

# OKLAHOMA & INDIAN TERRITORIES INSPECTOR

Reserve days

OKLAHOMA CITY, OKLA., Dec. 1, 1904.

DEAR SIR:

Owing to a change in the classification of towns in Indian Territory, it is advisable that you be notified of same and I beg to submit herewith a table showing the relation of the new classification to the old.

| OLD.             | NEW. |
|------------------|------|
| 1st.....         | 3rd  |
| 2nd and 3rd..... | 4th  |
| 4th.....         | 4½   |
| 0.....           | 5th  |
| 5th.....         | 6th  |

The new 5th class town is a town having adequate water supply from public wells or cisterns or reliable streams, with hand, water-engine and with fully organized and well-equipped volunteer department and fire alarm or double-tank chemical engine, with material for at least five re-charges and with volunteer department fully organized and well-equipped and fire alarm.

The new 4½ class is a town a little better than the 5th class and not as good as the 4th.

The following pages contain the definitions and classification of water works and fire department requirements.

I am, Yours very truly,

C. T. INGALLS,  
Manager.

## MUNICIPAL PROTECTION.

### Classification of Cities and Towns.

*First Class.*—Full paid fire department and fire patrol. Reservoir with gravity system of waterworks (with capacity for five days' supply) and with sufficient head at all hours to give pressure at hydrants of not less than eighty pounds, with duplicate supply main to service pipes and fire alarm telegraph, and with approved building and inspection law well enforced.

*Second Class.*—Full paid fire department. Pump station and direct pressure system of waterworks, with duplicate pumps and duplicate supply mains or intermediate reservoir or standpipe provided (for auxiliary supply) with an independent main to service pipes; and fire alarm telegraph, and with approved building and inspection law well enforced.

*Third Class.*—Paid fire department (not less than five men to be full paid) with gravity or direct pressure system of waterworks, or without duplicate supply main to service pipes, and with fire alarm telegraph.

*Fourth Class.*—Part paid or efficient volunteer fire department with a good system of waterworks and telegraph or telephone fire alarm system.

*Fifth Class.*—Volunteer fire department with good or fair water supply and with either hand or approved double tank chemical engine.

*Sixth Class.*—Having no fire department or water supply.

### MUNICIPAL PROTECTION—Defined and Classified. WATER WORKS.

**Gravity System.**—*Reservoir* to be supplied by an adequate pumping system, when necessary, and to have a capacity equal to five days' supply for domestic and fire purposes, with sufficient elevation to give eighty pounds pressure at highest hydrants, or, in lieu, a pressure sufficient to throw a stream over the highest building in the vicinity.

**Pumping or Direct System.**—*Machinery* to be in duplicate, each pump to have a capacity to deliver water at highest hydrant of not less than eighty pounds pressure, or, in lieu thereof, a sufficient pressure to throw water over highest building in vicinity. A constant pressure of not less than forty pounds to be maintained.

*Standpipe or Intermediate Reservoir*, to be maintained in the absence of duplicate feed or supply mains, and to have a capacity of not less than ten hours' supply for domestic and fire purposes.

**Combined System** (gravity and direct) to be equivalent in construction, maintenance and capacity to Gravity or Pumping system, as above defined.

| PIPING AND HYDRANTS.  | 2d Class | 3d Class | 4th Class |
|---|----------|----------|-----------|
| Main or service pipe to be in duplicate in the absence of intermediate reservoir..... | 12 inch  | 10 inch  | 8 inch    |
| Street mains—business district.....   | 10 "     | 8 "      | 6 "       |
| Street mains—dwelling district.....   | 8 "      | 6 "      | 4 "       |
| Hydrants—business dist. (distances between)   | 150 feet | 300 feet | 300 feet  |
| Hydrants—dwg. district (distances between).   | 300 "    | 500 "    | 500 "     |

NOTE.—All hydrants to be double, non-freezable patterns.

## FIRE DEPARTMENT.

**Housing.**—All apparatus, materials and equipment to be safely housed in buildings conveniently and centrally located, owned or rented by the city, not used for dangerous special hazard purposes, and free from dangerous external exposure.

**Organization.**—Every department to be organized and drilled at frequent intervals, with full quota of officers, men and horses necessary for all apparatus. No department to have less than fifteen men.

**Hose.**—To be kept in good working order and furnished with all necessary attachments and appliances, the supply to be adequate to equip all hose-carrying vehicles to their intended capacity, with an equal amount of hose and attachments in reserve for emergencies.

**Apparatus.**—*Steam engines*, each to be equipped with four men, two horses and two equipped hose carts (with their quota of men and horses). One to be a "hose and chemical," or, in lieu, each hose cart to carry a hand chemical extinguisher.

**Hose Carts**, if in retinue of engine, each to have a quota of one horse and two men. If acting independently of engine, one horse and three men.

**Hook and Ladder Trucks**, not less than one to each four steamers, nor less than one in any town of higher grade of protection than No. 5. Each truck to have a quota of six men and two horses, excepting in towns of fourth class a one-horse truck and three men may be accepted at the discretion of inspector. A chemical engine combined with a hook and ladder truck to be equivalent to the latter, or, if "chemical," has double tank to be the equivalent of a double tank chemical engine.

**Chemical Engine**, to be double tank (no credit for single tank) with quota of four men and two horses, or in lieu, in fifth class towns if drawn by hand, twenty men.

**Territory.**—The supply of apparatus, horses and men (whether on salary or volunteer) must be adequate, in judgment of the inspector, to the territory to be protected, according to its character; a due regard being paid to character of streets in the matter of paving and grades, and the size, materials and occupancy of buildings to be protected.

**Ordinances.**—*Fire ordinances*, when taken into account in establishing grades of protection, should provide for efficient police regulations and embody approved requirements in regard to the construction of buildings and fire limits with provision for regular inspection.

**Electrical Ordinance.** The national code for electrical installation should be required in all towns lighted by electricity. The absence of satisfactory ordinance should reduce the classification of a town one grade.

## GENERAL DIRECTIONS.

The division of protection into six grades in this classification reduces the difference in hazard between towns of contiguous grades, to less than 10 per cent. In view of this small difference and the liberality of the requirements, inspectors should insist upon a strict compliance in establishing the grade under which a town is to be classed.

When the general plan of protection conforms to a given grade, but a defect is found in any given feature so serious in its nature as to invalidate the efficiency of the protection as a whole, the town should be classed as of sixth grade, pending reform of the defect in question. *This applies particularly to water supply, which should be adequate at all seasons and for all purposes.* When otherwise, the grade of protection should be correspondingly reduced.

## CLASSIFICATION. WATER WORKS.

|  | 2d Class.   | 3d Class.   | 4th Class.   | 5th Class.   |
|--|---|---|--|--|
| <b>Streets.</b>                            | 60 ft. wide, paved in business and dwelling districts.                      | 60 ft. wide, paved in business district.  | 60 ft. wide.   |  |
| <b>Water Works.</b>                        | Direct, Gravity or Combined.  | Direct, Gravity or Combined.  | Direct, Gravity or Combined.   |  |
| <b>Capacity.</b>                           | Standard.   | Standard.   | Satisfactory.  |  |
| <b>Pressure.</b>                           | Standard.   | Standard.   | Satisfactory.  |  |
| <b>Pump House.</b>                         | Brick building used for no other purpose, and free from dangerous exposure. | Brick building used only for public purposes, and free from dangerous exposure. | Not to be used for other purposes, especially hazardous, and to be free from dangerous exposure. | Water supply from wells, cisterns or available bodies of water. (See Second Note.) |
| <b>Machinery (Pump House.)</b>             | Standard.   | Standard.   | Standard.  |  |
| <b>Standpipe or Intermediate Reservoir</b> | Standard, if feed pipe not in duplicate.                                    | Standard, if feed pipe not in duplicate.  | Standard, if feed pipe not in duplicate.   |  |
| <b>Piping and Hydrants.</b>                | Standard.   | Standard.   | Standard.  |  |

## FIRE DEPARTMENT.

|                                | 2d Class.   | 3d Class.   | 4th Class.   | 5th Class.  |
|--------------------------------|---|---|--|---|
| <b>Housing.</b>                | Standard.   | Standard.   | Standard.  | Standard.   |
| <b>Organization.</b>           | Standard:<br>Horses owned by city and stabled on premises ready for duty.<br>Men, full quota on salary, sleeping on premises.   | Standard:<br>Horses owned or retained by city and stabled on premises ready for duty.<br>Men, not less than eight, on regular salary, balance may be volunteer. | Standard:<br>Satisfactory arrangement required for adequate supply of men and horses. If latter not stabled on premises, to be kept in vicinity and readily accessible at all times. | Standard.   |
| <b>Hose and Appliances</b>     | Standard.   | Standard.   | Standard.  | Satisfactory as to quality and quantity.  |
| <b>Apparatus and Equipment</b> | Standard, and in addition one double tank chemical engine.  | Standard.   | Standard   | Hand engine or double tank chemical with material for at least five recharges (no credit for single tank chemical.) |
| <b>Territory.</b>              | Standard.   | Standard.   |  | Standard.   |
| <b>Alarm.</b>                  | Satisfactory electrical system communicating with all Fire Department buildings, with call boxes in business and dwelling districts, including all modern devices for promptness of response. | Satisfactory electrical system.   | Standard.<br><br>Satisfactory electrical system, or, in lieu, fire alarm bell or steam whistles.   | Same as Fourth Class Towns.*  |
| <b>Ordinances</b>              | Standard: (Fire and Electrical.)  | Standard: (Fire and Electrical.)  | Standard: (Electrical, if required.)   | Standard: (Electrical, if required.)*   |

NOTE.—First and sixth grades of protection omitted from above, as the former can be classed as such only after special investigation with the approval of governing bodies of underwriters, and the latter has no recognized fire protection, or, if any, such as does not comply with the above requirements for a Fifth Class Town.

NOTE.—Towns of less than 2,500 population, with water-tanks of twenty to fifty thousand gallons' capacity, piped through business district, may be classed as of Fifth Grade of protection in the territory so protected, when the pressure, piping, hydrant distribution, hose carts and all features of Fire Department marked with an asterisk (under 5th class) are satisfactory.