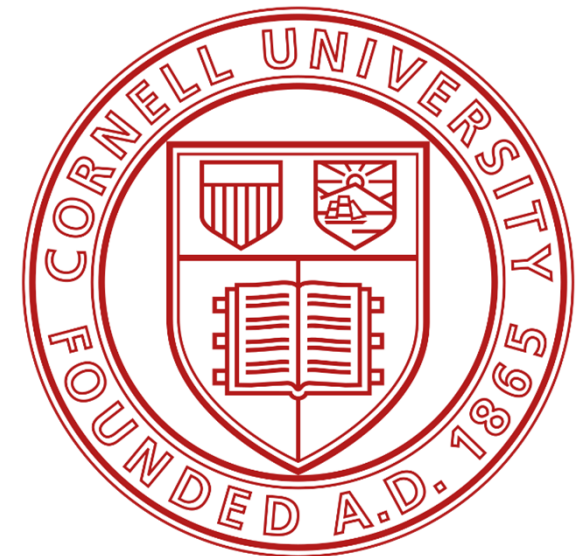


# FE Minute

*Presented by Tom Jordan*



*The Codes, The City, and Sprinklers  
....and Backflow Preventers*





# WOO HOO!

## The 2020 Codes are coming!



- Rumor has it....
  - Release Date                      November 1, 2019
  - Transition Date                      December 1, 2019
  - Enforcement Date                      March 1, 2020



# WOO HOO! The 2020 Codes are coming!



- The Good News
  - B Occupancy Higher-Ed laboratories section, now!
    - BCNYS – Section 428
    - Control areas are now allowed on floors above the 9<sup>th</sup>
    - More Control Areas (Lab Suites) per floor
    - Higher percentage of Maximum Allowable Quantities (MAQs) per lab suite



# WOO HOO! The 2020 Codes are coming!



- Any Bad News?
  - Not sure, yet....





# Sprinkler Agreements with City of Ithaca



- Sprinklers shall be provided on an as-renovated basis
  - Physical Sciences
    - Baker Lab
    - Clark Hall
  - Duffield Hall
    - ~~Upson/Grumman~~ (Done)
    - Phillips Hall





## Sprinklers in Existing High-Rise Buildings

- Sprinklers required **IN WORK AREA** if:
  - Occupant load is  $> 30$
  - Water supply is sufficient



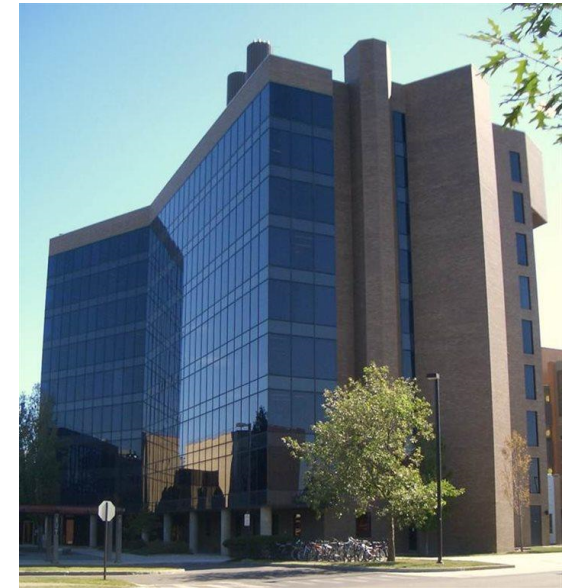
### §EBC804.2.1 High-rise buildings.

In high-rise buildings, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load **greater than 30** shall be provided with automatic sprinkler protection in the entire *work area* where the *work area* is located on a floor that has a **sufficient sprinkler water supply system from an existing standpipe or a sprinkler riser serving that floor**.

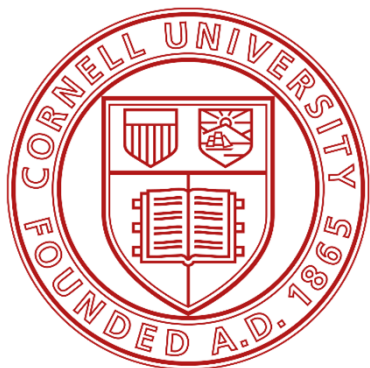


## Sprinklers in Existing High-Rise Buildings

- Sprinklers required on **ENTIRE FLOOR** if:
  - Work area exceeds 50%
  - Water supply is sufficient



**§EBC804.2.1.1 Supplemental automatic sprinkler system requirements.** Where the ***work area on any floor exceeds 50 percent*** of that floor area, Section EBC804.2.1 shall apply to the entire floor on which the *work area* is located.

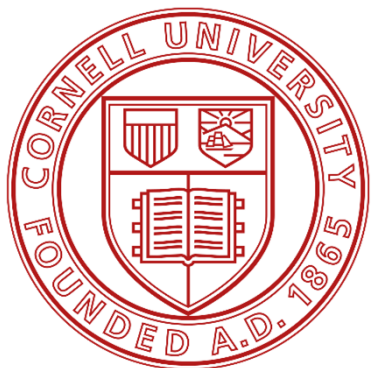


# Sprinklers in All Buildings, Regardless of Code Requirements

- Extend sprinklers to work area if existing building is:
  - Partially Sprinklered
  - Water supply is sufficient
- Required via:
  - CU Fire Protection Standard
  - FM Global
- FE can assist in evaluating during concept/budgeting phase

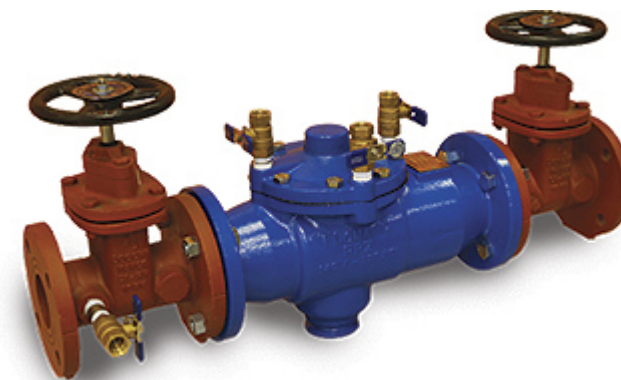




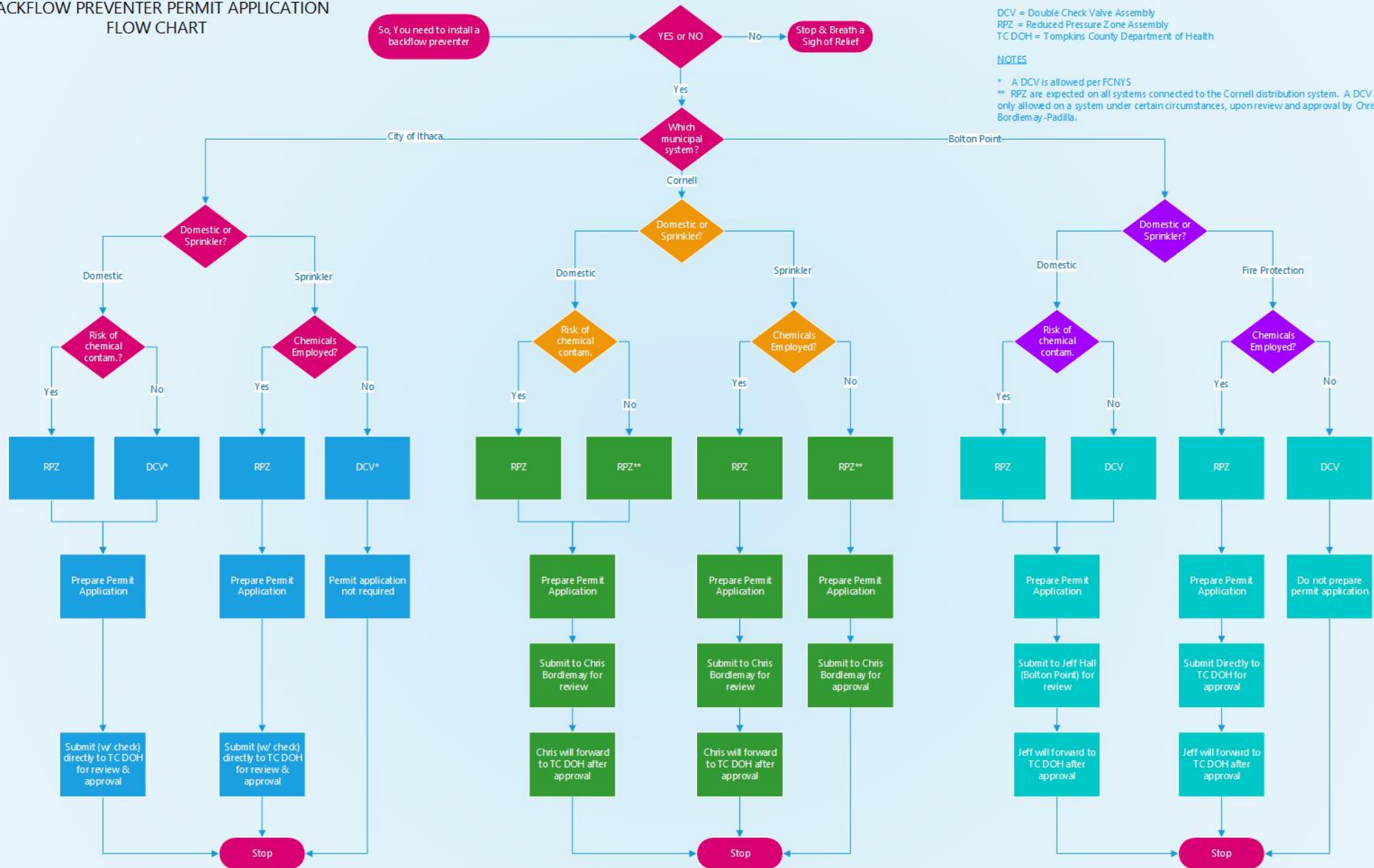


# Backflow Preventer Application Guide

- Everything you ever wanted to know about installing a backflow preventer in a CU building, in one handy flow chart!



## BACKFLOW PREVENTER PERMIT APPLICATION FLOW CHART



**LEGEND**

DCV = Double Check Valve Assembly  
 RPZ = Reduced Pressure Zone Assembly  
 TC DOH = Tompkins County Department of Health

**NOTES**

\* A DCV is allowed per FCNYS  
 \*\* RPZ are expected on all systems connected to the Cornell distribution system. A DCV is only allowed on a system under certain circumstances, upon review and approval by Chris Bordemay -Padilla.

# Questions?

