

AWWA-J100 Risk Assessments in the Water Sector

Following the terrorist attacks of 9/11/2001, the water sector was the first sector to receive a congressional mandate to conduct assessments to identify vulnerabilities to terrorist threats for community public water supplies serving more than 3,300 persons. Over the last seventeen years, assessments in the water and wastewater sector have evolved from terrorism vulnerability assessments to all hazard vulnerability assessments including malevolent and naturally occurring hazards. We now have a methodology that is the ANSI/ASME-ITI/AWWA standard for the sector. This standard, *Risk Analysis and Management for Critical Asset Protection Standard for Risk and Resilience Management of Water and Wastewater Systems*, commonly called the J100 Risk Assessment is a customized assessment for the water sector and is based on RAMCAP methodology. J100 is a process for analyzing and managing the risks associated with malevolent attacks and naturally occurring hazards against water infrastructure.

DC Water and Sewer Authority (DC Water) has recently completed a comprehensive, enterprise-wide J100 Risk Assessment of all DC Water critical assets including the assets that are outside the District in Maryland and Virginia using the J100 Risk Assessment composed of seven interrelated analytic steps. Our assessment validated some recognized threats to our mission and identified others that may have equal or greater impacts. Most importantly, using the methodology, we have prioritized risk reduction recommendations based on physical, operational, and cyber remediation and resilience and developed an implementation strategy. We are using the valuable information acquired in this process to buy down and manage risk thus protecting our mission to distribute drinking water to the District of Columbia and provide wastewater treatment services to the federal government, the residents, and the visitors in the District of Columbia and the National Capital Region.