



SAN DIEGO FIRE RESCUE-DEPARTMENT

INCIDENT COMMAND SYSTEM

Tactics & Strategy



IN-SERVICE TRAINING

13-01



Overview



The following are the common types of fires the San Diego Fire Rescue Department encounters.

Today we will look at the Tactics & Strategy and ICS Objectives for each:

- **Single Family Residence**
- **Garden Style Apartments**
- **Center Hallway Apartments/Buildings**
- **Large Commercial**
- **Strip Mall**
- **Vegetation**



Single Family Residence



Initial Objectives

- **Initial Report** on Conditions
- Establish **Command**
- **Supply Line**
- **IRIC** and **A/O**
- **Attack Line**
- **Primary Search**
- **Additional Resources**





Single Family Residence



Tactical Objectives

- Fire Attack
 - *CAPTAIN INSIDE*
- Backup Line
- Exposure Line
 - Maybe 1st Line Deployed
- Utilities
- Ventilation





Single Family Residence



Tactical Objectives

- RIC
- ***KNOCKDOWN***
- Secondary Search
 - Performed **AFTER** Knockdown
 - By a Different Company
- Salvage





Single Family Residence

Finish Strong



- Extension...
- Extension...
- Extension
- Investigators
- Overhaul
- Occupant's Needs
- ALL **FIRE** IS OUT!!!





Single Family Residence

GARAGE FIRE



What is the best practice for the



***typical attack on a garage
fire???***



Single Family Residence

GARAGE FIRE



- 3 Hose Lines
 - *Attack Line*
 - IF Fire Wall & Door are Closed/Intact
 - *Directly on the Fire*
 - *Consider Larger Lines*
 - *Backup*
 - *Exposure*
- Take the **HEAT** OUT OF THE FIRE





Single Family Residence

GARAGE FIRE



- Still Must **Protect the Residence**
 - Greatest Exposure
 - Fire in Attic
 - *Check for Extension*
 - *Prevent Extension*
 - *Monitor Extension*





Single Family Residence

GARAGE FIRE



Garage Fire Video



Single Family Residence

GARAGE FIRE



- *Additional Concerns in Garages*
 - *Heavy Doors & Springs*
 - *Gas Cylinders*
 - *Ammo, Fireworks*
 - *Paint Cans*
 - *Hazardous Materials*
 - *Weight Above in Rafters*





Garden Style Apartments



Refers to Apartments with Exterior Access to each Unit
as opposed to center hallway

Most Common Multi-family in San Diego





Garden Style Apartments



Initial Objectives

- Initial Report on Conditions
- Establish Command
- Supply Line
- IRIC and A/O
- *Attack Line*
- Primary Search
- *Additional Resources*



Garden Style Apartments



Tactical Objectives

- *Exposure Line*
- *Fire Attack*
 - Captain Inside
- Backup Line
- *Ventilation*





Garden Style Apartments



Tactical Objectives

- Utilities
- RIC
- ***KNOCKDOWN***
- Secondary Search
- ***Salvage***





Garden Style Apartments



Finish Strong

- Extension...
- Extension...
- Extension
- Investigators
- Overhaul
- Occupant's Needs
- ALL **FIRE** IS **OUT!!!**





Garden Style Apartments



Unique Objectives

- **Attack Line**
 - *Condo Lay*
 - *Consider 2 ½" Lines*
- **Additional Resources**
 - *Greater Life Hazard*
 - *Multiple Displaced Occupants*
 - *2nd Alarm (staging location)*



Garden Style Apartments



Unique Objectives

- **Division** or **Group Supervisor**
 - *Division 2*
 - *Division 3*
- **Ventilation**
 - *Vertical or Horizontal*
 - *Ventilation Plan for Entire Structure*
 - *Multiple Crews???*





Garden Style Apartments



Unique Objectives

- Exposure Line (s)
 - *Determine Greatest Risk Exposure*
 - *Should NOT be above Active Fire w/o Line*
 - *Six Sides to the Fire*
- Salvage
 - *Above Ground/Multiple Floors*
 - *Basements*



Center Hallway



- **No Exterior Access from each Unit**
- **Must Exit through Interior Corridors**
- **Can be Residential or Commercial**
- **Hallways May or May Not run down the Center**





Center Hallway

Unique Hazards



- **Rapid Fire Spread**
 - *Unprotected Interior Hallways*
 - *Unprotected Interior Stairwells*
- **High Life Hazard potential**



Center Hallway

Unique Objectives



- **Division Group Supervisor**
 - *Division 2*
 - *Division 3*
- **Additional Alarm(s)**
 - *Staging Location*
 - *Recognize fire potential early*



Center Hallway *Ventilation*



- **Ventilation**
 - ***MOST Important Operation***
- **If Fire Extends to Hallway**
 - ***Must be Ventilated Rapidly***
 - ***Multiple Crews???***
- Ventilating for **Life** vs. **Fire**



Center Hallway

Ventilation



- Open Penthouse Door
 - *Primary Search of Penthouse Stairwell*
- Ventilate over Top of Penthouse
 - *Use as a Chimney*
- Ventilate over Top of Hallway



Large Commercial



- Occupancies that have potential for Large Area Search and Extended Hose Lines
- Tilt Ups, Warehouses, Churches, Markets, etc.





Large Commercial

Initial Objectives



- **Initial Report** on Conditions
- Establish **Command**
- **Supply Line**
- **IRIC** and **A/O**
- **Attack Line**
- **Primary Search**
- **Additional Resources**





Large Commercial

Tactical Objectives



- Fire Attack
- Backup Line(s)
- Ventilation
- Utilities
- Exposure Line(s)





Large Commercial

Tactical Objectives



- RIC
- ***KNOCKDOWN***
- Secondary Search
- Salvage





Large Commercial

Finish Strong



- Extension...
- Extension...
- Extension
- Investigators
- Overhaul
- Owner's Needs
- ALL **FIRE** IS OUT!!!





Large Commercial

ICS ASSIGNMENTS



- ***GROUPS***

- Fire Attack or Interior
- Ventilation

- ***DIVISIONS***

- Division 1, 2, etc.
- Division **Alpha**, **Bravo**, **Charlie**, **Delta**
- Roof





Large Commercial

Unique Objectives



- **Water Supply**
 - *Multiple Supply Lines*
- **Initial Attack Line**
 - *Consider Large Lines*
 - *Deck Gun*
 - *Identify Purpose*
 - *Attack*
 - *Exposure Protection*





Large Commercial



Unique Objectives

- Additional Alarm(s)
 - *Staging Location*
 - *Recognize fire potential early*
- Ventilation Group
 - *Responsible for coordination for the entire building*
 - *Number of Crews Required*
 - *Ventilation Plan*





Large Commercial

Unique Objectives



- ***R.I.C.***
 - Number of Crews required
 - Depending Size & Access
 - If Activated, consider Additional Alarm
- ***SALVAGE***
 - Water is often the Greatest \$ Loss
 - Contact Logistics
 - Additional Equipment Needed
 - *Water Vacs, ETC*



Large Commercial

Unique Objectives



- ***Forcible Entry***
 - Knox Box
 - Common Location
 - Boundary Drop Issues
 - Roll Up Doors
 - Security Doors
 - Often the Alpha Side has less Security





Large Commercial



Learn from Others

9 South Carolina Fire Fighters Die in Rapid Fire Progression

June 18, 2007, nine career fire fighters died when they became disoriented and ran out of air in rapidly deteriorating conditions inside a burning commercial furniture showroom and warehouse facility



Large Commercial



Learn from Others

9 South Carolina Fire Fighters Die in Rapid Fire Progression

ADD IN POINT OF DISCUSSION



Strip Mall

General Information

- Common in all areas of San Diego
- Come in different Shapes and Sizes
 - *I shape, L shape, U shape*
 - *1 story, 2 story, etc.*
- Construction Considerations
 - *Compartmentalized*
 - *Location of Firewalls*



Strip Mall

Dangers

- **Biggest Fire Spread Threat**
 - *Horizontal through Unprotected Openings*
 - *Common Attics*
- **Biggest Threat to Firefighters**
 - *Construction Failure*
 - *Overhangs*
 - *Parapet Walls*





Strip Mall

ICS ASSIGNMENTS

- ***GROUPS***

- Fire Attack
- Ventilation Group
- Exposure Group

- ***DIVISIONS***

- Division Alpha, Bravo, Charlie, Delta
- Roof
- Bravo Exposure, Delta Exposure

- **Recognize Fire Potential Early** (Order Resources)





Strip Mall

Tactics & Strategy

- Direct Attack
 - Big Fire...Big Water
 - Back-Up Line
- Confine...*Prevent Fire Spread*
 - *Determine Fire Advancement in Attic*





Strip Mall

Tactics & Strategy

- Coordinated Attack
 - *Determine Fire Advancement in Attic*
 - *Group Supervisors MUST*
 - *Communicate*
 - *Organize*
- Trench Cut Roof
 - *Determine Fire Advancement in Attic*
- Attack from Below
 - *Pull Ceiling with Hoselines in place.*





Vegetation Fire

General Information

- Brush and annual grasses is the predominant plant community in the canyons throughout San Diego
- We will focus on the Special Response areas with active fire within the City of San Diego and bordering jurisdictions





Vegetation Fire

Dangers



- **Environmental Dangers**
 - *Heat Emergencies*
 - *Dehydration*
 - *Poisons*
 - *Bites & Stings*
 - **Rattlesnakes**
 - *Terrain*
 - *Poor Footing*
 - *Falling Rocks*





Vegetation Fire

Strategic Goals



- Protect Structures & Property
 - *#1 Strategic Priority*
- Anchor, Flank, Pinch
 - *Take out the Head of the Fire*
- Recognize Potential Early
 - *Order Additional Resources*





Vegetation Fire

Initial Objectives



- **Initial Report** on Conditions
- Establish **Command**
- Determine/Order **Resources**
- Determine **Water Supply**
- **Anchor Fire**
- **Work Active/Threatening Flank**
- **Direct Resources Access & Placement**





Vegetation Fire

ICS Assignments



- ***DIVISIONS***

- Division Alpha
 - Left Flank
- Division Zulu
 - Right Flank

- ***GROUPS***

- Structure Protection Group
 - Top Priority





Vegetation Fire

Mid Slope Fire



Brush Management - Good



STRUCTURE PROTECTION GROUP

DIVISION ALPHA

DIVISION ZULU

MOST ACTIVE FLANK

ACTIVE FIRE

PLACE 1ST ALARM VEG RESOURCES

ANCHOR POINT



Vegetation Fire

Resources



- Call for what you think you might need

- ***Strike Teams***

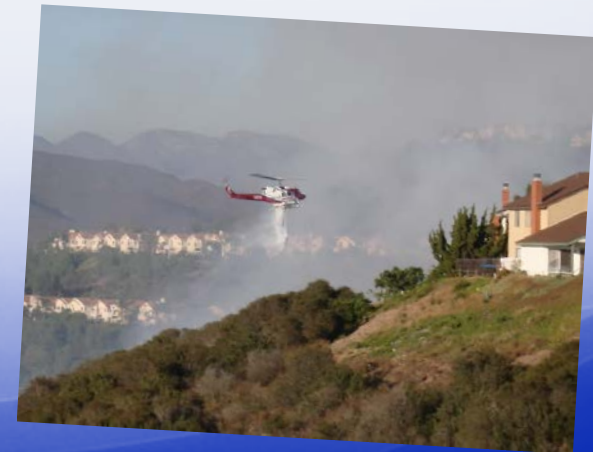
- *Type I*
- *Type III*



- ***2nd Alarm Vegetation Special Response***

- ***Air Support***

- *Helo*
- *Fixed Wing*





Vegetation Fire

Tactics & Strategy



- Anchor, Flank, Pinch
 - *Take out the Head of the Fire*
- Structure Protection
 - ***Frontal Attack***
 - *Standing in the Green*
 - *Must Have:*
 - *Escape Routes*
 - *Safety Zone*
 - *Trigger Points*



Vegetation Fire



Water Supply

- Determine Water Source

- *Hydrant*
- *Tenders*
- *Shuttle*



- Each Company must know their Water Source

- *Hydrant*

- If you are going off the Tank

- ***MUST USE LOWEST GPM NOZZLE SETTING***



THANK YOU

Questions???