**STATE OF UTAH DDW/DEQ RULE 309**

**FIRE PROTECTION, FIRE HYDRANTS**

**RULE 309-550-5(5) FIRE PROTECTION.** When a public water system is required to provide water for fire flow by the local fire code official, or if the system has installed fire hydrants on existing distribution mains for that purpose:

(a)The design of the distribution system shall be consistent with the fire flow requirements **as determined by the local fire code official.**

(b) The location of fire hydrants shall be consistent with the requirements of **the State-adopted fire code** and **as determined by the local fire code official.**

(c) The pipe network design shall permit fire flows to be met at representative locations while minimum pressures, as required in R309-105-9, are maintained at all times and at all points in the distribution system.

(d) Fire hydrant laterals shall be a minimum of 6 inches in diameter.

**RULE 309-550-6(5) FIRE HYDRANTS.**

(a) Hydrant drains shall not be connected to, or located within, 10 feet of sanitary sewers. Where possible, hydrant drains shall not be located within 10 feet of storm drains.

(b) Auxiliary valves shall be installed in all hydrant leads.

(c) Hydrant drains shall be installed with a gravel packet or dry well unless the natural soils will provide adequate drainage.

**RULE 309-550-6(6)(a) AIR RELIEF VALVES AND BLOW-OFFS.** At high points in water mains where air can accumulate, provisions shall be made to remove air by means of hydrants or air relief valves.

**RULE 309-550-6(7) DEAD ENDS.**

(a) To provide increased reliability of service and reduce head loss, dead ends shall be minimized by making appropriate tie-ins whenever practical.

(b) Where dead-end mains occur, they shall be provided with a fire hydrant if flow and pressure are sufficient, or with an approved flushing hydrant or blow-off for flushing purposes. Flushing devices shall be sized to provide flows that will give a velocity of at least 2.5 fps in the water main being flushed. No flushing device shall be directly connected to a sewer.