

65 Pump Units in One Water Mist Mega Project

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Bio¹: Dr. Mohamed Sorour is the Founder and CEO of Deutschland Technology, which is by far the number 1 water mist expert in the Middle East and North Africa region for the past 20 years. Dr. Sorour holds a bachelor's degree in Electrical Engineering, a master's degree in Fire Engineering and a PhD in Fire Engineering. Dr. Sorour also holds an MBA from a Polish business school.

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Abstract

Water mist technology, like no other fire-fighting technology, is very different in theory than in real applications. After executing more than 250 water mist turnkey projects, a lot of different applications with great scientific, testing and design challenges were encountered. Especially in the Middle East and the North Africa region, many projects are more of mega projects with tens of smaller projects and applications inside. One very challenging mega project, yet adds a lot of knowledge, is the Holy Mosque in Makkah Project. 65 water mist pump units were designed, installed and tested, with their nozzles coordinated with massive MEP trades including HVAC and others – all according to the international water mist codes. This gave birth to a great chance to convert all theory and fire testing to real challenges on real applications in our real life. The project included all different kinds of applications: tunnels, hospitals, security buildings, offices, high-rise buildings (300+ m high), server rooms, data centers, electrical rooms, you name it. What is really worth sharing is that the client decided building an enormous utility building (biggest utilities building in the world according to Guinness Records). This building is far from the Holy Mosque so all utilities were carried to this building and all gathered in one spot – you could imagine the hazard. Only water mist experts would do imagine. In the 15-20-minute

presentation, we would like to share the knowledge and the challenges to all the experienced water mist attendees.

KEYWORDS: Mega project, coordination, 65 pump units