

CLAYTON remodeled, modernized and updated a 20 years old steam and hot water system

CASE HISTORY

The Children Psychiatric 200 Beds Hospital "Juan N. Navarro" of the Secretary of Public Health Secretary located at Southern Mexico, City, provides external and internal attention to a good number of children with psychiatric problems.



New Technology to improve hospital services

The hospital initiated in the 60s with two small Clayton Steam Generators. In the 80s, they installed two 100 BHP Clayton Steam Generators to provide Steam and Hot Water for Hospital services, kitchen, laundry and hot water.

With the passing years their operating conditions changed, the steam demand decreased and the hot water demand increased. The equipment accessories and specially the hot water tanks deteriorated after 25 years of continuous operation.

The officers of the Hospital invited Clayton to present a project to meet their present and projected steam and hot water requirements, to extend the life of their existing system and meet the new safety and commission regulations, at a minimum cost.



Old Steam Generators and Hot Water Tanks

Clayton de Mexico proposed a new system which included the removal of the hot water storage tanks with the heating exchange system, the installation of two small Clayton hot water generators for direct recirculation with an small hot water tank, the reconditioning of their two 100 BHP Generators and the installation of a new automatic volume control Twin Water Softener.

The project proposed was approved and the new system is un full operation with great operating savings. Now, a single 100 BHP generator is required for their steam supply and the hot water is provided with the Hot Water Generator. The Clayton 100 BHP Steam Generators were reconditioned and will continue their efficient operation providing steam for many more years, and the complete installation meets the new safety and emission regulations.

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The following recommendation was presented to cover the following important aspects:

1. Retire the corroded hot water tanks definitively.
2. Total rehabilitation of two 100 BHP Steam Generators.
3. Installation of two small new Hot Water Generators
4. Installation of an Automatic Volume Controlled Softener.
5. Hot water direct recirculation through a small tank.

This proposal was welcomed by the authorities of the Secretary of Health so we proceeded to start with the job.

The results were more than satisfactory, when reflected a substantial reduction up to 10 to 20% of the habitual operation expenses.

Joined to the above-mentioned, an important flexibility of operation was obtained because it was not necessary to produce steam to heat the hot water tanks any more, and at the same time, was reduced the full capacity to feed equipment that necessarily uses steam

Now a single generator is able to satisfy their needs and the other one stay in stand by.

By this way is completely controlled the risk that the Hospital Unit was left without the indispensable steam or hot water services because of an accidental failure or an unexpected corrective maintenance.



New Presence of the boiler room



Small tank for direct hot water recirculation



Twin Automatic Volume Softeners