Lunch and Learn

Oct 2018
Lt. Howell
Annual inspections

New Constructions (Renovations)

Certificates
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

- 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.

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   By: Herber, Samantha (95P29)
Time In: 07:45   Time Out: 10:20
Authorized Date: 10/09/2018   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---
- 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---
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

- 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
- Annual inspections
- New Constructions (Renovations)
- Certificates