

WWMC Newsletter Number 29 October 2023

Message from Tim Clarke, CEO of WWMC

Welcome to our October newsletter. As we begin Q4 of 2023 our EPC contractor has completed the heat stress awareness campaign that has been running throughout the summer months.



Our safety record remains excellent and we have just reached 9 million hours worked without a lost time injury. The final steam blowing works in boiler 25 are being completed this month and we are hopeful for success in the target plate tests due early in November. This will give us the assurance that steam quality is suitable for use in the turbine from all five boilers. Dubai Municipality has been trialling the use of larger waste collection vehicles at specific times of the day this month. This will help to maintain the delivery of conforming waste, and maximise the logistics of waste deliveries with the use of bulk containers.

A 70 cubic meter capacity bulk ejector vehicle delivering waste to block 1



Project Progress

The project workforce dropped below 1,000 this month, as the remaining construction works are being finalised and contractors demobilise. The laydown areas at the rear of site are cleared and we expect the materials and structures from the western aspect to be removed in the next few weeks. To aid safety our contractor has erected vehicle sheeting and desheeting stations, adjacent to the IBA maturation area and at the front of the weighbridges. Tipper trucks loaded with IBA must be sheeted before entering the public road network, and waste vehicles arriving must be able to remove sheets from open loads safely, before discharging waste. Preparations are being made for the installation of the remaining three environmental monitoring stations. The plant will be served with four monitoring stations from COD, measuring noise, dust, odors and air quality. Data from the units will

be transferred automatically to the DM environmental team. Our EPC contractor is making final adjustments in waste bunker 2 and we will resume waste deliveries here before the end of November. Discussions are underway about commissioning tests for block 2, and final acceptance tests for the plant. Project progress is ahead of the revised schedule of September 2022, and we are expecting to begin final acceptance testing during January 2024.

Sheeting station for IBA collection vehicles



Focus on Operations

By the end of October we have received and burned 323,000 tons of municipal solid waste (MSW) from the Emirate of Dubai, recovering 66,000 tons of metals that will be sold and recycled. Of the incinerated bottom ash (IBA) produced so far, 2661 tons has been collected by DM, following the 12 weeks maturation times needed for stabilisation, and 10,171 tons of fly ash from the Flu Gas treatment process (FGT) has been removed from site. Our exhaust stack emissions are monitored by a continuous emissions monitoring system, which records 13 parameters including CO, CO₂, HCL, NH₃, H₂O and dust concentration. Emissions for block one (Boilers 11 and 12) are automatically transmitted to DM's environmental monitoring team, and since the start of early operations our emission levels have remained compliant with the regulatory standards. One of the environmental benefits of our EfW plant is a reduction in CO₂e emissions over the life of the plant (35 years) of 65M tons. This is achieved by diverting the waste from landfill, which releases methane & CO₂, and the replacement of fossil fuel with waste to produce power (Power generation in the UAE is generally achieved using gas) Our nett saving of CO₂e is a cumulative saving to date of approximately 150,000 tons CO₂e.

For more information about the WWMC project, to request information or to raise a grievance please email us at info@wwmc.ae.