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Final Report 81152-201

# STUDY OF PUBLIC FIRE FIGHTING CAPABILITIES AND REQUIREMENTS FOR

THE METRO RAIL PROJECT PREPARED IN COOPERATION WITH THE SCRTD FIRE/LIFE SAFETY COMMITTEE

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Kaiser Engineers California (California) Corporation 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 the 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 County Fire Departments to provide the fire protection, rescue, and medical services for potential emergencies that 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 the standards of nationally recognized organizations and the subjective judgment of the persons preparing this study. In all instances, the anticipated needs and configuration of the 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, resource equipment and activity, normal alarm response assignments, special equipment anticipated as necessary for transit system emergencies, communications, and fire prevention programs (see Chapter 5 of this report).

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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 to fire control and suppression (fire-fighting) capabilities.

### FIRE FIGHTING CAPABILITIES/MECHE2 2 8/26/83-cb

#### 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 vehicle resources upon which to draw.

#### 2.2 FIRE SUPPRESSION/MEDICAL AID EQUIPMENT

The typical fire apparatus that respond to reported fires in commercial structures are three engines and two ladder trucks in the City and four engines and one ladder truck in the County. The typical 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 Los Angeles City and County Fire Departments provide emergency medical services with paramedics that respond in rescue vehicles. Transportation of patients to medical facilities is either through fire department vehicles or private ambulance services. The type of medical emergency call determines the equipment and manpower levels required for response.

In general, responses provided should be adequate for anticipated emergencies. Based on the study of Los Angeles' City and County Fire Departments, the fire apparatus now being used are equipped to handle common fire emergencies. Special pieces of equipment may be required to respond to major problems or those unique to the SCRTD Metro Rail System. This is addressed in Chapter 4, Recommendations, Section 4.3, 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 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 resource 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 the event of a multiagency operation. This reliance on radio communication will dictate transit facility requirements as discussed in Chapter 4, Section 4.4.

#### 2.5 INSPECTION PROGRAM

Both fire agencies have ongoing fire prevention inspection programs. The inspection programs require a yearly inspection of all commercial and commercial/residential properties. Occupancies determined as high fire and/or life hazard are inspected several times each year. Technical assistance for inspections is provided through the fire prevention bureaus. Since the bulk of Metro Rail facility inspections will be the responsibility of Metro Rail personnel, any additional inspection work load placed on the fire services will be commensurate with Metro Rail and jurisdictional fire service's policy and procedures.

#### 2.6

#### ASSUMPTIONS OF TRANSIT SYSTEM CONFIGURATION

The recommendations in this report are based on fire-related criteria that are still being developed; 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.

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For the purposes of this study, the Fire/Life Safety implications are treated as an integrated system. Changes in one component could change other components and a re-evaluation may be required. Significant Fire/Life Safety components are:

o Fuel loads

o Fuel arrays

o Area and height

o Separations

o Fire resistivity

o Fixed protection systems

o Ventilation

o Exit facilities

o Exit configuration

o Patron loads

o Operations

o Vehicles

o Communications

o Emergency access

o 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 System. 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.

Due to the unique fire supression tactics, which may be required in a possible underground trainway fire whereby entrance to the trainway will of necessity be from two opposite entry points, close tactical coordination between jurisdictions is needed. Currently, Los Angeles' City and County Fire Departments have a viable mutual aid plan wherein each department may request and receive additional resources to meet emergency demands. These plans will require evaluation and possible additional levels of understanding to cope with the probability of two fire jurisdictions responding to the same emergency.

#### Chapter 4

#### RECOMMENDATIONS

#### 4.1 GENERAL

As a first step toward 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 availability of those public fire services to meet the anticipated needs of the System to provide a level of response 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 to determine needs, to anticipate emergency problems, and to develop 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 System facilities for fight-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 and include, respectively, recommendations for the transit facility, the fire services, and the joint responsibilities.

#### 4.2 TRANSIT FACILITY RECOMMENDATIONS

#### 4.2.1 Intermediate Emergency Access

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. The breathing apparatus are essential for fire fighting in areas with heavy smoke or toxic gas atmospheres. Circumstances such as these have been experienced in underground sections of other transit systems, and can be expected to occur in underground portions of the Metro Rail System. The fire services and the District will have to agree on which breathing apparatus will best meet the needs of emergency personnel during fire situations and how to utilize most effectively the existing state-of-the art equipment.

#### 4.2.2 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 the flow of exiting patrons and impeding their movement during an emergency situation can be avoided with the use of standpipes.

#### 4.2.3 Fire Vehicle for Transit Yards

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, may be necessary. This vehicle will be for in-yard use with limited, but adequate, quick-attack capability and maneuverability. Generally, an extra-small, narrow-bodied, pickup-style, gasoline engine driven truck with the following equipment mounted on the vehicle would suffice:

- o 200 feet of 2-1/2-in. double Dacron jacket hose with Pyrolite couplings
- o 100 feet of 1-1/2-in. double Dacron jacket hose with Pyrolite couplings
- o One gated wye, 2-1/2 in.  $x \ 1-1/2$ "
- o One 2-1/2-in. combination fog-stream-off nozzle
- o Two 1-1/2-in. combination fog-stream-off nozzle
- o Two hydrant wrenches
- o Two universal hose spanners
- o One pickhead axe
- o One pry bar
- o Two 2-1/2-gallon pressurized water extinguishers
- o Two battery-powered hand lights
- o One 20-1b dry chemical extinguisher

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- o One CO, unit with two 50-1b manifold units, 50 feet of hose, and noźzle on reel
- o One deck gun, mounted and demountable, "Ozzie" Akron Brass type, with a 2-1/2-in. inlet and a 1-1/2-in. outlet
- o Two spotlights mounted on the truck and powered by truck system
- o One emergency light and siren
- o One rope, 50-foot manila, 1/2-in. diameter

#### 4.2.4 Hand Cars or Folding Carts

Fire Department operations on any serious fire or rescue operation could require movement of 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 recommended that either a rescue train or District-provided hand cars or folding carts be used in the operational scenarios for emergency response.

#### 4.2.5 Emergency Transport Vehicle

Fire vehicle access to the trackway is not feasible. 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 rescue train or a manually powered vehicle.

#### 4.2.6 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. 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, knowing the location of entry, and by whom and where power is to be shut off.

#### 4.2.7 Fire Brigades for Yard and Shops

It is recommended that the District organize and train volunteer fire brigades form its own personnel to provide rapid first-line fire attack service in the yard 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 training 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, then coded audible signaling systems, actuated by the manual and automatic fire alarm devices in the yard and shops, should be installed. An acceptable alternative is to provide noncoded audible signaling with a slave annunciator at the fire brigade's vehicle station.

#### 4.3 FIRE SERVICES RECOMMENDATIONS

#### 4.3.1 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. Circumstances such as these have been experienced in underground sections of other transit systems, and can be expected to occur in underground portions of the Metro Rail System.

The fire services and the District will have to agree on which breathing apparatus will best suit the needs of emergency personnel during fire situations and how to utilize most effectively the existing state-of-the-art equipment.

#### 4.3.2 Rescue Equipment

The results of the survey and observation indicate that 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. The location and extent of such equipment should be worked out with the local fire services who will be using it. Secured storage at strategic locations should suffice.

#### 4.4 JOINT TRANSIT SYSTEM AND FIRE SERVICES RECOMMENDATIONS

#### 4.4.1 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 and life safety circumstances of a rail rapid transit system. This recommendation has been detailed in a separate memorandum.

## 4.4.2 Communications (Emergency)

Communication between emergency crews on the surface and in 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, at concourse, and at 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.

#### 4.4.3 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 System down-time. Other transit system experience indicates the importance of such training. The District indoctrination and training offered to the fire services should include:

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

#### 4.4.4 Pre-emergency Planning

If response to emergencies and fires is anticipated beforehand and emergency operations are planned in advance, then losses and down-times can be minimized. Fire departments routinely 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 needs to be developed by both sides.

#### 4.4.5 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, through the Fire/Life Safety Committee, may wish to participate in a program to inspect and test fire hoses and associated equipment.

#### 4.4.6 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 the Fire Departments may have access to streets, fire hydrants, the System facilities, and 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 the efficiency and effectiveness of fire protection and emergency services.

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### 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 are provided in Appendix A. The County questionnaires are provided in Appendix B.

# APPENDIX A

## CITY OF LOS ANGELES FIRE DEPARTMENT

# FIRE SERVICE SURVEY

## FIRE FIGHTING CAPABILITIES/MECHE2 8/26/83-cb

# SCRTD Fire Service Survey

•

-	200 N. Main Street
· · · · · · · · · · · ·	Los Anceles, CA 90012Tel.(213) 485-60
Fire Chief:	John C. Gerard
Contact for This S	tudy:James W. Young
- Mailing Address:	200 N. Main Street
	Los Anceles, CA 90012 Tel.(213)_485-59
Information provide to the SCRTD Macro	ed in this survey should be that which is pertinent Rail Project.
Does the fire depar hydrant water flow	rtment have the training and equipment to conduct test:
Where can hydrant y	water flow test information be obtained:
Do you have outside (formal written a Do you have automat	Calif. Masteraid agreements?YesWith whom?Mutual Aid Mutual Fire Procta ad agreements?YesWith whom?Long Beach N.A.S Long Beach N.A.Sagreements with designated equipment)L.A. Countytic aid agreements?YesWith whom?Santa Monica Beverly Hillshse on alarms)YesBeverly Hills
(automatic respon	
•	alance service (yes or no)? Yes If no, who provides
Do you provide ambu ambulance service Do you provide para	e? amedic service (yes of no)? <u>Yes</u> If yes, can you
Do you provide ambu ambulance service Do you provide para transport? <u>yes</u>	e? amedic service (yes of no)? <u>Yes</u> If yes, can you
Do you provide ambu ambulance service Do you provide para transport? <u>yes</u> Do you provide othe	e? amedic service (yes of no)? <u>yes</u> If yes, can you

••

Manpower (general):

Single Triple Co. = 4

Task Force Eng. Co= 5 rage manning per engine company: \_\_\_\_; per ladder company:\_\_\_\_ 5 Average manning per special company: Sg = 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").

	Engines	Ladder	Other
Structure Fire - Residential	2	1	B/C
Structure Fire - Commercial	3	2	B/C
Street Box Alarm (if any)	N/A	N/A	
Sprinkler Flow Alarm	3	2	B/C
Investigation		-	Required full alarm assignment
Auto Accident	1	-	
Auto, Grass, etc. Fire	1	-	
Medical Aid Calls			Ambulance
Rescue	2	1.	B/C
Underground Structures	.3	2	· · · · ·
Fire & Smoke Detector Alarms	.3	2	
Multiple Alarms - 2nd		<u>-</u>	2 Eng,1 Truck, lst Alarm =3 Eng,2 Truck,
3rd 2	N/A		Not less sind, 17 Greater =More than 1st A
etc.			Major Emer=15+companies
Automatic Aid (if any)	See below		

REMARKS: Up to maximum 30 triples Mutual Aid:

a. Calif. Disastor & Civil Defense Master Mutual Aid

b.. Los Angeles County Mutual Aid and Mutual Assistance Agreements

c. Memorandum of Understanding United States Forest Service Zone

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d. Mutual Fire Protection Agreement - Long Beach Navel Station

(FIRST ALA,"" RESPONSE) FIRE STATY SUMMARY

For Stations Along Rapid Transit System

Station	Address	No. of Paid On Duty	No. of Engine Co's.	No. of Ladder Co's.	NO. and <sup>2</sup> Type of Other	Reserve <sup>3</sup> Apparatus
Example	12 Hain Street	10	2	1 (EP)	2T	1E
	800 N. Alameda St.	3.3	3	2 (L)	1 Sq, 1Λ 1 B/C	
	lst & Broadway	33	3	2 (L)	1 Sq, 1Λ 1 B/C	
	5th & Broadway	. 33	3	2 (L)	1 Sq, 2A 1 B/C	
	7th & Flower	33	3	2 (L)	1 Sq, 3Λ 1 B/C	
	Alvarado & 7th St.	33	3	2 (L)	1 Sq, 3Λ 1 B/C	
	Vermont & Wilshire	33	3	2 (L)	1 Sq, 2Λ 1 B/C	
	Wilshire & Normandie	33	.3	2 (L)	1 Sq, 2Λ 1 B/C	
	Wilshire & Western	33	3	2 (L)	1 Sq, 1Λ 1 B/C	<u> </u>
	Wilshire & La Brea	33	3	2 (L)	1 Sq, 2λ 1 B/C	<u> </u>
	Wilshire & Fairfax	33	3	2 (L)	l sq, 2Λ l B/C	

Indicate Aerial Ladder (L) or Elevating Platform (EP).

<sup>2</sup>Indicate Tanker (T), Equipment Van (EV), Ambulance (A), Brush Truck (BT), Mini-Pumper (MP),

Indicate Ladder (L), Engine (E), Tanker (T), or Ambulance (A), and number.

Fairfax/Beverly Bl

- Ventura Bl/Vineland

- Tujunga Av/Chandeler

Fairfax/Santa Monica \*Please attach additional pages if necessary\* 1 Tradition and the state of the

(FIRST ALARM RESPONSE)

Address	No. of Paid <u>On Duty</u>	No. of Engine <u>Co'</u> s.	No. of Ladder <u>Co's</u> .	Type of	Reserve <sup>3</sup> Apparatus
Fairfax & Beverly Blvd.	33	3	2 (L)	1 Sq, 1A 1 B/C	
Fairfax & Santa Monica	4	1	(L.A. C	County Area -	Auto Aid)
Hollywood & Cahuenga	33	3	2 (L)	1 Sq, 2λ 1 B/C	
Hollywood Bowl	33	3	2 (L)	1 Sq, 2λ 1 B/C	
Ventura & Vineland	27	3	1 (L)	1 Sq, 2A 1 B/C	
Tujunga & Chandler	33	3	2 (L)	1 Sq, 1λ 1 B/C	

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### APPARATUS SUMMARY

The following section is provided to obtain a general overview of your partment'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 apparatu

<u>ENGINES:</u>
- 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 (23) Size(s) or (750' 23) (600' 33)
- Attack Lines: Amount <u>1"=500'1½=600</u> 'Size(s) <u>2½"=1500' or 750'</u>
- Ladders (indicate number & length):
Extension 20*
Straight12' roof
Extinguishers (indicate no. & type) 2' gal air pressure, dry chem. 20 1
- Medical Equipment (brief description):
Resuscitators or inhalators? <u>Resuscitators</u>
Other First Aid Kit
- Rescue Equipment (brief description, include power tools):
<u>Hydrant jack, breathing apparatus</u>
Radological 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 <u>12', 14', (2) 35', 50'</u>

Straight (2) 20', (2) 24', Roof 12', 14', 16'

(

- Extinguishers (indicate no. 5 type) 25 gal. air press., dry chem.20 lb. CO<sub>2</sub> 20 lb.

# LADDER TRUCKS (cont'd):

Stedical Equipment (brief description): First Aid Kit
Resuscitators or Inhalators? <u>Resusitator</u>
Other Liter Basket
- Rescue Equipment (brief description):
Electrical Power Tools Drills, lights
Air Tools <u>Chisels</u>
Other <u>Chain saw, rotary saw, cutting torch, life lines</u> , smoke ejecto
- Masks: Number & Type (hr rating etc) 30 min. (1) per assigned member
RESCUE VEHICLE:
- General (brief description of type of vehicle(s)): (2) HU (wrecker)
- Equipment Carried (brief description): <u>Jaws/life</u> , ropes, chains
etc
- Lifting equipment (Capacity?):
- Railroad related:
- Electrical Emergencies: Hot sticks?
Insulated wire cutters? _ yes
Gloves Yes 10,000 volts Rubber Blankets No
Other Other
REMARKS, ADDITIONAL INFORMATION & COMMENTS:
Emer. air (fills air bottles on scene)
Emer. Lighting (provide lights)
ght water (3) apparatus
Helicopters (6)

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## TRAINING

Officer in Charge	
istants (number)	
Training Manual Used?	
Training Facilities: Lo	ocation D.T. 89, D.T. 59, D.T. 21, D.T. 40, D.T.
Subgrade Structures?	Describe Basements in all 5 Drill Towers
Training Tower?	Describe 5-6 story drill towers
Smoke Building?	Describe same
Fire Building?	Describe same
Any Props? Aircraft F	Susilage at Other? Van Nuys A/P

Do you participate in training at or by other(s) than departmental facilities (non-fire service facilities) Yes. <u>Hazardous materials companies</u>. 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.

· · · · · · · · · · · · · · · · · · ·	Frequency* (inc. hrs.)	<u>Subject</u>
Exemple: At Training Grounds	6-8 times/yr. 3 hrs/drill	Ladder & hose evoluations, masks
Example: At Station	2 times/week 2 hrs/drill	Regular training program
At Training Grounds by Instructor		Ladder/hose/apparatus evolutions
At Training Grounds by Co. Officer	50 x per yr 1-2 hrs.	Company evolutions
Classroom		Varied special trng, ie EMT, Post etc.
At Station	110-120 x per 1 hr.	yr Each shift. Drills on equip., policy
Multi-Company Drills	30-40 x per y 1-2 hrs.	r Mult: Co. oper.
Inter-City Drills	depending on	Interagency oper.
Preplanning		Station Fire Prev. r preplanning
	1-2 hrs.	• • •

DRILLS

Vicate on a per shift basis, the number of times per week, month, or year and the number of hours per drill.

Fraining 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) <u>Review</u> of Departmental training bulletin. Occasional special training

on a battalion basis by representative of Department of Water & Power.

Transformers same

Underground Structures

Underground Utilities \_

Railroad Incidents (other than Hazardous Materials) <u>Only covered</u> during a special drill or demonstration. A drill confined to

same

same

stations near R/R facilities.

Other Areas that may be "Subway" related <u>Training bulletin on</u> confined space rescues. No "subway" material.

# COMMUNICATIONS HEADQUARTERS

· •

pcation where Alarms Received/Dispatched OCD,	P-5 Level, (	<u>City Hall</u> Eas
Construction concrete/steel No. of F.A. Operation	ators <u>63/</u>	<u>21 per shift</u>
Emergency Power (yes or no) <u>yes</u>		. •
Dispatching: Briefly describe method of dispat (e.g., radio, telegraph system, telephone, etc. patchers (if different from Headquarters): Alarms are received by telephone and given to telephone cable and/or microwave system.	.) and locati	on of dis-
· · · ·	<u> </u>	
	•	
Public Fire Alarm Installed: (telegraph, radio,	etc.)	
No. of Boxes0 If radio, what frequence	¥	N/A
<u>Telephone</u> :	· · · · · · · · · · · · · · · · · · ·	• ••
Number of Business Trunks	6	<u> </u>
Number of Emergency Trunks (émergency only) 5	plus l Deaf	El TTY blin
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 Average No. of Other Calls Handled Per Year	<u>calls 161</u> 496,364	,550 EMS
Average No. of Other Carrs handled fer fedt		
Private Alarm System: Are any private alarm sy Fire Alarm Headquarters (yes or no, and give ge method, company, capacity of system, and space, additional alarms)No	neral descrip if any avai	otion of
• · · · · · · · · · · · · · · · · · · ·		<u> </u>
	•	
ixiliarized Box Connections Permitted?	No	
Remote Stations (NFPA 72C) Permitted?	NO	· · ·
Automatic Tel. Dialer Permitted No Speci		No
	· /	
	•	

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RADIO COMMUNICATIONS 1/500.3125(1A//509.3125(T)2)506.5375(TR)/509. 3) 506.9125(TR)/509.9125(T)4) 506.1375(TR)/506. ssigned Frequencies\*: FIRES 506.6375(TR)/509.6375(T)6)507.0125(TR)/510. 7) 33.70,8) 33.82,9) 33.94,11, 33.00, 127 33.56 EMS : 1 31 33 52 EMS:HEAR 155.28 & 155.34 "White"Channel Capability? ves In how many mobiles? 18 Portables? 45 Frequencies Shared: Blocom 468.000,468.025,468.050,468.075,468.100 & 468. 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. O: Westlake Sig. Ofc. and Coldwater Sig. Ofc. Fregencies\*: <u>Same as aboye - Note:</u> 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, & in UHF 12-75-Ferdizin: 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 (Portables) Chiefs 45 Others? 40

Frequencies\*: <u>All have 2 or more of the above channels</u>.

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

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# FIRE PREVENTION

--

fficer in Charge (name)	Rank
Aceress	· ·
	Telephone
Number of Inspectors: 85	
•	Year: FPB = 13,000 + 2,000 oil wells CO = 400,000 Brush = 140,000
High Hazard Min. 1 P/Yr	Commercial 1 P/Yr
High Life Hazard Min. 1 P/Yr	Residential Multi Apt/Hotel 4 P/Yr
Public Property 1 P/Yr	OtherS/F Dwelling 1 P/3 Yr
(schools, etc.)	•
Who is performing the inspections	(inspectors, fire companies, etc.):
High Hazard Both	Commercial Both
High Life Hazard Both	Residential Fire Stations
- Public Property Both	Other Both
Schools, etc.)	
Do you conduct sprinkler system t witness test made by private compa	ests (if yes, to what extent) <u>No,</u> ny.
Do you conduct fire detection sys witness test on installation.	tem tests (if yes, to what extent) <u>No</u>
Do you conduct standpipe system to witness test made by private compa	ests (if yes, to what extent) <u>No,</u> ny.
Plan Review: By Whom? Inspector I	I's Other Bldg. Dept.
•	· · · · · · · · · · · · · · · · · · ·
•	
	•
	•

# APPENDIX B

# COUNTY OF LOS ANGELES FIRE DEPARTMENT

# FIRE SERVICE SURVEY

FIRE FIGHTING CAPABILITIES/MECHE2 8/26/83-cb

Date March 31, 1902

SCRTD Fire Service Survey

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Mailing Address: PO Box 3009 - Terminal Annex
Los Angeles, CA 90051 Tel. 267-2426
Fire Chief: Clyde A. Bragdon, Jr.
Contact for This Study:
- Mailing Address:
Tel
Information wided in this survey should be that which is pertinent to the SCRT1 letro 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
Beverly Hills and Do you have mutual aid agreements? Yes With whom?L.A. City in sub- Same as Automatic ject area. Do you have outside aid agreements? Aid With whom? (formal written agreements with designated equipment)
Do you have automatic aid agreements? <u>Yes</u> With whom? <u>L.A. Citv</u> (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 of no)? Yes If yes, can you
transport? <u>No</u>
Do you provide other smergency 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? <u>No-with</u> with whom? respect to W. Hollywood

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## Manpower (general):

Average manning per engine company: <u>4</u>; per ladder company: <u>4</u> Average manning per special company: <u>2</u> Per Paramedic Unit: <u>2</u>

## 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").

	Engines	Ladder_	Other
Structure Firm - Residential	4	1	1-Rescue Squad 1-Battalion Chief
Structure Fir - Commercial	4	1	1-Rescue Squad 1-Battalion Chief
Street Box Alarm (if any)			
Sprinkler Flow Alarm	4	· 1	l-Rescue Squad l-Battalion Chief
Investigation	1 1	ļ	
Auto Accident	1		1-Rescue Squad
Auto, Grass, etc. Fire			
Medical Aid Calls	1		1-Rescue Squad
Rescue	. 1		1-Rescue Squad
Underground Structures	4	1	l-Rescúe Squad 1-Batallion Chief
Fire & Smoke Detector Alarms	4	1	l-Rescue Squad l-Batallion Chief
Multiple Alarms - 2nd	(INC'L le 8	t ALARM) 3	1-Rescue Squad, 1-Lightu 2-BC, 1-AC, 1-Air Utilit
3rd	3	1	l-Air Cache l-Lighting Unit, l-DC
etc.			
Automatic Aid (if any)	(Los Ar	geles Cit	y units upon request)

REMARKS:

FIRE STATION SUMMARY

For Stations Along Rapid Transit System

Station	Address	No. of Paid On Duty	No. of Engine Co's.	No. of <sup>1</sup> Ladder Co's.	No. and <sup>2</sup> Type of Other	Reserve <sup>3</sup> Apparatus
Example	12 Main Street	10	2	1 (EP)	21	1E
8	7643 Santa Monica Blvd.	12	2 (E)	1(L)	1 Res.Squa	
7	958 N. Hancock	5	1 (E)			· ·
·						
-						
						<u> </u>
		· · · · · · · · · · · · · · · · · · ·			·	
			· · · · · · · · · · · · · · · · · · ·			
				·		

Indicate Aerial Ladder (L) or Elevating Platform (EP).

<sup>2</sup>Indicate Tanker (T), Equipment Van (EV), Ambulance (A), Brush Truck (BT), Mini-Pumper (MP), or Rescue Van (RV).

<sup>3</sup>Indicate Ladder (L), Engine (E), Tanker (T); or Ambulance (A), and number.

\*Please attach additional pages if necessary\*

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#### 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 <u>typically</u> 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 apparat

#### 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' 35", 1600' 25"
- Attack Lines: Amount 900' 15", 600' 1" (reels)
- Ladders (indicate number & length): Extension1-16', 2-24'

Straight 2-16', 3-14',

l-10# Dry Chem. - Extinguishers (indicate no. & type)<u>4-20#CO2, 4-25Gal H20, 4-20#Dry</u> Che

- Medical Equipment (brief description): 5-E&J Resuscitators, Basic 1st Aid kits, Resuscitators or inhalators? <u>Trauma Box, Drug Box, Cardiac care equip</u>-Other incl-EKG monitor, defibrillator, radio, MAST suit, Burn pacs.
- Rescue Equipment (brief description, include power tools): <u>2-12ton jacks, 1-10ton porto power, K-12 Rescue Saw, Cutting torch</u> (Note: This equipment carried on Truck company.)

#### LADDER TRUCKS (including Elevating Platforms):

- 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, 1-25gal H20

# LADDER TRUCKS (cont'd):

- **..**...

.

Resuscitators or Inhalators? <u>1-E&amp;J Resuscitator</u> Other	- Medical Equipment (brie	ef description): <u>Basis 1</u>	st Aid Kit
Electrical Power Tools	-	ators? <u>1-E&amp;J Resuscita</u> t	or
<pre>Air Tools</pre>	- Rescue Equipment (brief	description):	
<pre>Air Tools</pre>	Electrical Power Tools	, .	
Other <u>1-12ton jacks</u> , <u>10 ton porto power</u> , <u>K-12 Rescue saw</u> , <u>Cutting</u> Tor - Masks: Number & Type (hr rating etc) <u>6 SCEA positive pressure</u> , <u>30 min</u> . <u>RESCUE VEHICL</u> : - General (br. f description of type of vehicle(s)): 			
To Masks: Number & Type (hr rating etc) <u>6 SCBA DOSITIVE DESSURE</u> . <u>30 min</u> . <u>RESCUE VEHICL</u> .: - General (br. f description of type of vehicle(s)):  - Equipment Carried (brief description): <u>Cardiac care and monitoring</u> <u>equipment</u> , <u>Radio</u> , <u>mast suit</u> , <u>burn pacs</u> , <u>Drugs</u> , <u>Trauma care and misc</u> other patient care equipment and supplies. <u>SPECIALIZED EQUIPMENT</u> (Provide brief description and on what vehicle - Lifting equipment (capacity?): <u>2-12 jacks</u> , <u>1-10 ton porto power ja</u> - Railroad related: <u></u>			Rescue saw, Cutting
- General (br. f description of type of vehicle(s)): - Equipment Carried (brief description): <u>Cardiac care and monitorine</u> equipment, <u>Radio</u> , <u>mast suit</u> , <u>burn pacs</u> , <u>Drugs</u> , <u>Trauma care and misc</u> other patient care equipment and supplies. SPECIALIZED EQUIPMENT (Provide brief description and on what vehicle - Lifting equipment (capacity?): <u>2-12 jacks</u> , <u>1-10 ton porto power ja</u> - Railroad related: - Electrical Emergencies: Hot sticks? <u>low voltage wire cutters</u> Insulated wire cutters? Gloves <u>No</u> <u>Rubber Blankets</u> <u>No</u> Other Underground "Structure Emergencies equipment to provide lighting and ventilation <u>EMARKS</u> , <u>ADDITIONAL INFORMATION &amp; COMMENTS</u> :	·		Torcl ositive pressure,
<ul> <li>Equipment Carried (brief description): <u>Cardiac care and monitoring</u> equipment, <u>Radio</u>, <u>mast suit</u>, <u>burn pacs</u>, <u>Drugs</u>, <u>Trauma care and misc</u> other patient care equipment and supplies.</li> <li>SPECIALIZED EQUIPMENT (Provide brief description and on what vehicle</li> <li>Lifting equipment (capacity?): <u>2-12 jacks</u>, <u>1-10 ton porto power ja</u></li> <li>Railroad related:</li></ul>	RESCUE VEHICL :	• • •	· · · ·
ecuipment, Radio, mast suit, burn pacs, 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 ja - Railroad related: - Railroad related: - Electrical Emergencies: Hot sticks? <u>low voltage wire cutters</u> Insulated wire cutters? Gloves <u>No</u> Rubber Blankets <u>No</u> Other Underground "Structure Emergencies equipment to provide lighting and ventilation EMARKS, ADDITIONAL INFORMATION & COMMENTS:	- General (br. 5 descript	ion of type of vehicle(	s)):
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 ja - Railroad related: - Railroad related: - Electrical Emergencies: Hot sticks? <u>low voltage wire cutters</u> Insulated wire cutters? Gloves <u>No</u> Rubber Blankets <u>No</u> Other - Underground "Structure Emergencies equipment to provide lighting and ventilation EMARKS, ADDITIONAL INFORMATION & COMMENTS:	- Equipment Carried (brie	f description): <u>Cardiac</u>	care and monitoring
SPECIALIZED EQUIPMENT (Provide brief description and on what vehicle         Lifting equipment (capacity?): 2-12 jacks, 1-10 ton porto power ja         Railroad related:			Trauma care and misc.
- Lifting equipment (capacity?): <u>2-12 jacks, 1-10 ton porto power ja</u> - Railroad related:	•	· • •	
Insulated wire cutters? Gloves <u>No</u> Rubber Blankets <u>No</u> Other Underground "Structure Emergencies equipment to provide lighting and ventilation EMARKS, ADDITIONAL INFORMATION & COMMENTS:			
Insulated wire cutters? Gloves <u>No</u> Rubber Blankets <u>No</u> Other Underground "Structure Emergencies equipment to provide lighting and ventilation EMARKS, ADDITIONAL INFORMATION & COMMENTS:			
Other Underground Structure Emergencies equipment to provide lighting and ventilation EMARKS, ADDITIONAL INFORMATION & COMMENTS:			de wire cutters
Underground "Structure Emergencies equipment to provide lighting and ventilation EMARKS, ADDITIONAL INFORMATION & COMMENTS:	Gloves <u>No</u>	Rubber Blankets	No
equipment to provide lighting and ventilation		·	
EMARKS, ADDITIONAL INFORMATION & COMMENTS:			
	equipment to provide lic	hting and ventilation	
	EMARKS, ADDITIONAL INFORM	LATION & COMMENTS:	• .
	·		
		• • • • • • • • • • • • • • • • • • • •	

TRAINING

Officer in Charge Director of t	Training
Assistants (number) Four	
Training Manual Used? 3 Depti, Dril	1 Manuals, Multitude of Reference Books, Manuals
Training Facilities: Location 137	O N. Eastern Ave., L.A. 90063
Classroom Capacity ? 200	Grounds (size) 44 Acres
Suburade Structures? Describe	Basement in Drill Tower
Training Tower? Yes Describe	5 story reinforced concrete w/basement
Smoke Building? Describe	Training Tower used for Stoke Training
<u>Fire Building?</u> — Describe	Training Tower used for "Hot" Fires
Any Props? Sprinklers, Cas, Electrical	Othër?
Do you participate in training at	or by other(s) than departmental fac-

ilities (non-fire service facilities)

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

DRII	LLS	·
	Frequency* (inc. hrs.)	Subject
Example: At Training Grounds	6-8 times/yr. 3 hrs/drill	Ladder & hose evoluations, masks
Example: At Station	2 times/week 2 hrs/drill	Regular training program
At Training Grounds by Instructor	l time/year 8 hours/drill	Juvenile Fire Setter Prog.; Ropes, Knots & Hitches;Driv Drill; Fire Simulator Trng.
At Decentralized Trng.Grnds.by Instructor At-Training-Grounds-by-CoOfficer	2 times/year 4 hours/drill	Hose evolutions, ladders, masks.
Classroom		
At Station	120 times/year 2 hours/drill	Hose lays, ladders, masks, r aid, salvage & overhaul, Ve ation, spec. trng. & safety
Multi-Company Drills	24 times/year 2 hours/drill	-Same as Above-
Inter-City Drills		
Preplanning		All specialized hazards and or occupancies.

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

## Training (con't.)

## 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 biphen: 1 training by videotage 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 READQUARTERS

IA County Fire Headquarters Location where Alarms Received/Dispatched 1320 N. Eastern Ave., LA 90063
Construction <u>Concrete</u> No. of F.A. Operators 8
Emergency Power (yes or no) Yes
Dispatching: Briefly describe method of dispatching fire companies, (e.g., radio, telegraph system, telephone, etc.) and location of dis- patchers (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 Trunks4
Number of Emergency Trunks (emergency only) 8
Recording Facilities (yes or no) _Yes
Do you have direct lines to other Agencies <u>Yes</u>
Do you have direct lines from other Agencies Yes
Average No. of Fire Calls Handled Per Year <u>12,000</u>
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. Dialer Permitted Yes Special Tel. #7 regular
published emergency number

## FRDIO COMMUNICATIONS

Assigned Freque	EMS: same as Fire
White"Channel C	apability? Yes In how many mobiles? all Portables?
Frequencies Sha	red: <u>none</u>
With whom?	
	:(List Both Fire and EMS)
Location(s)	1320 North Eastern Avenue, IA, CA 90063
 Fregencies*	154.43, 154.295
•	
_	ilities? (yes or no) <u>Yes</u>
Are all Fire App Transmit? Ye For which char	ilities? (yes or no) <u>Yes</u> paratus Equipped with Radios? <u>Yes</u> as <u>Receive? Yes</u> nnels? <u>all</u>
Are all Fire App Transmit? Ye For which chan If no, explain	ilities? (yes or no) <u>Yes</u> paratus Equipped with Radios? <u>Yes</u> as <u>Receive? Yes</u> nnels? <u>all</u>
Are all Fire App Transmit? Ye For which chan If no, explain List other vehic	ilities? (yes or no) <u>Yes</u> paratus Equipped with Radios? <u>Yes</u> as <u>Receive? Yes</u> nnels? <u>all</u>
Are all Fire App Transmit? Ye For which chan If no, explain List other vehic	ilities? (yes or no) <u>Yes</u> paratus Equipped with Radios? <u>Yes</u> <u>es</u> <u>Receive? Yes</u> nnels? <u>all</u> n: cles equipped with radios (i.e., Chief's Car, Assistant
Are all Fire App Transmit? Ye For which chan If no, explain List other vehic Chief's Car, etc Handy- Talkies:	<pre>ilities? (yes or no) Yes</pre>
Are all Fire App Transmit? Ye For which chan If no, explain List other vehic	ilities? (yes or no) <u>Yes</u> paratus Equipped with Radios? <u>Yes</u> <u>es</u> <u>Receive? Yes</u> nnels? <u>all</u> n: cles equipped with radios (i.e., Chief's Car, Assistant

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

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# FIRE PREVENTION

officer in Charge (name) Georce Demos	Rank Deputy Fire Chief
Address 1320 North Eastern Avenue, Los A	Angeles, CA 90063
	Telephone_(213) 267-2461
Number of Inspectors: FPD-75	Eng.Co 1,500
Average Number of Inspections per Y	ear:
High Hazard <u>5,500 (4)</u>	Commercial <u>61,000 (1)</u>
High Life Hazard 6,500 (4)	Residential 33,000 (4)
Public Property 5,000 (4)	Other 2,000
(schools, etc.)	
Who is performing the inspections (	inspectors, fire companies, etc.):
High Hazard F.P.D.	Commercial FPD, large - Fire Co., smalle
High Life Hazard <u>F.P.D. &amp; Fire Co.</u>	Residential FPD, hi-rise - Fire Co., othe
Public Property F.P.D. & Fire Co.	Other F.P.D. & Fire Co.
(schools, etc.)	
Do you conduct sprinkler system test annualflow tests which we observe. Con	
Do you conduct fire detection system Annual test of smoke and H.A.D. units	n tests (if yes, to what extent) Yes
Do you conduct standpipe system test Visual test annually- flow test each 5	
Plan Review: By Whom? F.P.D.	Other

## FUTURE



Flease 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:

# ire Stations

no immediate plans

## re Apparatus

mo additional

npówer

no additional

mmunications

no

her

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