gas System –** The complete system to convey nonmedical gases which are not for patient or industrial application or from a central supply system.
- **Nonpotable Water –** Water not safe for drinking, personal, or culinary utilization.
- **On-Site Nonpotable Water –** Nonpotable water from other than public utilities, on-site surface sources and subsurface natural freshwater sources, including gray water, on-site reclaimed water, rainwater, condensate and water from reverse osmosis systems.
- **On-Site Nonpotable Water Reuse System –** A water system for the collection, treatment, storage, distribution and reuse of nonpotable water generated on site.

Chapter 2 – New Definitions

- **Rainwater** – Water from natural precipitation.
- **Toilet Facility** – A room or space that contains not less than one water closet and one lavatory.
- **Wall-Hung Water Closet** – A water closet installed such that it does not touch the floor.
- **Waste Receptor** – A floor sink, standpipe, hub drain, or floor drain that receives the discharge of one or more indirect waste pipes.
- **Water Closet Compartment** – An enclosed space with walls or partitions and a securable door that does not contain plumbing fixtures in excess of one water closet.
- **Water Pipe, Conveyance** – A pipe within the structure or on the premises that conveys water from a source to points of utilization, and including piping to and from storage containers. Such piping shall be used only in nonpotable water systems, including water recycling and irrigation.

Chapter 3 – General Regulations

- **Section 301.3 – Connections to the drainage system**
  - Removed exception for fixtures discharging wastewater to a water recycling system.
- **Section 301.6 – Prohibited locations, Elevator Shafts**
  - Floor drains, sumps, & sump pumps must comply with Section 1003.4 in order to be exempt.
- **Section 303.1 – Identification**
  - Added the requirement for markings required by the applicable reference standards.
- **Section 303.4 – Third-party Identification Requirement**
  - Products and materials shall be in accordance with Section 303.1, not Table 303.4 (removed).
- **Section 304.4 – Opening for pipes**
  - Clarified the requirements for annular space caulking or gasketing systems.

Chapter 3 – General Regulations

- **Section 305.1 – Corrosion**
  - Includes pipes encased in corrosive materials as well as those passing through.
- **Section 305.4 – Sleeves (removed)**
- **Section 306.3 – Backfilling**
  - Added requirements for progress inspections in accordance with Section 108.
- **Section 307.2 – Loading (new)**
  - Requires verification that members can support any additional loads resulting from alterations.
- **Section 307.3 – Cutting, notching and boring (new)**
  - The cutting, notching and boring of structural elements shall be in accordance with the limitations specified in Appendix C.

Chapter 3 – General Regulations

- **Section 307.5 – Trusses**
  - **Section pertains to all trusses regardless or material.**
- **Section 307.5 – Trench Location (deleted)**
- **Section 307.6 – Protection of footings (new)**
  - **Trenches installed parallel to footings and walls shall not extend into the bearing plane of a footing or wall.**
  - **The upper boundary of the bearing plane is a line that extends downward, at an angle of 34 degrees from horizontal, from the outside bottom edge of the footing or wall.**
- **Section 307.7 – Piping materials exposed within plenums**
  - **Compliance with NYC Mechanical Code required.**

Chapter 3 – General Regulations

- Table 308.5 – Hanger Spacing
  - Steel pipe support at base and each story no greater than 15 feet.
- Section 308.5.1 – No-hub type cast iron soil pipe Support (new)
  - Intervals of support shall comply with CISPI 310.
- Section 308.5.2 – Movement (new)
  - Piping systems and supports shall account for thermal expansion and contraction, building movement, and seismic conditions.
- Section 308.6.1 – No-hub type pipe, fittings, and couplings (new)
  - Compliance with CISPI 310 for sway brace installation on no-hub cast iron.
- Section 308.9 – Parallel water distribution systems (deleted)

Chapter 3 – General Regulations

- Section 309.2 – Flood hazard – added reference to Appendix G.
  - Exception added to permit installation below DFE with waterproofing provisions.
- Section 309.3 – Coastal high-hazard areas & coastal A zones (renamed)
- Section 310.2 – Location of fixtures and compartments
  - Plumbing fixture locations and compartment requirements reference to Section 405.
- Section 310.4 & 310.5 – Water closet compartment & Urinal partitions (removed)
- Section 312.1 – Required tests
  - Exception allowing visual inspection for alterations to existing piping modifications.
  - Increased exception to five (5) plumbing fixtures without testing.

Chapter 3 – General Regulations

- **Section 312.3 Drainage and air vent test**
  - **Added limitation to plastic piping shall not be tested using air.**
- **Section 312.5 – Water supply system test**
  - **Added requirement for testing pressure to be held for at least 15 minutes.**
- **Section 312.6 – Gravity sewer test (deleted)**
- **Section 312.7 – Forced drain tests**
  - **Clarified wording changed to pump discharge in lieu of building sewer.**
- **Section 312.8 – Storm drainage system test**
  - **Clarifies that testing is required regardless whether storm drain systems are within the building.**
  - **Exception includes all exterior storm drainage, but required after inspection before backfilling.**

Chapter 3 – General Regulations

- **Section 312.11 – Joint inspection (new)**
  - Welded joints shall be visually inspected as appropriate.
  - Supplementary inspection methods are not required unless specified by engineer.
- **Section 312.11.1 – Welder's qualifications (new)**
  - Welders shall be qualified in accordance with *ASME Boiler and Pressure Vessel Code*, Section IX.
  - The licensed master plumber employing the welder shall maintain a continuity log and make it available to the department upon request.
  - Welder qualification testing shall be performed by an approved agency and witnessed by an AWS Certified Welding Inspector.
  - Welder qualification reports must be maintained and made available upon request.

Chapter 3 – General Regulations

- **Section 314.1 – Fuel-burning appliances**
  - Condensate piping shall be in accordance with Section 803.
- **Section 314.2 – Evaporators and cooling coils**
  - Exception provided for evaporators and cooling coils designed to operate in sensible cooling only.
- **Section 314.2.2 – Drain pipe materials and sizes**
  - Polybutylene piping is no longer permitted and Polypropylene tubing may be used in lengths > 12”.
- **Section 314.5 – Drain line maintenance (new)**
  - Condensate drain lines required to have cleanouts for clearing of blockages.
- **Section 314.2.6 – Condensate discharge (new)**
  - Condensate piping shall be piped to prevent discharge from one appliance to another.
- **Section 315.1 – Sealing of Annular Spaces (new)**
  - Provides sealing requirements for annular space. When penetrating fire-resistance-rated assemblies, Section 714.

Chapter 4 – Fixtures, Faucets & Fittings

- **Table 403.1 – Minimum number of required plumbing fixtures**
  - **Libraries no longer included under A-3d assemblies and moved to E.**
  - **Number of female water closets for A-4 occupancy areas is 1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520.**
  - **Lodging houses with 5 or fewer guestrooms are included under R-3 occupancy group.**
  - **Footnote for drinking fountains deleted.**
  - **New footnote, service sinks not required for business occupancies with loads of 15 or fewer.**
  - **Libraries shall comply with fixture counts for Group B occupancies.**

Chapter 4 – Fixtures, Faucets & Fittings

- **Section 403.1.1 – Fixture calculations**
  - Clarification was providing in preparing fixture counts applied to the occupancy load.
- **Section 403.2.1 – Family or assisted-use toilet facilities (new)**
  - This permits the use of two family or assisted-use toilet facilities as separate facilities for buildings.
- **Section 403.3.2 – Prohibited toilet room location (new)**
  - Toilet rooms shall not open directly into a room used for food preparation.
- **Section 403.3.6 – Door locking (new)**
  - Multiple-occupant toilet rooms not for family or assisted use shall not be lockable from the inside.
- **Section 403.4.1 – Directional signage**
  - Added signage for toilet facilities in the lobby and any area readily seen from the main entrance.

Chapter 4 – Fixtures, Faucets & Fittings

- **Section 403.5 – Drinking fountain location**
  - Clarifies drinking fountains are not required in tenant spaces, provided they are located on each story within 500ft of the most remote space (300ft for covered or open malls).
- **Section 404.2 – Accessible fixture requirements**
  - Accessible plumbing fixtures shall be installed in accordance with ICC A117.1.
- **Section 404.3 – Exposed pipes and surfaces**
  - Water pipes under sinks shall protect against contact and shall comply with ASME A112.18.9.
- **Section 405.3.3 – Location of fixtures and piping (new)**
  - Piping, fixtures, or equipment shall not interfere with windows, doors, or egress openings.

Chapter 4 – Fixtures, Faucets & Fittings

- **Section 405.3.4/405.3.5 – Water closet compartment/Urinal partition (new)**
  - **Clarifies requirements for separate compartments for water closets and urinal partitions.**
  - **Exception added single occupant toilet rooms, day care facilities and I-3 housing.**
- **Section 405.7 – Design overflows (new)**
  - **Exception provided for existing overflows for bathtubs utilizing standing wastes.**
- **Section 407 (Bathtubs), 408 (Bidets) – clarification with requirements and listings.**
- **Section 409 – Dishwashing Machines**
  - **Added the requirements that commercial dishwashers with gas-fired heating must be tested and evaluated in accordance with UL 921.**

Chapter 4 – Fixtures, Faucets & Fittings

- **Section 410.2 – Drinking Fountains in Small Occupancies**
  - **Drinking fountains are not required for occupancies of 15 or fewer, this was moved from Table.**
- **Section 412.2 – Floor drains**
  - **Strainer shall no longer be required to have open grate area > the area of the tailpiece.**
- **Section 413 – Food waste disposer units (renamed)**
  - **Domestic food waste disposers shall be listed and labeled in accordance with UL 430.**
  - **Commercial food waste disposers shall be prohibited unless approved by DEP. (new)**
- **Section 417.5.2.6 – Showers – Liquid Type trowel applied materials**
  - **Added listing requirements for liquid-type, trowel-applied, load-bearing, bonded waterproof materials conforming to ANSI A118.10 and manufacturer's instructions.**

Chapter 4 – Fixtures, Faucets & Fittings

- Section 418.2 – Sink Waste Outlets
  - Waste outlet size decreased from 2” to 1.5” to address discrepancy between trap & tailpiece.
- Section 422.1 – Scope of health care fixtures and equipment
  - Added “hospitals” and “animal care facilities” as scope under the plumbing code.
- Section 423.3 – Footbaths, pedicure baths and head shampoo sinks (new)
  - Water supplied to fixtures in this section shall be limited to a max. temperature of 120°F by a water temperature limiting device.
- Section 424.3 – Individual shower valves
  - Added prohibition to In-line thermostatic valves utilized for compliance with this section.
- Section 424.5 – Bathtub and whirlpool bathtub valves
  - Added a reference to bathtubs equipped with hand-held showers.

Chapter 4 – Fixtures, Faucets & Fittings

- **Section 424.9 – Water closet personal hygiene devices (new)**
  - **Added conformance requirements of ASME A112.4.2.**
- **Section 428.1.1 – Potable water prohibited for once through cooling**
  - **Ice makers, coolers, and walk-in refrigerators are exempt if installed in accordance with RCNY Title 15 Chapter 20 Section 20-06. (new)**
  - **Once-through cooling is permitted for temporary emergency conditions where approved by commissioner. (new)**

Chapter 5 – Water Heaters

- **Section 501.2 – Space Heating Water heaters (revised)**
  - **Compliance with Section IV of ASME B & PVC with and "H" Stamp.**
  - **Heaters shall be installed in accordance with mfg instructions and NYC Mechanical Code.**
- **Section 501.2.1 – Cross connection**
  - **Heating hot water systems shall not be cross-connected and potability maintained.**
- **Section 501.2.2 – Sizing**
  - **Heaters shall be sized to for both the heating and potable water load.**
- **Section 501.2.3 – Temperature limitation**
  - **A temperature actuated mixing valve compliant with ASSE 1017 shall be provided.**
- **Section 501.3 – Drain Valves**
  - **Drain valve minimum ¾" and provided with male garden hose threads.**

Chapter 5 – Water Heaters

- **Section 501.9 – Supplemental water-heating devices (new)**
  - **Devices utilizing refrigerant-to-water heat exchangers shall be approved and installed in accordance with PC, manufacturer's instructions, and NYC Energy Conservation Code.**
- **Section 502.1 – General installation**
  - **Added compliance with UL732 is required.**
  - **DEP approval required for oil-fired heaters with 350,000Btu/h input or greater.**
  - **Added compliance with UL174, UL1453 and UL1453 for dom. & commercial electrical heaters.**
- **Section 504.4.1 – Relief Valve Installation**
  - **Adds relief valve conforming to ANSI Z21.22 shall be installed on both the tank and heater.**
- **Section 504.6 – Relief Valve Discharge Piping**
  - **Termination no more than 6 inches but not less than 2 pipe diameters above floor/flood rim.**

Chapter 5 – Water Heaters

- **Section 504.7.1 – Pan size and drain**
  - **Exception added not requiring a pan drain for a replacement water heater where a pan drain was not previously installed, provided that a leak detector is installed within the pan.**
- **Section 505.1 – Unfired vessel insulation**
  - **Insulation shall be in accordance with NYC Energy Conservation Code and removed specific insulating units from the plumbing code.**

Chapter 6 – Water Supply & Distribution

- **Section 601.5 – Rehabilitation of piping systems (new)**
  - **Added Cured-in-place pipe (CIPP) and epoxy spray pipe lining systems are prohibited.**
- **Section 601.7 – Destruction of abandoned corporation stops and wet conditions**
  - **Removal shall be accordance with DEP regulations added.**
- **Section 603.2 – Separation from water service**
  - **Clarifies that underground water piping requires separation from sewer.**
- **Section 603.5.1 – Separate supply (new)**
  - **A separate tap and service shall be installed for each building in accordance with the DEP.**
- **Section 603.5.2 – Connections (new)**
  - **Connections to street mains must be made by DEP employees at the property owner's expense.**

Chapter 6 – Water Supply & Distribution

- **Table 604.3 – Water distribution system design criteria**
  - **Flow & pressures for lavs, showers and sinks have been updated 8psi and 1.5 gpm to 2 gpm.**
  - **New footnote added: Where the shower mixing valve manufacturer indicates a lower flow rating for the mixing valve, the lower value shall be applied.**
- **Table 604.4 – Maximum Flow Rates and Consumption**
  - **Updated flow rates for metering (0.5gpc) and non-metering public lavs (0.5gpm).**
- **Section 604.4.1 – WaterSense Label - Exception for public restroom water closets is removed.**
- **Table 604.5 – Minimum sizes of fixture water supply pipes**
  - **Specifications added for one-piece water closets.**
- **Section 604.10.1 – Manifold sizing (deleted)**

Chapter 6 – Water Supply & Distribution

- **Section 605.3 – Water service pipe**
  - **Both subsurface and above-ground pipe shall conform to DEP and table deleted.**
- **Section 605.4.1 – Underground water distribution pipe table (new)**
  - **Pipe shall conform to NSF 61 and one of the standards listed in Table 605.4.1.**
- **Table 605.4.1 – Underground water distribution pipe (new)**
  - **Table added with pipe materials and their respective standards for underground piping.**
- **Section 605.5 - Fittings**
  - **Cement mortar lining requirement for ductile and gray iron pipes is removed.**
- **Table 605.5 – Fittings**
  - **Brass fitting reference standards were added to the table.**

Chapter 6 – Water Supply & Distribution

- Section 605.7 – Valves (new table)
  - Added reference standard for valves intended to supply drinking water shall comply with NSF 61.
  - New table with valve materials and their associated standards, copper, gray/ductile iron, stainless.
- Section 605.9 – Prohibited joints and connections
  - Added removable press-connect, push-fit, nail-type, and compression type fittings are prohibited.
- Section 605.14.3 – Solder joints (removed from copper pipe)
- Section 605.14.3 – Grooved and shouldered mechanical joints (new)
  - Joints shall comply with ASTM F 1476, be made with approved elastomeric seal and be installed in accordance with the manufacturer's instructions and may be exposed or concealed.
- Section 605.14.5 – Press-connect joints
  - Joints conform to standards listed in Table 605.5 and installed according to manufacturer's instructions.
  - Cut tube ends shall be reamed to the full inside diameter of the tube end.

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- **Section 605.23.3 – Grooved & Shouldered Mech Joints (new)**
  - Added section to recognize grooved and shouldered mechanical joints with reference standard.
- **Section 605.24 – Joints between different materials**
  - Eliminated the elastomeric seal requirement for connectors and adapters.
- **Section 606.3 – Access to valves**
  - Removed “ready” access for valves and added full-open and shutoff valves.
- **Section 606.5 – Water pressure booster and gravity house tank systems**
  - Section expanded to include gravity house tank systems.
- **Section 606.5.3 – Water Tank Covers**
  - Water supply tanks shall have lockable, tamper-proof covers equipped with a local alarm.

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- **Section 606.5.4 – Overflows for water supply tanks**
  - **Overflow outlets shall be covered with corrosion-resistant screens or terminate in a horizontal angle seat check valve. Drainage shall be directed to avoid freezing on roof walks.**
- **Table 606.5.4(2) – Size of weirs for gravity and suction tanks (deleted)**
- **Figure 606.5.4 – Overflow from gravity house and suction water supply tanks**
  - **Overflow weir detail removed from figure.**
- **Section 606.5.4.2/606.5.4.3 – Emptying tank drainage/Prohibited location (deleted)**
- **Section 606.5.4.2 – Design - Supply tank linings must comply with NSF 61 standards.**
- **Section 606.5.7 – Tank drain pipes and Table 606.5.7 (new)**
  - **A valved pipe shall be provided at the lowest point of each tank or compartment.**

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- **Section 606.5.8 – Prohibited location of potable water supply tanks**
  - **Section expanded to include manholes of potable water pressure tanks.**
- **Section 606.8 – Water sub-meters required**
  - **Additional requirement to provide sub-meters on makeup water lines to boilers with inputs greater than 2.8 million btu/h. The Meter must also be approved by the DEP.**
  - **Exception provided to exclude R-3 occupancies of this requirement.**
- **Section 607.1.1 – Temperature limiting means**
  - **Water heater thermostats shall not serve as the means of limiting temperature.**

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- **Section 607.2 – Hot or tempered water supply to fixtures**
  - **Developed length of piping shall not exceed 20ft or the maximum length in accordance with NYC Energy Conservation Code.**
- **Section 607.2.1.1 – Pump controls for hot water storage systems**
  - **Pump controls shall limit operation from heating cycle startup to no more than 5 minutes after the end of the cycle.**
- **Section 607.2.1.2 – Demand recirculation controls for distribution systems**
  - **Defines demand recirculation systems as those having one or more recirculation pumps.**
  - **Pump controls shall start upon receiving a signal and shall limit the temperature of water entering cold water piping to 104°F.**

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- **Section 607.3 – Thermal expansion control**
  - **Thermal expansion tanks shall be sized in accordance with the tank manufacturer's instructions and shall be sized so that pressures comply with Section 604.8.**
- **Section 607.5 – Insulation of piping**
  - **NYC Energy Conservation Code standards provided for insulation in residential and nonresidential occupancies.**
- **Section 608.2 – Plumbing fixtures**
  - **Additional backflow protection standards provided.**
- **Section 608.6 – Cross connection control**
  - **Approved protective devices specified as backflow prevention assemblies and similar devices.**

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- **Section 608.8 – Identification of nonpotable water systems**
  - **Colored tape may be used as an alternative to metal tags for marking piping.**
- **Section 608.8.1 & 608.8.2 – Signage required/Distribution pipe labeling and marking**
  - **Signage and pictograph provided as required for display at nonpotable water outlets.**
- **Section 608.8.2.3 – Identification tape**
  - **Color and size requirements provided for nonpotable water identification tape.**
- **Section 608.11 – Painting of water tanks**
  - **Linings, paints, and repairs must conform to the Department of Health and Mental Hygiene.**
- **Section 608.13 – 608.13 Backflow protection**
  - **Secondary backflow prevention methods shall be tested and inspected according to Chapter 3.**

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- **Section 608.13.2/608.13.7 – Backflow prevention assemblies**
  - **Additional backflow preventer standards provided.**
  - **Annual testing by licensed NYC tester no longer required.**
- **Section 608.13.5 – Pressure vacuum breaker assemblies**
  - **Spill-resistant vacuum breaker assemblies shall comply with ASSE 1056.**
- **Section 608.13.6 – Atmospheric-type vacuum breakers**
  - **Conformance standards modified.**
- **Section 608.13.10 – Dual check backflow preventer**
  - **Dual check backflow preventers shall conform to ASSE 1024 or CSA B64.6.**

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- **Section 608.15.2 – Reduced pressure principle backflow prevention assembly**
  - **Outlets may be protected by reduced pressure principle fire protection backflow prevention assembly on potable water supplies.**
- **Section 608.15.4.1 – Deck-mounted and integral vacuum breakers**
  - **Section expanded to include spill-resistant vacuum breaker assemblies.**
- **Section 608.16.1 – Beverage dispensers**
  - **Section pertains to all beverage dispensers, not just carbonated drink dispensers.**
- **Section 608.16.2 – Connections to boilers**
  - **Atmospheric vent backflow preventer and makeup water line requirements have been removed.**
  - **Exception provided allowing atmospheric vents to be used in R-3 occupancy group buildings.**

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- Section 608.16.4 – Connections to automatic fire sprinkler and standpipe systems
  - Addition backflow devices required.
- Section 608.16.6 – Connections subject to back pressure
  - Only applies to connections to cooling towers and those subject to high-hazard backpressure.
- Section 609 – Healthcare plumbing
  - Section includes animal care facilities.
- Section 610.1 – General
  - Potable water systems are not required to be purged and disinfected after ordinary repairs.
- Section 611.1/611.2 – Design/Reverse osmosis systems
  - Additional reference standards provided.

Thank you for your attending!!