



Flores Consulting Services, Inc. |

3847 Westside Ave. | Los Angeles | CA 90008 | P: 323 481-1645 | natof2014@gmail.com

Design and Construction of 1.4MW High Temperature Fuel Cell UCI Medical Center

- Managed for UCI Medical Center (UCIMC) the Design and Construction of a new High Temperature Fuel Cell.
- Insured that the utilities required by the fuel cell were in place or brought to the site without impacting the on going operations of the medical center.
- The fuel cell supplies 1.4MW of electricity which is approximately one quarter of the needs of the medical center.
- It also supplies 200 tons of refrigeration which is introduced into the OSHPD chilled water loop that supplies the main hospital. It is used for space cooling.
- Flores Consulting Services, Inc. (FCSI) coordinated the efforts of Fuel Cell Energy (FCE) the owner of the fuel cell, its contractor and UCIMC.
- UCIMC entered into a Power Purchase Agreement (PPA) with FCE. FCSI designed and oversaw the installation of a real time monitoring systems to insure UCIMC is getting the power and chilled water it is due under the PPA and to ascertain the overall efficiency of the system.
- The effort required close coordination with Southern California Edison (SCE), The Southern California Gas Company (SCG) and their planning and engineering departments to insure that the system met all of their requirements, especially those related to inadvertent export protection of electricity for SCE and that the house natural gas piping met all of SCG's safety requirements..

UCI Medical Center High Temperature Fuel Cell



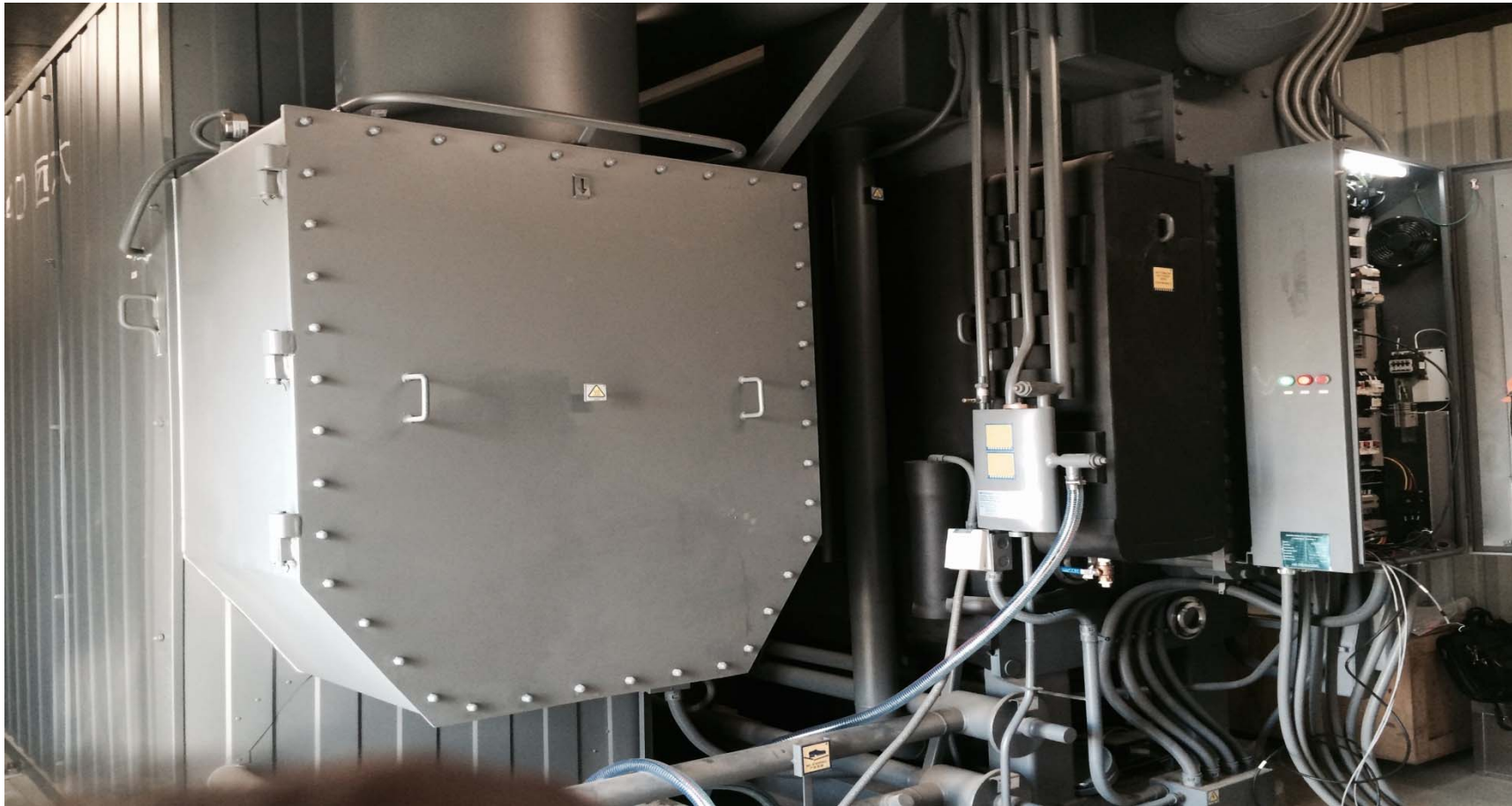
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Absorption Chiller UCI Medical Center High Temperature Fuel Cell



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