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ORIGINAL

Decision No. <u>86856</u>

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

CITY OF TORRANCE 3031 Torrance Boulevard, Torrance, CA 90503,

Complainant,

VS.

CALIFORNIA WATER SERVICE COMPANY 1720 North First Street, San Jose, CA 95112,

Defendant.

Case No. 10140 (Filed July 14, 1976)

William G. Quale, Attorney at Law, for complainant.

McCutchen, Doyle, Brown & Enersen, by Crawford Greene, Attorney at Law, for defendent.

Jasper Williams, Attorney at Law, and Robert C. Durkin, for the Commission staff.

OPINION

The complainant alleges that on July 4, 1976 a fire occurred in a single-family dwelling in the city of Torrance, California. Units from the Torrance Fire Department responded promptly and connected a fire pumper to the fire hydrant located near the intersection of Calle Mayor and Via Monte D'Oro, the hydrant closest to the dwelling. The water flow available from that hydrant was inadequate for fire suppression purposes. An attempt was made to utilize another hydrant on Calle Mayor to the east of the fire, but the water flow available from that

hydrant was inadequate for fire suppression purposes. The volume of water available from each of the hydrants was approximately 100 to 150 gallons of water per minute. General Order No. 103 of the Public Utilities Commission, as modified April 15, 1975, requires a minimum flow of 1,000 gallons per minute for a lot density of three or more single-family residential units per acre, which rate would be applicable to the area in which the dwelling is located. The Insurance Service Office, as a result of its 1975 Torrance Municipal Survey, established a flow requirement for the Riviera section of the city of Torrance at 1,500 gallons per minute. Water service in the Riviera section of the city of Torrance, including the area affected, is supplied by the defendant. At the time the hydrants were needed a subterranean water main valve, which should have been open in order to supply adequate water flows for firefighters, had been closed.

The complainant requests that the Commission conduct an investigation to ascertain why the control valve was left closed; how such occurrences can be prevented in the future; whether the defendant has the capacity to deliver water at an adequate flow rate for fire suppression purposes throughout its entire service area in the city of Torrance; and if the defendant does not have such capacity, that it be ordered to take appropriate measures to obtain such capacity.

The defendant admits that there was a fire at the time and place alleged and that the Commission's General Order No. 103 requires a minimum flow of 1,000 gallons per minute for a lot density of three or more single-family residential units per acre, but contends that by reason of the provisions of paragraph I.l.a. of that General Order, denies that the rate of flow would be applicable to the area in which the single-family

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Exhibit 1, the Commission staff report, was received in evidence. The report states:

The Commission's General Order No. 103, "Rules Governing Water Service Including Minimum Standards for Design and Construction", was amended on April 15, 1975 by Decision No. 84334 to include Section VIII, "Fire Protection Standards". Section VIII sets standards of main sizing, minimum flows in a distribution system, fire hydrant agreements, and requirements for independent sources of supply. The portion of defendant's plant (mains, service lines, etc.) along Calle Mayor was built in 1932, except for 300 feet of asbestos-cement pipe installed in 1971. Section I. 1.a. of General Order No. 103 states in part:

'The standards herein prescribed are intended as minimum standards applicable after adoption and continued full utilization of existing facilities is contemplated. Nothing contained in any of the rules herein promulgated shall be construed to require the replacement or abandonment prior to the expiration of economic utilization of facilities in use at the time of adoption of: these rules unless the Commission, after hearing, shall enter an order directing the abandonment or replacement of particular facilities found to be inadequate for the rendition of proper public utility service."

It therefore appears that Section VIII of the General Order No. 103 is not retroactively applicable to defendant's service along Calle Mayor.

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A sequence of hydrant flow tests was conducted shortly after the fire incident by defendant's personnel. The following table shows the reported results of defendant's tests:

Hydrant	Observed Flow (GPM)	Residual Pressure (psig)	Date of Test		
1	Unable to read	None	7-7-76	Valve at Monte D'Oro closed during test	
2	Unable to read	None	7-7-76	and before removing obstructing parts from valve at Via Los Miradores. This simulates conditions during fire incident.	
1	1,240	20	7-7-76	With valve at Via Monte D'Oro opeced	
2	850	20	7-7-76	but before removing obstructing parts from valve at Via Los Miradores.	
1	750	20	7-8-76	Reconstruction of flows which would	
2	350	20	7-8-76	have been available if valve at Monte D'Oro were closed but valve at Via Los Miradores had not malfunctioned.	
1	1,470	20	7-8-76	After correction of	
2	850	20	7-8-76	both problems.	

On October 26, 1976 a staff engineer observed hydrant flow tests conducted by the Torrance Fire Department. These tests were conducted at the hydrants utilized during the fire incident:

Hydrant	Observed Flow (GPM)	Residual Pressure (psig)	Static Pressure
	(GPM)	(ber8)	(psig)
l	925	52	79
2	775	30	80

ORDER

IT IS ORDERED that:

- 1. The California Water Service Company shall cooperate with the city of Torrance in periodic hydrant flow tests which the City of Torrance may wish to conduct.
- 2. As a guide to the city of Torrance in determining which fire hydrants to test, the California Water Service Company will continue to notify the city of Torrance promptly whenever a distribution main valve which affects fire hydrant flows is down and when it is reopened, and shall maintain written records of such closings and openings of such valves which will be available for inspection by the city of Torrance.

The effective date of this order shall be twenty days after the date hereof.

	Dated at	San Francisco		, California,	
this	1143	day of	JANUARY		
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				Commissioners	

Commissioner Vermon L. Sturgeon, being necessarily absent, did not participate in the disposition of this proceeding.