

## **Top Tier COMAH Safety Report, Occupied Building Risk Assessment, Safety and Environmental Risk Analysis Ondeo Nalco**

Ondeo Nalco, formerly Nalco Chemical Company, ranks as one of the world's largest makers of water-treatment chemicals. Ondeo Nalco's Northwich site required assistance with the development of an occupied building risk assessment and COMAH safety report to satisfy the requirements of the Control Of Major Accident Hazards (COMAH) Regulations 1999 (SI 1999, No. 743).

The total inventory of dangerous substances that could be present at Ondeo Nalco's Northwich site results in the site being classed as a 'top tier' installation, dictating the need to prepare and submit a safety report detailing their operation, management and control procedures, and a quantified assessment of the risks inherent in operating the process to people on and off the site and to the environment. The HSE also require top tier installations to undertake an occupied building risk assessment.

Entec used a team of specialists in plant and process operations, qualitative risk assessment, detailed consequence assessment, environmental risk assessment, environmental management systems, safety management systems, environmental toxicology, ecology, and emergency planning.

Entec prepared the occupied building risk assessment to allow subsequent integration into the COMAH Safety Report. This structured approach eliminated duplicating effort and enabled the client to gain valuable insights while developing their safety management systems.



The environmental risk assessment identified the activities presenting the highest potential risks, and facilitated preventative actions to be taken to avoid the scenarios modelled becoming a reality.

Ondeo Nalco required additional resource to address the regulatory requirements, and Entec was able to provide support for all aspects of the safety report and occupied building risk assessment with validation and review by the client.

The client has benefited from the services of Entec in preparing a well-structured safety report in a number of areas of operation. The process highlighted several opportunities to improve its safety management system, strengthening procedural control on the site, and development of an emergency plan.

*Specialist risk  
assessments  
significantly reduce  
risk of major accident  
to the environment*

