



# Lunch and Learn

Oct 2018

Lt. Howell



# TOPICS

- Annual inspections
- New Constructions (Renovations)
- Certificates



# ANNUAL INSPECTIONS

## ➤ Annual Inspections

- All educational occupancies inside un-incorporated Harris county are inspected annually
- Inspections are Life safety inspections
- Conducted to code by date of constructed ie.
  - 2006 International Fire Code (IFC)
  - 2012 IFC
  - Coming in March 2015 IFC!!!
- This may be different for different parts of the facility
  - New Buildings
  - New Fire alarm
  - New Sprinkler



# ANNUAL INSPECTIONS

## ➤ Annual Inspections

- Reports are produced and will show pictures of type of deficiencies if present
- If deficiencies exist, the reports will be distributed in this order
  - First report to ISD personnel assigned to accompany inspectors
  - Second report will be given to ISD administration to help facilitate corrections



Form: Annual School

### Harris County Fire Marshal

Occupancy: **Klein Intermediate School**  
Occupancy ID: **11072**  
Address: **4710 W Mount Houston RD**  
**Houston TX 77093**

Inspection Type: **352-Annual-School**

Inspection Date: **10/9/2018**

Time In: **07:45**

Authorized Date: **10/09/2018**

By: Herber, Samantha (95P29)

Time Out: **10:20**

By: Herber, Samantha (95P29)

Next Inspection Date: **11/08/2018 352-Follow Up**



# COMMON PROBLEMS

## ➤ Egress problems

- Maps don't match what class does
- Objects placed within egress routes
- Multiple routes on maps but not established in the classrooms

## ➤ Decorations

- 50% coverage inside classrooms
- 20% in egress routes
- Touching ceilings
- Suspended over egress routes



# COMMON PROBLEMS

## ➤ Blocking

- Extinguishers
- Pull stations
- Electrical panels and transformers

## ➤ Storage

- Too close to the ceiling area
- Large items stored in egress routes
- Custodial supplies in mechanical rooms



# COMMON PROBLEMS

## ➤ Electrical

- Extension cords in place of surge protectors
- Power cords under rugs
- Lamps not using appropriate bulbs
- 90 day use lights



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Design

- Submitted to Harris County Engineering (E-permits)
  - One year plan
  - Two year plan (phased projects)
- Time frame for review
  - Expectations
- Meetings
  - Who needs to be there



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Schedule

- Everything goes off when do you want the facility occupied
  - Not the first day of School!!!!!!
- Pre-construction meetings
  - Year – 8 Months out till time of construction
- Construction manager meeting
  - Right before construction
- Under ground / Cover-up inspections
  - When ready
- Preliminary inspection (additional fee)
  - Month before final



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Schedule continued

- Final inspection
  - Busiest time of the year
  - Month prior to occupancy (not first day of school)
    - Allow for OOPS time!

Note do not forget the Athletics department

We can not approve occupancy for part of a facility

- Inspection must be requested in E-Permits prior to inspection teams arrival



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Schedule continued

- Inspection must be requested in E-Permits prior to inspection teams arrival --- What Does that mean!!!!
  - Tentative
  - Hard Scheduled
- Required documentations prior to requesting inspection
  - SF042 – underground piping
  - SF041 – Sprinkler system
  - SF035/009 – Fire Alarm / intelligibility testing
  - SF0250 – Kitchen Hood



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Final Inspection (Reno)

- Construction debris
  - must be removed from the facility to the greatest extent
  - Nothing can interfere with safety systems or egress paths
- Final clean
  - does not have to be completed
- Furniture
  - Free to move in when safely allowed
- Occupancy
  - Not in area under scope of work until final inspection completed and passed

Remember the final inspection is the final step prior to occupancy

--- Safety systems MUST work---



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Final Inspection (New)

- Construction debris
  - must be removed from the facility to the greatest extent
  - Nothing can interfere with safety systems or egress paths
- Final clean
  - does not have to be completed
- Furniture
  - Need to call inspector prior to moving in
- Occupancy
  - Not allowed till final inspection completed and passed
    - Fire Watch

Remember the final inspection is the final step prior to occupancy

--- Safety systems MUST work---



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Final Inspection cont.

- Final inspection required personnel on site (minimal)
  - General contractor
  - Fire Alarm contractor (RME-I)
  - Sprinkler contractor (RME-I)
  - Kitchen Hood contractor (w/licensed)
  - Access Control contractor
  - Electrician
  - HVAC personnel (w/smoke bombs)
  - ISD personnel (construction/project manager)
- Final inspection suggested personnel on site
  - ISD police personnel
  - Local responding fire department
  - Principle



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Final Inspection cont.

- Final inspection required documents
  - Approved plans for all permitted work
    - Underground
    - Sprinkler
    - Fire Alarm
    - Kitchen hoods
    - Access control
    - Full construction plans W/ Fire review sheet STAMPED!
- Contractors and subs
  - Must have picture ID and state issued Licenses if issued



# NEW CONSTRUCTIONS (RENOVATIONS)

## ➤ Egress!!!!!!

- How do people get out
  - Signage
    - approved plans - discovered on site)
  - Travel paths
    - Signage required!!!!
  - Access control
    - Free egress or emergency exit only
- Security Systems
  - Card readers
  - Lock down



# CERTIFICATES

## ➤ Certificates

- Certificate of Inspection (COI)
  - Issued on new construction/reno and annual inspections
    - Issued by Harris County Fire Marshal's office
- Occupancy Load
  - Issued for facility and all assemble areas inside
    - Issued by Harris County Fire Marshal's office
- Certificate of Compliance (COC)
  - Final document
    - issued from Harris County Engineering
- Conditional Certificate of Compliance (CCOC)
  - Allows occupancy for a small period of time
    - Issued by Harris County Fire Marshal's office



# TOPICS

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- Certificates



# QUESTIONS

