



**State Board of Examiners of Plumbing,  
Heating and Fire Sprinkler Contractors**

**From: Dale L. Dawson, Executive Director  
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**GEOHERMAL HVAC INSTALLATIONS**

Over the last several years with the increased popularity of geothermal HVAC system installations there has been an increased misunderstanding on the licensing requirements for these installations. Although incorrect, there is a widely held belief in the industry that well contractors can perform the piping installation on geothermal installations, be it vertical or horizontal. The act of drilling the well and grouting the well casing is not governed by our licensing board, but the task of installing the piping (open loop or closed loop) is regulated by the Board's Laws and Rules. The installation of piping does require either an H-3 license (for systems 15 tons or below) or an H-2 license for systems larger than 15 tons. The definition of H-3 and H-2 reads in part as follows:

*The phrase "heating, group number two" means an integral system for heating or cooling a building consisting of an assemblage of interacting components producing conditioned air to raise or lower the temperature, and having a mechanical refrigeration capacity in excess of fifteen tons, and which circulates air.*

*The phrase "heating, group number three" shall be deemed and held to be a direct heating or cooling system of a building that raises or lowers the temperature of the space within the building for the purpose of comfort in which electric heating elements or products of combustion exchange heat either directly with the building supply air or indirectly through a heat exchanger using an air distribution system of ducts and having a mechanical refrigeration capacity of 15 tons or less. A heating system requiring air distribution ducts and supplied by ground water or utilizing a coil supplied by water from a domestic hot water heater not exceeding 150 degrees Fahrenheit requires either plumbing or heating group number one license to extend piping from valved connections in the domestic hot water system to the heating coil and requires either heating group number one or heating group number three license for installation of coil, duct work, controls, drains and related appurtenances.*

Licensees who hold H-1 licenses **cannot** perform the geothermal piping installations since their license (H-1) only covers hot water or steam piping systems. It is illegal for a well contractor to contract the geothermal piping installation even if the geothermal piping installation is subcontracted to a licensee who holds the appropriate license. In addition, it is illegal for a licensee (H-2 or H-3) to subcontract these installations from a well contractor. Well contractors can only contract or perform that is classified as well construction activities through their board. Should anyone have any questions or concerns please contact our office for further details.