

Atlanta Fire Rescue Department Plan Review Requirements

I. FIRE SITE REVIEW REQUIREMENTS

Site and Utility Plans to include:

- Fire Department site access.
- *Roadway width(s)
 - ✓ 20 ft. minimum and 13ft. 6 in. vertical clearance.
 - ✓ 26 ft. minimum for buildings 30ft or higher.
- *Turning radius:
 - ✓ Structure with 3 stories or less – inside radius - 28ft. and outside radius - 48 ft.
 - ✓ Structure more than 3 stories – inside radius - 35ft. and outside radius - 50ft. ***Note: ARFF (Aircraft Rescue Fire Fighting) apparatus radius shall be verified.**
- Show overhead power lines within 20ft. of fire access road.
- *Gates – (specify mode of operation).
- *Knox Box(s) equipment location(s) i.e. breezeways, gates, entrances.
- *Location of all fire hydrants located within proximity of proposed project. *100ft. from FDC (Fire Department Connection(s)).
- *FDC (Fire Department Connection(s), standpipe connection, sprinkler test headers, PIV (Post Indicator Valves) locations.
- *Exit discharge from the proposed structure(s).
- *Transformer(s) location(s).
- Parking decks.
- *Generators.
- *ASTs/USTs. (Aboveground Storage Tanks/Underground Storage Tanks) - ***Note: Must be shown on both Site and Utility Plans.**

II. FIRE REVIEW FOR NEW/RELOCATION/REMOVAL OF ABOVE OR BELOW GROUND TANK OR FUEL DISPENSING UNIT

General Information:

Applicable codes:

- ✓ NFPA 30 Flammable and Combustible Liquids Code.
- ✓ NFPA 30A Automotive and Marine Service Station Code.
- ✓ NFPA 37 Standard for Installation and Use of Stationary Combustion Engines and Gas Turbines.
- ✓ NFPA 70 National Electrical Code.

***Note: Most current code edition shall apply**

Site Plan to include:

- Location of tank, drawn to scale.
- Distance from buildings, observation wells, vents, hazardous features such as electrical equipment and incinerators.
- Distance from property lines, parking and drives.

Structural Plans to include:

- Identify type of liquid being stored.
- Identify type of storage: above ground, underground, container or portable tank.
- Specify volume of each tank in gallons.
- Section to scale through above ground tank and containment showing dimensions, calculation of containment volume, shape, dimensions, and construction of containment, tank base, fireproofing for metal tank supports, anchorage and venting.
- Section through underground tank(s) and excavation showing depths, physical dimension of tanks, backfill, anchorage (if required), venting and cathodic protection.
- Details for fuel dispensing units designating solenoid valves, shear valves, hose breakaway valves and emergency power shut-off switch.
- Manufacturers cut sheets – describe tank and all appurtenances indicated above and specify applicable UL listing information (e.g. UL 142 or UL 2085 tanks).
- Location and type of fire extinguishers.
- Description of vapor recovery system.

III. FIRE ASSEMBLY REVIEW REQUIREMENTS

- ✓ Seating layout or floor plan if no seating is required.
- ✓ Full set of architectural plans.

Life Safety Plan to include:

- Occupant load, Egress capacities and Exit Remoteness calculations.
- Travel distances, Common Path Travel and Dead-End limitations.
- Exit discharge termination at a public way.
- Exit signs, emergency lighting and pull Station locations
- Fire extinguisher locations and type.
- Fire rated walls.
- Furniture/Fixture/Equipment layouts.
- Symbols legend.
- Room identifications.
- Fire protection (sprinklered or non-sprinklered).
- P/H (Panic hardware).

***Note: Seated capacity must be noted on plans.**

IV. APPROVED QUALIFIED CONTRACTORS for IFC 510 and EMERGENCY RESPONDER RADIO COVERAGE TESTING

The following structures are not required to comply with the requirements of IFC Section 510:

- ✓ Buildings with no more than two occupiable stories, no more than 12,000 total square feet, and no floors below grade.
- ✓ Temporary buildings including tents when permitted by the Fire Marshal. For additions to buildings, unless the exceptions above are met for the area of the addition, the entire building being expanded must meet IFC 510 requirements.

V. FIRE ALARM REVIEW ITEMS FOR APPROVAL

- Riser Diagram "Point to Point" diagram and wire legend.
- Battery Calculations and Voltage Drop Calculations.
- Accurate Legend of Symbols for All Fire Alarm Devices Being Installed.
- Identification of Type of Wiring Used, Including Gauge and Wire Counts.
- The Matrix of Sequence of Operation/Events When Alarm System Is Activated.
- Stamp and Signature of the Designer in Responsible Charge of the Project.
- Location of FACP (Fire Alarm Control Panel), Annunciators, DACT's (Digital Alarm Communicator Transmitter), Power Extenders and Command Centers.
- Speaker wattages and decibel ratings for both horn alarm and voice evacuation system.
 - ✓ Components.
- The candela rating shown for drawing for each strobe device and each illuminated emergency.
 - ✓ Exit sign.
- Fire Alarm Systems with more than 6 devices and no new control panel installation or major
 - ✓ Modification to the system.

***Note – Fire alarm plan is a separate review and shall be submitted by the contractor elected to install.**