DWMC Newsletter Number 7, December 2021

Message from Tim Clarke, CEO of DWMC

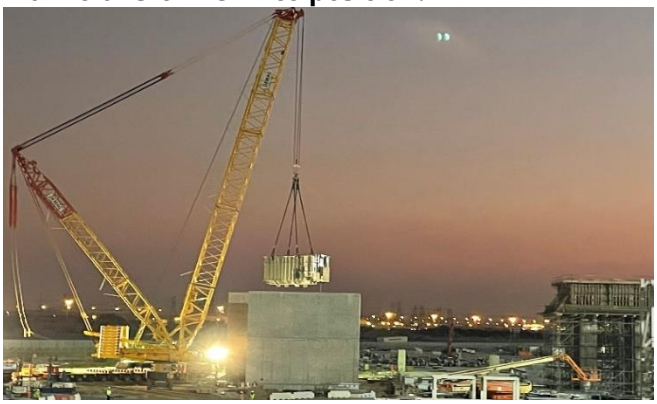
Welcome to the seventh DWMC monthly newsletter. As we close on 2021, we can reflect on a highly productive year for the DWMC project. We witnessed the safe arrival and installation of some of the heaviest pieces of plant at site this month; the main and auxiliary transformers and the feedwater tank are all now in-situ. Progress continues on schedule and our contractor's safety record remains first class, with another safety award ceremony this month, commemorating a further 1 million safe working hours.

Project progress

Fitting out work in the control room is well underway with further installation of power conduit and AC ducting during December. Internal walls are being erected in the Technical Block and AC ducting installation is due to begin shortly. The softened water tanks have now been installed at the Water Treatment plant, and the overhead Waste Crane that will serve lines 11 and 12 is now at site, where pre-assembly works prior to installation are ongoing at time of publication.

The final concrete raft supporting the turbine generator has been poured this month and construction of the Accommodation Building is now above ground level. Post erection works on the main and auxiliary transformers are under way, with the fitting of service connections and peripheral systems, in preparation for the first filling of oil.

A heavy lift crane manoeuvres the 177-tonne main transformer into position.



E+S Focus 'Traffic Management.

Due to the large number of vehicles attending the DWMC project site every day, the EPC contractor has developed a traffic management plan. This helps to coordinate the transportation of large loads coming to site, separates the access and egress arrangements for large and saloon vehicles entering the site, keeps site roadways open during the changing geography of the construction area, and helps reduce the risk of road traffic accidents on the site and at the site entrances. Guests coming to site are given pre-arrival information regarding safe access, parking, and speed limits and project staff are issued with vehicle passes to maintain a high level of security.

Focus Spot – Working with Concrete

The most widely used element of structure at the DWMC plant is reinforced concrete. It is used in all areas, and can be found in building foundations, walls, supporting columns and horizontal beams. As concrete is weak in tensile stress it needs to be strengthened with steel structures known as reinforcing bars, or re-bar. Although some concrete structures are cast away from the site and transported to location, many of the larger elements such as walls and floors are cast in-situ. Lattices of rebar are pre-formed into the required shape for the structure and then encased in formwork, into which the liquid concrete is pumped. The liquid concrete sets firm between 24 and 48 hours, achieving its maximum strength after about seven days.

A concrete pump pouring the final turbine support plinth and Rebar structures in IBA area

DWMC Team

Dovile and Darren joined the DWMC team in Q4 2021. Dovile is our Office manager based in the Design District office and Darren is our Mechanical Engineer based at site.

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