

Message from Tim Clarke, CEO of DWMC

Welcome to the fourth DWMC newsletter. With our two super-sized cranes working in tandem at site, the boiler hall structure is taking shape quickly, as we await the arrival of the first boiler assemblies.



Away from the main process buildings, work is progressing well in the water treatment plant, including the air-cooled condenser units. Check out this month's Spot Focus which looks at the way we use and recycle water for the plant.

Project progress

The feed hopper for line-one has been installed and work is underway fitting and aligning the ram-feeder that will move the waste from the hopper onto the combustion grating that feeds the combustion chamber below the boiler. The supporting plinth for the turbine is nearing completion, whilst in Europe the turbine rotor has been manufactured and is ready for a series of pre-delivery performance tests. Following the success of the Heat Stress Awareness campaign during the summer months, our Contractor has launched the Working at Height, Dropped Objects campaign, corresponding with the extensive height working taking place at this stage of construction.



Safety campaigns help to focus attention on specific safety issues that are relevant at the time. A specific training rig has been erected to help workers understand the dangers of working at height and the safety procedures and equipment needed to keep them safe.



Environmental and Social

E+S Focus 'Emergency Procedures'. Keeping our workforce safe involves preparing for a range of emergency situations than can arise during major

construction work. In the event of a full site emergency our teams are trained to evacuate to designated emergency rendezvous points which are located around the site. To ensure all persons can be accounted for in emergencies, our Contractor has installed turnstiles and all persons wishing to enter the site area must activate the gate using their personal identity card.



Regular drills are carried out to ensure that staff understand the emergency procedures and the site has a well-equipped medical centre staffed by qualified nurses, available 24/7. The workforce includes first aiders and persons trained to use fire equipment.

Focus Spot - Water treatment Plant

Heat from the incinerated waste passes through the boiler, converting water into high pressure, superheated steam, at 850 degrees Celsius. Flue gases from combustion are treated in a separate process, while the superheated steam at 78 bars pressure drives the turbine generator. Some of the steam produced is used to pre-heat the blown air for the combustion process, and low-pressure steam discharging from the turbine housing then passes through condensers and the recovered water is re-circulated back into the closed loop system following a series of filtration processes in the water treatment plant, including reverse osmosis. Some of the process water goes to cool ash from the bottom of the incinerator grating, which is later allowed to evaporate in the pre-maturation area and additional water required to replenish the volume, known as make-up water, is supplied separately to the plant from DEWA.



The concrete structures of the water treatment plant have been erected in preparation for the installation of the process pipework, cooling fans and additional services.

Please check out our website for more project information, to leave a comment or to raise a grievance. www.DWMC.ae.