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SAFETY INFORMATION BULLETIN: SB00-15 Rev. 2

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Subject: Water Treatment Facilities

The Technical Standards and Safety Act, 2000, (Act) and Regulations for Boilers and Pressure Vessels (Regulations) Section 2(2)(g) exempts pressure vessels from the requirements of the Regulation if such vessels are used exclusively for hydraulic purposes at temperatures no greater than 150°F (65°C), Subsection (2)(e) exempts pressure equipment that contain liquids not more hazardous than water, at a pressure no greater than 250 psi and at a temperature no greater than 150°F (65°C).

Water treatment facilities have historically fallen under similar exemptions, provided they were indeed designed for and operated at temperatures less than or equal to 150°F (65°C). Facilities operating at temperatures greater than 150°F (65°C) are subject to the Regulations and specifically, the pressure vessels are required to be protected against over-pressure by a safety device, registered under Section 4 of the Regulations and operated in a manner that is safe, prudent and in full compliance with the water treatment facilities designers recommended practice.

BACKWASHING OF FILTERS, REGENERATION OF SOFTENERS AND ION EXCHANGERS.

It is strongly recommended that when the backwash or regeneration mode is initiated that after closure of the service water inlet and outlet valve the backwash or regeneration outlet valve is fully opened before opening the backwash or regeneration inlet valve. This will prevent the vessel from experiencing the full pump pressure during these cycles. If the operating procedures do not recommend this sequence to take place, the designers of the vessel must consider the maximum pressures, which could be experienced due to full pump pressure and any applicable Regulatory requirements.

We recommend at this time that you review your water treatment system and the relevant operating procedures and if necessary make changes which will bring the system into full compliance with the Act and Regulations.

Director
Boilers and Pressure Vessels Safety