Final Report
81152-201

STUDY OF PUBLIC FIRE FIGHTING
CAPABILITIES AND REQUIREMENTS
FOR
THE METRO RAIL PROJECT

Prepared
by
Kaiser Engineers California and
Gage-Babcock & Associates, Inc.

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Chapter 1

INTRODUCTION

1.1 FOREWORD

This report contains the Fire Service Survey, and conclusions and recommendations relative to the fire fighting capabilities of the Los Angeles City Fire Department and Los Angeles County Fire Department in relation to the Metro Rail System (hereafter referred to as "the System").

1.2 PURPOSE OF THE FIRE SERVICE SURVEY

The purpose of the Fire Service Survey was to conduct an objective study and report on the ability of the Los Angeles City and Los Angeles County Fire Departments to provide the fire protection, rescue, and medical services for potential emergencies which may occur on the System. The need for providing additional personnel and/or equipment is also included.

1.3 SCOPE OF STUDY

The scope of this study was to determine the fire response capabilities of the Los Angeles City and County Fire Departments. The need for SCRTD to provide additional personnel or equipment, or both, has been determined and quantitative recommendations are included in this report.

The evaluations were based on fire protection engineering experience and judgement, with consideration given to the standards of nationally recognized organizations. In all instances, the needs and anticipated configuration of the Metro Rail System were the determining factors in the conclusions and recommendations contained in this report. Consideration was given to currently planned conditions, as well as to foreseeable future service levels.

To accomplish the objectives of the study, a survey questionnaire was developed to secure data on operations and resources. This questionnaire was presented to the fire service jurisdictions for completion. The survey covered alarm receipt and dispatch facilities and operations, fire fighting apparatus, equipment and
staffing, emergency medical services, rescue equipment and activity, normal alarm response assignments, special equipment anticipated as necessary for transit system emergencies, communications, and fire prevention program (see Chapter 5 of this report).

The study was confined to the jurisdictions within the planned 18.6 mile System boundaries. Emergency situations involving at-grade, below-grade, and aerial facilities as well as yard and shop facilities were anticipated. Consideration was given to emergency medical aid services, as well as fire control and suppression (fire-fighting) capabilities.
Chapter 2
SUMMARY OF SURVEY

2.1 GENERAL

The survey questionnaires are included at the end of this report (see Chapter 5). This chapter is a brief narrative summary of the information gathered from the completed questionnaires.

Fire suppression and emergency medical services for areas through which the System will pass are provided by the full-time, paid personnel of the Los Angeles City and County Fire Departments. These fire agencies are among the largest in the United States and have extensive personnel, engines, ladder trucks, and rescue vehicles resources upon which to draw.

2.2 FIRE SUPPRESSION/MEDICAL AID EQUIPMENT

The normal fire apparatus which responds to reported fires in commercial structures is three engines and two ladder trucks in the City and four engines and one ladder truck in the County. The normal response to any reported structural fire is at least two engines and one ladder truck. Engine company and ladder company staffing varies from four to five people.

The fire departments' rescue vehicles, manned by paramedics, respond to reported emergency medical aid calls. Only the City rescue vehicles have transport capability. In the County, transport services are provided by private ambulance companies. The response to rescue calls varies, depending on the nature of the call.

In general, responses provided should be adequate for common, anticipated emergencies. Based on the study of the City and County Fire Departments, most of their fire apparatus is equipped to handle common fire emergencies. Special pieces of equipment will be required to respond to major problems or those unique to the SCRTD Metro Rail System. This is addressed in Chapter 4, Recommendations, Section 4.2, Fire Services Recommendations.

2.3 TRAINING

Although a detailed analysis was not made, based on the responses to the questionnaires and general discussions with fire department personnel, there are all indications that the City and County Fire
Departments have developed and are carrying out good training programs. They have well-equipped training centers and are conducting regularly scheduled drills. The fire service personnel are well trained, but will need special training to handle Metro Rail emergencies.

2.4 COMMUNICATIONS

Both the City and County Fire Departments have emergency communications facilities with personnel on duty at all times. These facilities are designed to receive emergency fire and rescue telephone calls, and provide radio communications with fire-service apparatus. The communications offices do not monitor public fire alarm systems (street fire alarm boxes) or private fire alarm systems. The communications centers are interconnected by private line telephones and cross-monitor radio communications.

The fire services are equipped with handi-talkie units for communication in the fire locale, which is essential for supporting and coordinating any sizeable emergency operation. The departments also have access to a common radio frequency to use in event of a multiagency operation. This reliance on radio communication will dictate transit facility requirements as discussed in Section 4.3.

2.5 INSPECTION PROGRAM

Both fire agencies have fire prevention inspection programs. The inspection programs are implemented by the Fire Prevention Bureaus with support from the fire suppression companies. The programs generally provide for a minimum number of yearly inspections of high fire-risk properties (relative to property value and human occupancy). Since the bulk of Metro Rail facility inspections will be the responsibility of Metro Rail System personnel, any additional inspection requirements placed on the fire services should be minimal.

2.6 ASSUMPTIONS OF TRANSIT SYSTEM CONFIGURATION

The recommendations in this report are based on fire-related criteria that are still being evaluated; e.g., fixed fire detection, alarm and control systems in selected areas, emergency access, emergency trip stations, and emergency lighting. The need for supplemental equipment and personnel may change as a function of any changes in the assumed features discussed above.

For the purposes of the study, the fire/life safety implications are treated as an integrated system. Changes in one component could change other components and a reevaluation may be required. Significant fire/life safety components are:
Fuel loads
Fuel arrays
Area and height
Separations
Fire resistivity
Fixed protection systems
Ventilation
Exit facilities
Exit configuration
Patron loads
Operations
Vehicles
Communications
Emergency Access
Facility monitoring
Chapter 3

CONCLUSIONS

It is concluded that the Los Angeles City and County Fire Departments appear to have the capabilities for providing adequate fire and emergency medical services for the Metro Rail System (except in one area discussed in the last paragraph). However, due to certain unique characteristics of a transit system, additional supplemental equipment and personnel training will be necessary.

The fire departments have established training programs that can be expanded to provide for anticipated emergencies peculiar to the SCRTD Metro Rail System. It is clear that the specific requirements for additional equipment, training, and response agreements need to be developed through a program of joint participation of fire, security, and transit personnel. Recommendations for special equipment and special training of personnel are discussed in the following sections of this report.

It was determined that the County Fire Department does not have the resources to properly respond to a major rail rapid transit system emergency in the West Hollywood area. Additional manpower, apparatus, and equipment will be required from a neighboring jurisdiction. However, the fire departments have a viable and working mutual aid plan wherein any department can request, and usually receive, additional resources necessary to meet foreseeable emergency demands.
Chapter 4

RECOMMENDATIONS

4.1 GENERAL

As a first step towards determining the need for additional equipment and/or personnel to supplement the fire service or life safety efforts of the various jurisdictions, it was necessary to evaluate and ascertain the ability of those public fire services to meet the anticipated System's needs in providing a level of response capability commensurate with contemporary services of other metropolitan transit systems. Staffing, apparatus, equipment, training, communications, and other salient features of the fire services were determined and evaluated. The fire and rescue experiences of other transit systems were reviewed in determining needs, anticipating emergency problems, and developing the following recommendations.

Effective fire fighting is the result of careful coordination between Fire Department fire fighting apparatus, procedures, and personnel and, most importantly, the facility where the fire occurs. Therefore, reasonable provisions in the Metro Rail System facilities for fire fighting conditions must be addressed before specific fire service recommendations can be made. Therefore, the responsibilities and needs of both the fire services and the transit property are discussed, with recommendations for the transit facility first, the fire services next, and joint responsibilities last.

4.2 TRANSIT FACILITY RECOMMENDATIONS

4.2.1 Intermediate Emergency Access

Convenient access to tunnels and trainways is important for prompt response to emergencies requiring rescue operations or treatment of victims. This access is also important if fires are to be attacked promptly, to minimize damage and service disruptions. Based on anticipated emergency response needs, the public fire department, both equipment and manpower, will need access to underground areas at stations, portals, and possibly in between. The location, frequency, and arrangement of these intermediate accesses should be decided individually according to distance and conditions. Generally, stations or portals over one-half mile apart will require
additional access. Where topography precludes this access, or a protected parallel tunnel exists, alternate access concepts can be considered.

The accessways to underground portions should be arranged for secured exterior access, sized to easily accommodate firefighters and their equipment, and isolated to prevent exposure to smoke, toxic substances, and high temperatures. Fire hose connections and communications should be provided within the access and at the track level, as recommended below in Section 4.1.2.

4.1.2 Fire Hose Connections

Previous experience at other transit systems indicates that standpipe systems with fire service hose connections are very desirable. It is recommended that fire hose connections be provided in each station and at regular intervals in the tunnels to facilitate emergency response capability by fire-service personnel. Hand-stretching hose against and impeding the flow of exiting patrons during an emergency situation can be avoided with the use of standpipes.

4.1.3 Fire Vehicle for Transit Yards

Most likely, access to yard trackways, transit cars in storage, and the area between stored cars will be slow and difficult for conventional fire apparatus. The monetary value of the transit vehicles and their operational importance emphasizes the need to quickly confine incipient fires. Manual hose laying will probably be necessary. To speed up the response to incipient fires, a small fire vehicle, manned by trained District personnel from yard and shop crews, is recommended. This vehicle will be for in-yard use with limited, but adequate quick-attack capability and maneuverability. Generally, an extra small, narrow body, pick-up style, gasoline engine driven truck with the following equipment mounted on the vehicle would suffice:

- 200 feet of 2 1/2" double Dacron jacket hose with Pyrolite couplings
- 100 feet of 1 1/2" double Dacron jacket hose with Pyrolite couplings
- 1 gated wye 2 1/2" x 1 1/2"
- 1 2 1/2" combination fog-stream-off nozzle
- 2 1 1/2" combination fog-stream-off nozzle
- 2 hydrant wrenches
2 universal hose spanners
1 pickhead axe
1 pry bar
2 2 1/2 gallon pressurized water extinguishers
2 battery-powered hand lights
1 20-lb dry chemical extinguisher
1 CO₂ unit with two 50-lb manifold units, 50' of hose, and nozzle on reel
1 deck gun, mounted and demountable, "Ozzie" Akron Brass type, with a 2 1/2" inlet and 1 1/2" outlet
2 spotlights mounted on the truck and powered by truck system
1 emergency light and siren
1 rope, 50' manila, 1/2" diameter

4.1.4 Hand Cars or Folding Carts

Fire department operations on any serious fire or rescue operation could require moving equipment and tools down the trackway to the scene. If the firemen had to carry this equipment, their effectiveness and efficiency at the scene would be reduced. It is, therefore, recommended that the District provide rail hand cars or folding carts at each station so that equipment can be quickly and efficiently transported. Cars or carts should be readily accessible to the emergency services, but not to the public.

4.1.5 Emergency Transport Vehicle

Fire vehicle access to the trackway is not desirable. However, consideration should be given to providing a means of transporting seriously ill or injured people from underground to the surface for transfer to an ambulance. This may be either a motorized vehicle or a manually operated (push-type) vehicle.

4.1.6 Develop Standard Operating Procedures for Emergencies

The development of standard operating procedures (SOP) for postulated emergencies ties in directly with recommendations 4.3.3 and 4.3.4 for the elderly and handicapped. These procedures should begin with a statement of policy as to which public emergency services are to be called for each type of emergency that is reported; e.g., fire, accident, smoke, heart attack, power outage, etc. The SOP should then set forth procedures and actions for each
step necessary to handle the emergency, such as assignment of transit personnel to meet and direct the responding fire service, location of entry, rendezvous, by whom and where power is to be shut off, etc.

4.1.7 Fire Brigades for Yards and Shops

It is recommended that the District organize and train volunteer fire brigades from its own personnel to provide rapid first-line fire attack service in the yards and shops. These brigades are common in large industrial plants and are used only as a supplement to the public fire service.

One of the most valuable attributes of using in-house fire brigades is that District personnel will have intimate knowledge of the facility, its utilities, any fixed automatic fire systems, and the transit vehicles. With this knowledge (that the public fire service usually does not have) fires are more quickly and knowledgeably attacked, so that damage is minimized and salvage operations promptly initiated.

Fire brigades are commonly composed of mechanics and utility persons, with an appointed lead person on each shift. Assignments should be made so that there will be a minimum of five people available at all times. If these people are not equipped with pagers, coded audible signalling systems, actuated by the manual and automatic fire alarm devices in yards and shops, should be installed. An acceptable alternative is to provide noncoded audible signalling with a slave annunciator at the fire brigade's vehicle station.

4.2 FIRE SERVICES RECOMMENDATIONS

4.2.1 Self-Contained Breathing Apparatus

Fire departments serving the Los Angeles area generally have typical self-contained breathing apparatus, sufficient in quantity and duration for the types of fires commonly encountered in the community. These units are rated at 30 minutes, giving an effective operating period of about 17 minutes. These masks are essential for firemen who work in areas with heavy smoke or toxic gas atmospheres. Such fires have been experienced in underground sections of other transit systems, and can be expected to occur in underground portions of the Metro Rail System. However, the relatively short operating duration of the units typically available in the local fire services will inhibit underground fire and rescue operations. This deficiency is aggravated by the distance between underground stations.

Self-regenerating type apparatus (such as that used by the San Francisco Bay Area Fire Departments) would allow firemen to operate in a hostile environment for longer periods (in excess of one hour).
It is recommended that such units be provided. The number and location should be the subject of negotiations with the fire service.

4.2.2 Rescue Equipment

The results of the survey and observation indicate local fire services appear to be well equipped, or can secure the use of most essential equipment through aid agreements. However, special blocking and special jacks will be necessary as has been provided on other transit systems. The location and extent of such equipment (if necessary) should be worked out with the local fire services who will be using it, but secured storage at strategic locations should suffice.

4.3 JOIN TRANSIT SYSTEM AND FIRE SERVICES RECOMMENDATIONS

4.3.1 Formation of a Fire/Life Safety Committee

It is our recommendation that a permanent Fire/Life Safety Committee be established to consider all of the fire protection-life safety circumstances of a rail rapid transit system. This recommendation has been detailed in a separate memorandum.

4.3.2 Communications (Emergency)

Communication between emergency crews on the surface and within the tunnels is essential for effective emergency operations. It is recognized that typical fire department handi-talkies cannot operate properly underground. Several other transit systems solved this problem by using a hard-wire communications system with either instrument plug-in jacks or permanently mounted instruments. Such systems are effective only if a single, reserved channel is used, with provisions for tunnel-to-surface, surface-to-surface, and tunnel-to-tunnel station capability. This type of system is recommended for the Metro Rail System.

Communications are to be located at street, concourse, and platform levels in stations; at track and street levels in emergency accesses; and at intermediate "blue light" trip stations within tunnels. Spacing of the trip stations should be determined in concert with the local fire services, as they will be one of the prime users.

Radio systems have been used by some transit properties, but they are a less desirable and more costly alternative. However, in light of the small number of jurisdictions involved, this alternative should also be considered.

4.3.3 Joint Training

Effective and efficient operations at fires and emergencies, as well as effective fire prevention, will result only from effective joint operations, cooperation, and mutual trust between the fire services
and the District operating staff and personnel. To this end, a comprehensive joint training program is recommended. The benefits of this program should include a reduction in fire losses and minimization of operating down-times. Other transit system experience indicates the importance of such training.

The District indoctrination and training offered to the fire services should include:

- Ventilation system functions and controls
- Emergency access facilities
- Communications procedures and facilities
- District authority and responsibility
- Central Control functions
- Facilities indoctrination
- Transit vehicle indoctrination
- Power-off switches, control and verification
- System fire control and alarm systems
- Yard and shop indoctrination
- Arrangements for fire equipment tests
- Emergency medical aid procedures and policies
- Identification of District transit personnel authorized to make decisions in emergencies

4.3.4 Pre-emergency Planning

If response to emergencies and fires is anticipated beforehand and emergency operations planned in advance, losses and down-times can be minimized. It will be prudent of the fire departments to preplan emergency operations for the significant fire risks in their communities. In the case of the System, however, with its unique facilities and operations, a joint preplanning effort can be developed by both sides, and operational preplanning similarly developed. The experiences of other transit systems emphasize the importance of such efforts.
4.3.5 Fire Systems and Equipment Maintenance

Fire systems and equipment are unique in that they may stand idle for years and then suddenly be called on to operate at full capacity for an extended period. For this reason, a comprehensive program of regular inspection, maintenance, and testing of systems and equipment is most essential. It is recommended that the District institute a program based on proven methods and standards. The local fire services may be willing to regularly inspect and test the fire hoses and associated equipment.

4.3.6 Fire Service Operations During Construction

Continual liaison between the District and the individual fire departments will result in the fire services being able to provide better service to the System and its patrons. This will be important during construction so that fire department access is maintained to streets, fire hydrants, and the System facilities as well as street access to other parts of the community.

Alternate response routes to other parts of the community can usually be developed by the emergency services if obstructions to normal routes are known in advance. After the System becomes operational, such liaison should be continued so that the emergency services are apprised of changes in facilities, access, operations, fire systems, and other aspects that offset efficiency and effectiveness of fire protection and emergency services.
Chapter 5
FIRE SERVICE SURVEY DETAILS

5.1 GENERAL
As previously indicated in this report, fire service survey questionnaires were prepared and disseminated to the Los Angeles City and County Fire Departments. The completed questionnaires for the City of Los Angeles Fire Department is identified as Section 5.2 of this report and the County is identified as Section 5.3.

5.2 CITY OF LOS ANGELES FIRE DEPARTMENT FIRE SERVICE SURVEY QUESTIONNAIRE
The following pages provide the details of the fire service survey pertaining to the city of Los Angeles Fire Department's capability to respond to Metro Rail emergencies.
**SCRTD Fire Service Survey**

**Name of Jurisdiction:** Los Angeles City Fire Department

**Mailing Address:** 200 N. Main Street
Los Angeles, CA 90012
Tel. (213) 485-6000

**Fire Chief:** John C. Gerard

**Contact for This Study:** James W. Young

**Mailing Address:** 200 N. Main Street
Los Angeles, CA 90012
Tel. (213) 485-5988

Information provided in this survey should be that which is pertinent to the SCRTD Metro Rail Project.

Does the fire department have the training and equipment to conduct hydrant water flow test: ____________________________

Where can hydrant water flow test information be obtained: ____________________________

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you have outside aid agreements?</td>
<td>Yes</td>
<td>With whom?</td>
<td>Long Beach N.A.S. (formal written agreements with designated equipment)</td>
</tr>
<tr>
<td>Do you have automatic aid agreements?</td>
<td>Yes</td>
<td>With whom?</td>
<td>L.A. County Santa Monica (automatic response on alarms) Beverly Hills</td>
</tr>
</tbody>
</table>

Do you provide ambulance service (yes or no)? Yes If no, who provides ambulance service: ____________________________

Do you provide paramedic service (yes or no)? Yes If yes, can you transport: Yes

Do you provide other emergency services, scuba rescue, or other services? (explain): Service Harbor, LAX, and Van Nuys Airports

Do you have any contracts for response outside your primary City/County boundaries? Yes with whom? Mutual & Automatic Aid
**Manpower (general):**

- Single Triple Co. = 4
- Task Force Eng. Co = 5
- Average manning per engine company: ___; per ladder company: ___
- Average manning per special company: Sc = 5; Per Paramedic Unit: 2

**APPARATUS ASSIGNMENT**

Please indicate the normal apparatus response to initial alarms (type of alarm as indicated), including any special vehicles and ambulances (if not fire service vehicles, please indicate under "Remarks").

<table>
<thead>
<tr>
<th></th>
<th>Engines</th>
<th>Ladder</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure Fire - Residential</td>
<td>2</td>
<td>1</td>
<td>B/C</td>
</tr>
<tr>
<td>Structure Fire - Commercial</td>
<td>3</td>
<td>2</td>
<td>B/C</td>
</tr>
<tr>
<td>Street Box Alarm (if any)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Sprinkler Flow Alarm</td>
<td>3</td>
<td>2</td>
<td>B/C</td>
</tr>
<tr>
<td>Investigation</td>
<td></td>
<td></td>
<td>Required full alarm assignment</td>
</tr>
<tr>
<td>Auto Accident</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Auto, Grass, etc. Fire</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Medical Aid Calls</td>
<td></td>
<td></td>
<td>Ambulance</td>
</tr>
<tr>
<td>Rescue</td>
<td>2</td>
<td>1</td>
<td>B/C</td>
</tr>
<tr>
<td>Underground Structures</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Fire &amp; Smoke Detector Alarms</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Multiple Alarms - 2nd</td>
<td></td>
<td></td>
<td>2 Eng, 1 Truck, 1B</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not less than 2 Eng, 1 Truck, 1 B</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Greater = More than 1st Alarm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3rd</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>etc.</td>
<td>Major Emer = 15 + companies</td>
</tr>
<tr>
<td>Automatic Aid (if any)</td>
<td>See below</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:** Up to maximum 30 triples Mutual Aid:

- a. Calif. Disaster & Civil Defense Master Mutual Aid
- b. Los Angeles County Mutual Aid and Mutual Assistance Agreements
- c. Memorandum of Understanding United States Forest Service Zone
- d. Mutual Fire Protection Agreement - Long Beach Naval Station
## First Alarm Response
### Fire Station Summary

For Stations Along Rapid Transit System

<table>
<thead>
<tr>
<th>Station</th>
<th>Address</th>
<th>No. of Paid On Duty</th>
<th>No. of Engine Co's</th>
<th>No. of Ladder Co's</th>
<th>No. and Type of Other</th>
<th>Reserve Apparatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>12 Main Street</td>
<td>10</td>
<td>2</td>
<td>1 (EP)</td>
<td></td>
<td>1E</td>
</tr>
<tr>
<td></td>
<td>800 N. Alameda St.</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 1A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st &amp; Broadway</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 1A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5th &amp; Broadway</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 2A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7th &amp; Flower</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 3A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alvarado &amp; 7th St.</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 2A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vermont &amp; Wilshire</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 1A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wilshire &amp; Normandie</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 2A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wilshire &amp; Western</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 1A</td>
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<tr>
<td></td>
<td>Wilshire &amp; La Brea</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 2A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wilshire &amp; Fairfax</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 2A</td>
<td></td>
</tr>
</tbody>
</table>

1. Indicate Aerial Ladder (L) or Elevating Platform (EP).
2. Indicate Tanker (T), Equipment Van (EV), Ambulance (A), Brush Truck (BT), Mini-Pumper (MP), or Rescue Van (RV).
3. Indicate Ladder (L), Engine (E), Tanker (T), or Ambulance (A), and number.

*Please attach additional pages if necessary.*

- Fairfax/Beverly Bl
- Ventura Bl/Vineland
- Fairfax/Santa Monica
- Tujunga Av/Chandeler
- Hollywood Bl/San Vicente
<table>
<thead>
<tr>
<th>Address</th>
<th>No. of Paid On Duty</th>
<th>No. of Engine Co's.</th>
<th>No. of Ladder Co's.</th>
<th>No. and Type of Other</th>
<th>Reserve Apparatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fairfax &amp; Beverly Blvd.</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 1A</td>
<td>1 B/C</td>
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<tr>
<td>Fairfax &amp; Santa Monica</td>
<td>4</td>
<td>1</td>
<td>(L.A. County Area)</td>
<td></td>
<td>Auto Aid</td>
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<td>Hollywood &amp; Cahuenga</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 2A</td>
<td>1 B/C</td>
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<td>Hollywood Bowl</td>
<td>33</td>
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<td>2 (L)</td>
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<td>1 B/C</td>
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<tr>
<td>Ventura &amp; Vineland</td>
<td>27</td>
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<td>1 (L)</td>
<td>1 Sq, 2A</td>
<td>1 B/C</td>
</tr>
<tr>
<td>Tujunga &amp; Chandler</td>
<td>33</td>
<td>3</td>
<td>2 (L)</td>
<td>1 Sq, 1A</td>
<td>1 B/C</td>
</tr>
</tbody>
</table>
APPARATUS SUMMARY

The following section is provided to obtain a general overview of your department's apparatus, its capacity and the equipment it carries, and to indicate what is typically found on a piece of apparatus in the general proximity of the Rapid Transit System. Please provide as much information as possible without covering each different piece of apparatus.

ENGINES:
- Booster Tank Size(s) Triple combinations 400-500 gal, tanks 1000, 1250, 1500, 2000 gpm & 150 psi
- Pumping Capacity(ies)
- Masks: Number & Type (hr. rating, etc.) 30 min. (1) per/member
- Hose: Type of hose threads National Standard
- Supply Lines: Amount 1500' (2½) Size(s) or (750' 2½) (600' 3½)
- Attack Lines: Amount 500' 1½=600' Size(s) 2½"=1500' or 750'
- Ladders (indicate number & length):
  Extension 20'
  Straight 12' roof
- Extinguishers (indicate no. & type) 2' gal air pressure, dry chem. 20 lb
- Medical Equipment (brief description):
  Resuscitators or inhalators? Resuscitators
  Other First Aid Kit
- Rescue Equipment (brief description, include power tools):
  Hydrant jack, breathing apparatus
  Radiological kit, life line, smoke ejector

LADDER TRUCKS (including Elevating Platforms):
- Reach (indicate average reach of the Aerial Ladders (L) and Elevating Platforms (EP) in your Dept.)
  (42) L=100', 85' (2) EP=50', (2) Squirt = 50'
- Ground Ladders (indicate no. & length):
  Extension 12', 14', (2) 35', 50'
  Straight (2) 20', (2) 24', Roof 12', 14', 16'
- Extinguishers (indicate no. & type) 2½ gal. air press., dry chem. 20 lb
  CO₂ 20 lb.
LADDER TRUCKS (cont'd):

- Medical Equipment (brief description): First Aid Kit
  Resuscitators or Inhalators? Resusitator
  Other_ Liter Basket

- Rescue Equipment (brief description):
  Electrical Power Tools Drills, lights
  Air Tools Chisels
  Other Chain saw, rotary saw, cutting torch, life lines, smoke ejector

- Masks: Number & Type (hr rating etc) 30 min. (1) per assigned member

RESCUE VEHICLE:

- General (brief description of type of vehicle(s)): (2) MU (wrecker)

- Equipment Carried (brief description): Jaws/life, ropes, chains etc.

SPECIALIZED EQUIPMENT (Provide brief description and on what vehicle):

- Lifting equipment (capacity?):

- Railroad related:

  Gloves yes 10,000 volts Rubber Blankets No
  Other

- Underground/Structure Emergencies

REMARKS, ADDITIONAL INFORMATION & COMMENTS:
Emer. air (fills air bottles on scene)
Emer. Lighting (provide lights)
Water (3) apparatus
Helicopters (6)
Mobile Hazardous Chemical Laboratory
**Training Manual Used?** Vol. 1-6, Basic II

**Training Facilities:** Location D.T. 89, D.T. 59, D.T. 21, D.T. 40, D.T. 1

- **Classroom Capacity?:** 20-45
- **Grounds (size):**

**Sub-grade Structures?** Describe Basements in all 5 Drill Towers

**Smoke Building?** Describe same

**Fire Building?** Describe same

**Any Props?** Aircraft Fuselage at other? Van Nuys A/P

---

Do you participate in training at or by other(s) than departmental facilities (non-fire service facilities)? Yes. Hazardous materials companies, Highway Patrol and various other agencies and companies.

Do you provide training for non-fire service personnel (industrial fire brigades, institutional). If so explain & give location. Yes. A number of private institutions request and receive varying levels of firefighting training and medical training.

### DRILLS

<table>
<thead>
<tr>
<th>Frequency* (inc. hrs.)</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-8 times/yr. 3 hrs/drill</td>
<td>Ladder &amp; hose evolutions, masks</td>
</tr>
<tr>
<td>2 times/week 2 hrs/drill</td>
<td>Regular training program</td>
</tr>
<tr>
<td>min. 4 x / yr 3 hrs.</td>
<td>Ladder/hose/apparatus evolutions</td>
</tr>
<tr>
<td>50 x per yr 1-2 hrs.</td>
<td>Company evolutions varied</td>
</tr>
<tr>
<td>8-10 x per yr 4-8 hrs.</td>
<td>Varied special trng, ie EMT, Post etc.</td>
</tr>
<tr>
<td>110-120 x per yr 1 hr.</td>
<td>Each shift. Drills on equip., policy</td>
</tr>
<tr>
<td>30-40 x per yr 1-2 hrs.</td>
<td>Mult: Co. oper.</td>
</tr>
<tr>
<td>2-3 x per yr depending on station loc.</td>
<td>Interagency oper.</td>
</tr>
<tr>
<td>20-30 x per yr preplanning 1-2 hrs.</td>
<td>Station Fire Prev.</td>
</tr>
</tbody>
</table>

*Indicate on a per shift basis, the number of times per week, month, or year and the number of hours per drill.*
Training Program

Provide a brief description of the type and extent of training relating to the following: (indicate training props used if appropriate)


Transformers same

Underground Structures same

Underground Utilities same

Railroad Incidents (other than Hazardous Materials) Only covered during a special drill or demonstration. A drill confined to stations near R/R facilities.

Other Areas that may be "Subway" related Training bulletin on confined space rescues. No "subway" material.
COMUNICATIONS HEADQUARTERS

Location where Alarms Received/Dispatched: OCD, P-5 Level, City Hall East

Construction: concrete/steel

No. of P.A. Operators: 63/21 per shift

Emergency Power (yes or no): Yes

Dispatching: Briefly describe method of dispatching fire companies, (e.g., radio, telegraph system, telephone, etc.) and location of dispatchers (if different from Headquarters):

Alarms are received by telephone and given to specific stations via telephone cable and/or microwave system.

Public Fire Alarm Installed: (telegraph, radio, etc.) 0

No. of Boxes: 0

If radio, what frequency: N/A

Telephone:

Number of Business Trunks: 6

Number of Emergency Trunks (emergency only): 5 plus 1 Deaf & 1 TTY blind

Recording Facilities (yes or no): Yes

Do you have direct lines to other Agencies: Yes

Do you have direct lines from other Agencies: Yes

Average No. of Fire Calls Handled Per Year: 774,165; 32,108 fires

Average No. of EMS Calls Handled Per Year: 161,550 EMS
calls

Average No. of Other Calls Handled Per Year: 496,364

Private Alarm System: Are any private alarm systems monitored at Fire Alarm Headquarters (yes or no, and give general description of method, company, capacity of system, and space, if any available for additional alarms): No

Auxiliarized Box Connections Permitted? No

Remote Stations (NFPA 72C) Permitted: No

Automatic Tel. Dialer Permitted: No

Special Tel.? No
**RADIO COMMUNICATIONS**

| Assigned Frequencies* | FIRE: 506.6375(TR)/509.6375(TR) 506.0125(TR)/509.0125(TR) 3) 506.9125(TR)/509.9125(T) 4) 506.1375(TR)/506.1375(TR) 7) 33.70, 33.72, 33.74, 33.76, 33.80, 33.84 | EMS: 133.52 | EMS: HEAR 155.28 & 155.34 |

**White** Channel Capability?  Yes  
In how many mobiles?  18  
Portables?  45  

Frequencies Shared: Biocom 468.000, 468.025, 468.050, 468.075, 468.100 & 468.125  

With whom?  Los Angeles County Paramedic Units and Hospitals  

**Base Station(s):** (List Both Fire and EMS)  
City Hall Tower, Mt. Lee, Elysian Pk, V erdugo, Baldwin Hill  
Location(s)  San Pedro Hill, Briarcrest, E-63, Oat Mt., San Pedro Sig. Ofc., Westlake Sig. Ofc. and Coldwater Sig. Ofc.  

**Frequencies*:**  Same as above  
Note: UHF Channels 1-6 


have duplex transmitting capability and require a repeater.  

Recording Facilities? (yes or no)  Yes  

Are all Fire Apparatus Equipped with Radios?  Yes  

Transmit?  Yes  
Receive?  Yes  

For which channels?  From above 7, 8, 9, 11, 12, 13, in VHF and 1, 2, 3, 4, 5, & 6 in UHF  

List other vehicles equipped with radios (i.e., Chief's Car, Assistant Chief's Car, etc.):  All emergency sedans, nonemergency sedans and all front-line firefighting apparatus.  

**Handy-Talkies:**  
Number assigned to engines?  250  
Ladders  150  
Chiefs  45  
Others?  40  

Frequencies*:  All have 2 or more of the above channels.  

*Please indicate Transmitting (T) and Receiving (R) frequencies if they are different.
FIRE PREVENTION

Officer in Charge (name) ___________________________ Rank __________________
Address ______________________________________ Telephone __________________

Number of Inspectors: 85

<table>
<thead>
<tr>
<th></th>
<th>Min. 1 P/Yr</th>
<th>Commercial</th>
<th>Multi Apt/Hotel 4 P/Yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Hazard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Life Hazard</td>
<td>Min. 1 P/Yr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Property</td>
<td>1 P/Yr</td>
<td>Residential</td>
<td>Fire Stations</td>
</tr>
<tr>
<td>(schools, etc.)</td>
<td></td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

Who is performing the inspections (inspectors, fire companies, etc.):

<table>
<thead>
<tr>
<th></th>
<th>Both</th>
<th>Commercial</th>
<th>Both</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Hazard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Life Hazard</td>
<td></td>
<td>Residential</td>
<td></td>
</tr>
<tr>
<td>Public Property</td>
<td>Both</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>(schools, etc.)</td>
<td></td>
<td>Both</td>
<td></td>
</tr>
</tbody>
</table>

Do you conduct sprinkler system tests (if yes, to what extent) No,

witness test made by private company.

Do you conduct fire detection system tests (if yes, to what extent) No,

witness test on installation.

Do you conduct standpipe system tests (if yes, to what extent) No,

witness test made by private company.

The following pages provide the details of the fire service survey pertaining to the County of Los Angeles Fire Department's capability to respond to Metro Rail emergencies.
SCRTD
Fire Service Survey

Name of Jurisdiction: Consolidated Fire Protection District
Mailing Address: PO Box 3009 - Terminal Annex
Los Angeles, CA 90051 Tel. 267-2426

Fire Chief: Clyde A. Bragdon, Jr.
Contact for This Study:

Information provided in this survey should be that which is pertinent to the SCRTD Metro Rail Project.

Does the fire department have the training and equipment to conduct hydrant water flow test: Yes

Where can hydrant water flow test information be obtained: __________

Prevention and Conservation Bureau - Water Section

Do you have mutual aid agreements? Yes With whom? L.A. City in subject area.

Do you have outside aid agreements? Aid With whom? __________
(formal written agreements with designated equipment)

Do you have automatic aid agreements? Yes With whom? L.A. City
(automatic response on alarms) Yes

Do you provide ambulance service (yes or no)? No If no, who provides ambulance service? Private Ambulance

Do you provide paramedic service (yes or no)? Yes If yes, can you transport? No

Do you provide other emergency services, scuba rescue, or other services? (explain): In the West Hollywood area, no.

Do you have any contracts for response outside your primary City/County boundaries? No-with __________
respect to W. Hollywood
Manpower (general):

- Average manning per engine company: 4
- Average manning per ladder company: 4
- Average manning per special company: 2
- Per Paramedic Unit: 2

APPARATUS ASSIGNMENT

Please indicate the normal apparatus response to initial alarms (type of alarm as indicated), including any special vehicles and ambulances (if not fire service vehicles, please indicate under "Remarks").

<table>
<thead>
<tr>
<th></th>
<th>Engines</th>
<th>Ladder</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure Fire: - Residential</td>
<td>4</td>
<td>1</td>
<td>1-Rescue Squad 1-Battalion Chief</td>
</tr>
<tr>
<td>Structure Fire: - Commercial</td>
<td>4</td>
<td>1</td>
<td>1-Rescue Squad 1-Battalion Chief</td>
</tr>
<tr>
<td>Street Box Alarm (if any)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sprinkler Flow Alarm</td>
<td>4</td>
<td>1</td>
<td>1-Rescue Squad 1-Battalion Chief</td>
</tr>
<tr>
<td>Investigation</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto Accident</td>
<td>1</td>
<td></td>
<td>1-Rescue Squad</td>
</tr>
<tr>
<td>Auto, Grass, etc. Fire</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Aid Calls</td>
<td>1</td>
<td></td>
<td>1-Rescue Squad</td>
</tr>
<tr>
<td>Rescue</td>
<td>1</td>
<td></td>
<td>1-Rescue Squad</td>
</tr>
<tr>
<td>Underground Structures</td>
<td>4</td>
<td>1</td>
<td>1-Rescue Squad 1-Battalion Chief</td>
</tr>
<tr>
<td>Fire &amp; Smoke Detector Alarms</td>
<td>4</td>
<td>1</td>
<td>1-Rescue Squad 1-Battalion Chief</td>
</tr>
<tr>
<td>Multiple Alarms - 2nd</td>
<td>(INC'L 1st ALARM) 8</td>
<td>3</td>
<td>1-Rescue Squad, 1-LightUnit 2-BC, 1-AC, 1-Air Utility</td>
</tr>
<tr>
<td>3rd</td>
<td>3</td>
<td>1</td>
<td>1-Air Cache 1-Lighting Unit, 1-DC</td>
</tr>
<tr>
<td>etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic Aid (if any)</td>
<td></td>
<td></td>
<td>(Los Angeles City units upon request)</td>
</tr>
</tbody>
</table>

REMARKS:
# FIRE STATION SUMMARY

For Stations Along Rapid Transit System

<table>
<thead>
<tr>
<th>Station</th>
<th>Address</th>
<th>No. of Paid On Duty</th>
<th>No. of Engine Co's.</th>
<th>No. of Ladder Co's.</th>
<th>No. and Type of Other</th>
<th>Reserve Apparatus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>12 Main Street</td>
<td>10</td>
<td>2</td>
<td>1 (EP)</td>
<td>2T</td>
<td>1F</td>
</tr>
<tr>
<td>8</td>
<td>7643 Santa Monica Blvd.</td>
<td>12</td>
<td>2 (E)</td>
<td>1 (L)</td>
<td>1 Res. Squad</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>958 N. Hancock</td>
<td>5</td>
<td>1 (E)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Indicate Aerial Ladder (L) or Elevating Platform (EP).
2. Indicate Tanker (T), Equipment Van (EV), Ambulance (A), Brush Truck (BT), Mini-Pumper (MP), or Rescue Van (RV).
3. Indicate Ladder (L), Engine (E), Tanker (T), or Ambulance (A), and number.

*Please attach additional pages if necessary.*
APPARATUS SUMMARY

The following section is provided to obtain a general overview of your department's apparatus, its capacity and the equipment it carries, and is to indicate what is typically found on a piece of apparatus in the general proximity of the Rapid Transit System. Please provide as much information as possible without covering each different piece of apparatus.

ENGINES:
- Booster Tank Size(s) 2-500 gal, 1-400 gal.
- Pumping Capacity(ies) 2-1250 gpm, 1-1500 gpm
- Masks: Number & Type (hr. rating, etc.) 20 SCBA positive pressure, 30 min.
- Hose: Type of hose threads National Standard
- Supply Lines: Amount 1000' - 3½", 1600' - 2½"
- Attack Lines: Amount 900' - 1½", 600' - 1" (reels)
- Ladders (indicate number & length):
  Extension 1-16', 2-24'
  Straight 2-16', 3-14', 1-10' Dry Chem.
- Extinguishers (indicate no. & type) 4-20# CO2, 4-2½ gal H2O, 4-20# Dry Chem
- Medical Equipment (brief description):
  Resuscitators, Basic 1st Aid kits, Trema Box, Drug Box, Cardiac care equipment
  Other incl: EKG monitor, defibrillator, radio, MAST suit, Burn packs.
- Rescue Equipment (brief description, include power tools):
  2-12ton jacks, 1-10ton porto power, K-12 Rescue Saw, Cutting torch
  (Note: This equipment carried on Truck company.)

LADDER TRUCKS (including Elevating Platforms):
- Reach (indicate average reach of the Aerial Ladders (L) and Elevating Platforms (EP) in your Dept.):
  L-100' (L)
- Ground Ladders (indicate no. & length):
  Extension 1-28', 1-35', 1-40'
  Straight 1-10', 2-16', 1-14', 1-6' step ladder
- Extinguishers (indicate no. & type) 1-20# DC, 1-20# CO2, 1-2½ gal H2O
LADDER TRUCKS (cont'd):

- Medical Equipment (brief description): Basis 1st Aid Kit
  - Resuscitators or Inhalators? 1-E&J Resuscitator
  - Other

- Rescue Equipment (brief description):
  - Electrical Power Tools
  - Air Tools
  - Other: 1-12ton jacks, 10 ton porto power, K-12 Rescue saw, Cutting Torch.

- Masks: Number & Type (hr rating etc) 6 SCBA positive pressure, 30 min.

RESCUE VEHICLE:

- General (brief description of type of vehicle(s)):

- Equipment Carried (brief description): Cardiac care and monitoring equipment, Radio, mast suit, burn packs, Drugs, Trauma care and misc. other patient care equipment and supplies.

SPECIALIZED EQUIPMENT (Provide brief description and on what vehicle):

- Lifting equipment (capacity?): 2-12 jacks, 1-10 ton porto power jack

- Railroad related:

- Electrical Emergencies: Hot sticks? low voltage wire cutters
  - Insulated wire cutters?
  - Gloves: No Rubber Blankets: No
  - Other

- Underground Structure Emergencies: equipment to provide lighting and ventilation

REMARKS, ADDITIONAL INFORMATION & COMMENTS:
**Training**

Officer in Charge: Director of Training

**Assistant (number)**: Four


Training Facilities: Location 1320 N. Eastern Ave., L.A. 90063

Classroom Capacity: 200

Grounds (size): 4½ Acres

Suburban Structures? Describe: Basement in Drill Tower

Training Tower? Yes — Describe: 5 story reinforced concrete w/basement

Smoke Building? — Describe: Training Tower used for Smoke Training

Fire Building? — Describe: Training Tower used for "Hot" Fires

Any Props? — Sprinklers, Gas, Electrical, Other?

Do you participate in training at or by other(s) than departmental facilities (non-fire service facilities)?

Do you provide training for non-fire service personnel (industrial fire brigades, institutional). If so explain & give location. Yes - "Hot" Fire Drills at Oil Firefighting School in the Castaic Area (Val Verde Park)

**Drills**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Frequency* (inc. hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ladder &amp; hose evolutions, masks</td>
<td>6-8 times/yr. 3 hrs/drill</td>
</tr>
<tr>
<td>Regular training program</td>
<td>2 times/week 2 hrs/drill</td>
</tr>
<tr>
<td>Juvenile Fire Setter Prog.; Ropes, Knots &amp; Hitches; Drill; Fire Simulator Trng.</td>
<td>1 time/year 8 hours/drill</td>
</tr>
<tr>
<td>Hose evolutions, ladders, masks.</td>
<td>2 times/year 4 hours/drill</td>
</tr>
<tr>
<td>Hose lays, ladders, masks, Rade, salvage &amp; overhaul, Vet. ation, spec. trng. &amp; safety</td>
<td>120 times/year 2 hours/drill</td>
</tr>
<tr>
<td>-Same as Above-</td>
<td>24 times/year 2 hours/drill</td>
</tr>
<tr>
<td>All specialized hazards and occupancies.</td>
<td>12 times/year 2 hours/drill</td>
</tr>
</tbody>
</table>

*Indicate on a per shift basis, the number of times per week, month, or year and the number of hours per drill.*
Training Program

Provide a brief description of the type and extent of training relating to the following: (indicate training props used if appropriate)

Electrical Equipment/Facilities (other than transformers) Polychlorinated Biphenyl training by videotape provided by Edison Co., & "Electricity, Facts to Live By". Presented to all personnel in 1981, approximately 3 hours.

Transformers

Underground Structures

Underground Utilities

Railroad Incidents (other than Hazardous Materials)

Other Areas that may be "Subway" related
**Communications Headquarters**

LA County Fire Headquarters

Location where Alarms Received/Dispatched: 1320 N. Eastern Ave., LA 90063

<table>
<thead>
<tr>
<th>Construction</th>
<th>Concrete</th>
<th>No. of F.A. Operators</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Power (yes or no)</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dispatching: Briefly describe method of dispatching fire companies, (e.g., radio, telegraph system, telephone, etc.) and location of dispatchers (if different from Headquarters):

Radio dispatch - Dispatchers located at Headquarters.

Public Fire Alarm Installed: (telegraph, radio, etc.) no

No. of Boxes If radio, what frequency

Telephone:

| Number of Business Trunks | 4 |
| Number of Emergency Trunks (emergency only) | 8 |
| Recording Facilities (yes or no) | Yes |

Do you have direct lines to other Agencies Yes

Do you have direct lines from other Agencies Yes

Average No. of Fire Calls Handled Per Year 12,000

Average No. of EMS Calls Handled Per Year 48,000

Average No. of Other Calls Handled Per Year 14,000

Private Alarm System: Are any private alarm systems monitored at Fire Alarm Headquarters (yes or no, and give general description of method, company, capacity of system, and space, if any available for additional alarms). No

Auxiliarized Box Connections Permitted? No

Remote Stations (NFPA 72C) Permitted? No

Automatic Tel. Dailer Permitted Yes Special Tel. #? regular published emergency number
RADIO COMMUNICATIONS

Assigned Frequencies*:
FIRE: 2
EMS: same as Fire

"White" Channel Capability? Yes In how many mobiles? all Portables?

Frequencies Shared: none

With whom?

Base Station(s): (List Both Fire and EMS)

Location(s)  1320 North Eastern Avenue, LA, CA  90063

Frequencies*  154.43, 154.295

Recording Facilities? (yes or no) Yes

Are all Fire Apparatus Equipped with Radios? Yes

Transmit? Yes Receive? Yes

For which channels? all

If no, explain:

List other vehicles equipped with radios (i.e., Chief's Car, Assistant Chief's Car, etc.): All staff, repair and utility vehicles

Handy-Talkies: Number assigned to engines? 177 (1 ea) Ladders 10 (1 ea) Chiefs 6 (1 ea) Others? 20

Frequencies*: same as base station

*Please indicate Transmitting (T) and Receiving (R) frequencies if they are different.
Officer in Charge (name) George Denos

Address 1320 North Eastern Avenue, Los Angeles, CA 90063

Rank Deputy Fire Chief
Telephone (213) 267-2461

Number of Inspectors: FPD-75 Eng.Co. - 1,500

Average Number of Inspections per Year:

- High Hazard 5,500 (4)
- High Life Hazard 6,500 (4)
- Public Property 5,000 (4)

- Commercial 61,000 (1)
- Residential 33,000 (4)
- Other 2,000 (schools, etc.)

Who is performing the inspections (inspectors, fire companies, etc.):

- High Hazard F.P.D.
- High Life Hazard F.P.D. & Fire Co.
- Public Property F.P.D. & Fire Co.

- Commercial FPD, large - Fire Co., smaller
- Residential FPD, hi-rise - Fire Co., others.
- Other F.P.D. & Fire Co. (schools, etc.)

Do you conduct sprinkler system tests (if yes, to what extent) We require annual flow tests which we observe. Complete tests are required each 5 years.

Do you conduct fire detection system tests (if yes, to what extent) Yes Annual test of smoke and H.A.D. units

Do you conduct standpipe system tests (if yes, to what extent) Yes Visual test annually, flow test each 5 years.

Plan Review: By Whom? F.P.D. Other

-36-
Please provide information on future plans of your department in the following general areas. Only provide information on those items that are fairly certain to occur and would be pertinent to the Rapid Transit System:

**Fire Stations**

no immediate plans

**Fire Apparatus**

no additional

**Manpower**

no additional

**Communications**

no

**Other**
