AND THE PROPERTY OF THE PROPER

INSURANCE SERVICES OFFICE

OF OREGON

721 S. W. OAK STREET, PORTLAND, OREGON 97205
TELEPHONE (503) 226-2651





CITY OF TILLAMOOK

H. E. MARQUELING, MANAGER

January 5, 1977

Mr. Richard C. Townsend City Manager City Hall Tillamook OR 97141

Dear Mr. Townsend:

As requested during your phone conversation with Mr. Marqueling and also in your December 27th letter, we are enclosing a summary of grading points and improvement recommendations.

After you have had a chance to study the enclosures, we will be glad to arrange for a meeting.

Very truly yours,

INSURANCE SERVICES OFFICE

D. F. Wagner, Supervisor Public Protection Department

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ny/ enclosures - as noted

INSURANCE SERVICES OFFICE

OREGON STATE OFFICE

SUMMARY OF GRADING

GRADING SCHEDULE FOR MUNICIPAL FIRE PROTECTION (1974 Edition)

Date Graded: October 1976		City or District: City of Tillamook						
Total Deficiency: 2,250 Points.		Graded by: A. Nisbet	Engineering Representative					
Pro	tection Class 5							
	WA	TER SUPPLY						
			Austmod					
~,			Assigned Points					
Item	1		A CALLON					
1.	Adequacy of Supply Works		0					
2.	Reliability of Source Supply	1.5						
3.	Reliability of Pumping Capacity	Commence of the second						
4.	Reliability of Power Supply Condition, Arrangement, Operation, and	0						
5.								
	Adequacy of Mains	10						
	Reliability of Mains Installation of Mains	1 2						
	3. Installation of Mains 3. Arrangement of Distribution System							
10.	Additional Factors and Conditions Rela	ting to Supply and Distrib	oution 20					
11.	Distribution of Hydrants							
12.	Hydrants - Size, Type and Installation		12.					
13.	Hydrants - Inspection and Condition		ST. Contraction of the Contracti					
14.	Miscellaneous Factors and Conditions 15							
			Total 4/33					
	FIRE	DEPARTMENT	If ween					
1	Pumpers	1887	23 + 7					
	Ladder Trucks		117_					
	Distribution of Companies and Type of	Apparatus	45					
4.	Pumper Capacity	17 450						
5.	Design, Maintenance, and Condition of	29						
6.	Number of Officers	4/3						
7.	Department Manning	208						
8.	Engine and Ladder Company Unit Mann	118						
9. 10.	Waster and Special Stream Devices							
			and the second s					
700	Condition of Hose		and the control of th					

			Assigned	
Item			Points	
- Company of the Comp			218	
	Training Province to Alexand		27	
14.	Response to Alarms Fire Operation		191	
			0	
17	Special Protection Miscellaneous Factors and Conditions		36	
11.	Total	-	1103	
	FIRE SERVICE COMMUNICATIONS			
			20	
1.	Communication Center		91	
	Communication Center Equipment and Current Supply		60	
	Boxes Alarm Circuits and Alarm Facilities Including Current Supply at Fire		Constitution of the Consti	
4.	Stations		5	
	Material, Construction, Condition, and Protection of Circuits		4	
6.	Radio Fire Department Telephone Service		6.	
	Ti Alaum Onematoma		7	
9.	Conditions Adversely Affecting Use and Operation of Communication Facili-	K 0	0	
	ties and the Handling of Alarms		8	
10.	Credit for Boxes Installed in Residential Districts	(-)		
	Total		208	•
	TYPE CAPPEN CONTROL			
	FIRE SAFETY CONTROL			
4	Flammable or Compressed Gases		19	_
Α.	Flammable or Compressed Gases Flammable or Combustible Liquids		86	
	Special Hazards		75	
	Miscellaneous Hazards		86	100
5.			32	по
	Building Laws		28	-
7.	Electricity		20	***
8.	Heating and Ventilating Installations		200	100
	Total	Ottobacco	387	
	ADDITIONAL DEFICIENCIES			
	Alimatic Conditions		21	
	Adverse Climatic Conditions Other Adverse Conditions or Occurrences		.30	•
2.	Divergence Between Water Supply and Fire Department		68	80
3.	Total		119	
		distanti	and the second s	
	SUMMARY OF DEFICIENCY POINTS			
			4/33	
	WATER SUPPLY		1103	
	FIRE DEPARTMENT FIRE SERVICE COMMUNICATIONS		208	
	FIRE SERVICE COMMUNICATIONS FIRE SAFETY CONTROL		387	map .
	ADDITIONAL DEFICIENCIES		119	1007
	Total Deficiency		2250	
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RECOMMENDATIONS

The attached recommendations are offered to assist officials in planning improvements in the fire protection facilities. Since you have the final decision on any improvement program, we have listed several suggestions. We have not included every item for which a deficiency is charged but have attempted to cover the heaviest deficiency items.

We would like to emphasize that even a partial improvement in any of the items could provide a beneficial effect in the grading. It is possible to achieve a better protection class by partial improvement in many items or major improvement in a few important items.

If after reviewing these recommendations officials believe they can accomplish selected improvements, we can estimate the effect those improvements would have on the grading.

If work on these improvements is not started within one year, we reserve the right to review this information for conformity with standards in use at that time. These recommendations are made for fire insurance rating or grading considerations only and no representations or warranties of any kind are made or intended.

Public Protection Department INSURANCE SERVICES OFFICE of Oregon Material referenced in the recommendations may be obtained from the following sources:

American Insurance Association

85 John Street New York NY 10038

American Water Works Association

Publications Sales 6666 West Quincy Avenue Denver CO 80235

Insurance Services Office

Municipal Survey Service 160 Water Street New York NY 10038

National Fire Protection Association

Publications Service 470 Atlantic Avenue Boston MA 02210

WATER SUPPLY:

1. That, in addition to the present records and plans, the following be added as part of the records system. All plans and vital records should be kept up to date, in duplicate and safely filed to avoid a total loss in event of a catastrophe.

MAINS: size, location, depth of bury, type of construction, date installed and fittings, leaks, breaks and important repairs. SUPPLY WORKS: plans and details of each feature. GATE VALVE BOOK: detail of size, tied-in location, construction, inspection and condition including valves closed and direction of rotation. CONSUMPTION: production (master meters, etc.), sales and losses, number of services—metered and otherwise. HYDRANTS: size, type, construction, branch details, inspection and condition.

The American Water Works Association's Manual 8, A Training Course In Water Distribution, is a good guide to use for a records system.

2. That arterial, lateral and gridiron mains be laid in proper locations and of adequate size to concentrate in any section of the City the fire flow recommended for that area. (See the fire flow test sheet for further details.)

That distribution mains which supply hydrants be 6-inch or larger, fully circulating and cross-connected at frequent intervals.

3. That additional hydrants be installed in those areas not properly protected as follows: (a) in high value districts, one hydrant for each 106,000 square feet; (b) in residential districts, one hydrant for each 160,000 square feet.

FIRE DEPARTMENT:

- 1. That 4 engine companies be provided with a total pumping capacity of 4,000 gpm. In addition, sufficient reserve capacity is recommended to maintain this total in the event the department's largest pumper is out of service.
- That a ladder truck be provided, properly equipped and manned.
- 3. That a new modern fire station be built with adequate room for all apparatus, sleeping quarters, kitchen facilities, hose drier, tower and meeting room.

- 4. That additional manpower be provided.
- 5. That training facilities be provided. These should include training grounds, tower, smoke building, burn pits and other equipment.
- 6. That a regular drillmaster be appointed and a program started to include a minimum of two hours per day per man, multi-company drills, large fire training and extensive pre-planning for all large structures.

FIRE SERVICE COMMUNICATIONS:

1. That a new communications center and dispatch center be provided. The National Fire Protection Association's Pamphlet 73, Public Fire Service Communications, should be used as a guide in the construction and equipping of such a facility.

FIRE SAFETY CONTROL:

 That the fire prevention program be continued with inspections of severe life hazard occupancy properties be made 4 times a year. Other commercial properties should be inspected at least 2 times each year.

January 1977

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