



CASE STUDY

Fire Prevention: Pre-Incident Planning

What our client needed

The West Sacramento Fire Department (WSFD) administers fire and life safety regulations for all properties/facilities within city limits that includes issuance of various permits through processes of on-site inspections, scheduling, data storage, reporting, and billing. As part of the 2016 Startup in Residence (STIR) Program, WSFD and Raxar Technology Corporation (Raxar) partnered up and identified that a majority of fire departments, not just WSFD, perform Pre-Incident Planning processes using time-consuming, paper-based methodologies and archaic systems. Some of the challenges WSFD faced included:

- **Low** ISO audit score for pre-incident planning
- **Low** % of ISO facilities with completed pre-plans
- **Variable** pre-plan completion time (**8-24 hours**)
- Pre-plan data **NOT** readily available for inspectors, audits, property owners/tenants, fire fighters in route, etc.
- **No scheduling or tracking** process in place
- Pre-plan data entered into **multiple systems** and **not consolidated**
- **Siloed systems** and **no centralized property/facility asset database**

These Pre-Incident Plans are not only a regulatory requirement but are extremely important as the information gathered during this process is used by responding personnel in effectively managing emergencies for the protection of occupants, responding personnel, property, and the environment.

What we created

Leveraging WSFD's expertise and NFPA's regulations, Raxar configured it's GRAiT System platform to enable Fire Departments and their inspector's to quickly create comprehensive, digital Pre-Incident plans and instantly share the information with the entire department. The solution includes a user-friendly mobile inventory and assessment application and tool that allows inspectors to take digital floor plans and maps into the field, inventory and assess buildings, fire systems, findings, etc. and document everything with photographs, mark ups, notes, signatures, and more. In addition, the GRAiT System's Business Intelligence tool was configured to generate custom, pre-plan summary reports and dashboard for WSFD inspectors, chiefs, firefighters, auditors, and any other organization that needed real-time access to the information.



Results

- **85% reduction** in average pre-plan completion time: **16 to 2.5 hours**
- **Save over 10,000 hours** of inspection time for remaining ISO facilities
- **5x** opportunity improvement for ISO audit score
- Fully automate the ISO Audit Reports saving days of preparations and consolidation time
- Proposed plan to complete pre-plans for **ALL** qualified facilities within **1 year**
- **100% improvement** in fire asset visibility to fire-fighters in route reducing risk to fire-fighter and residents during events
- Reduce backlog and time to issue permits
- Deliver improved reports/summaries to facility owners/tenants