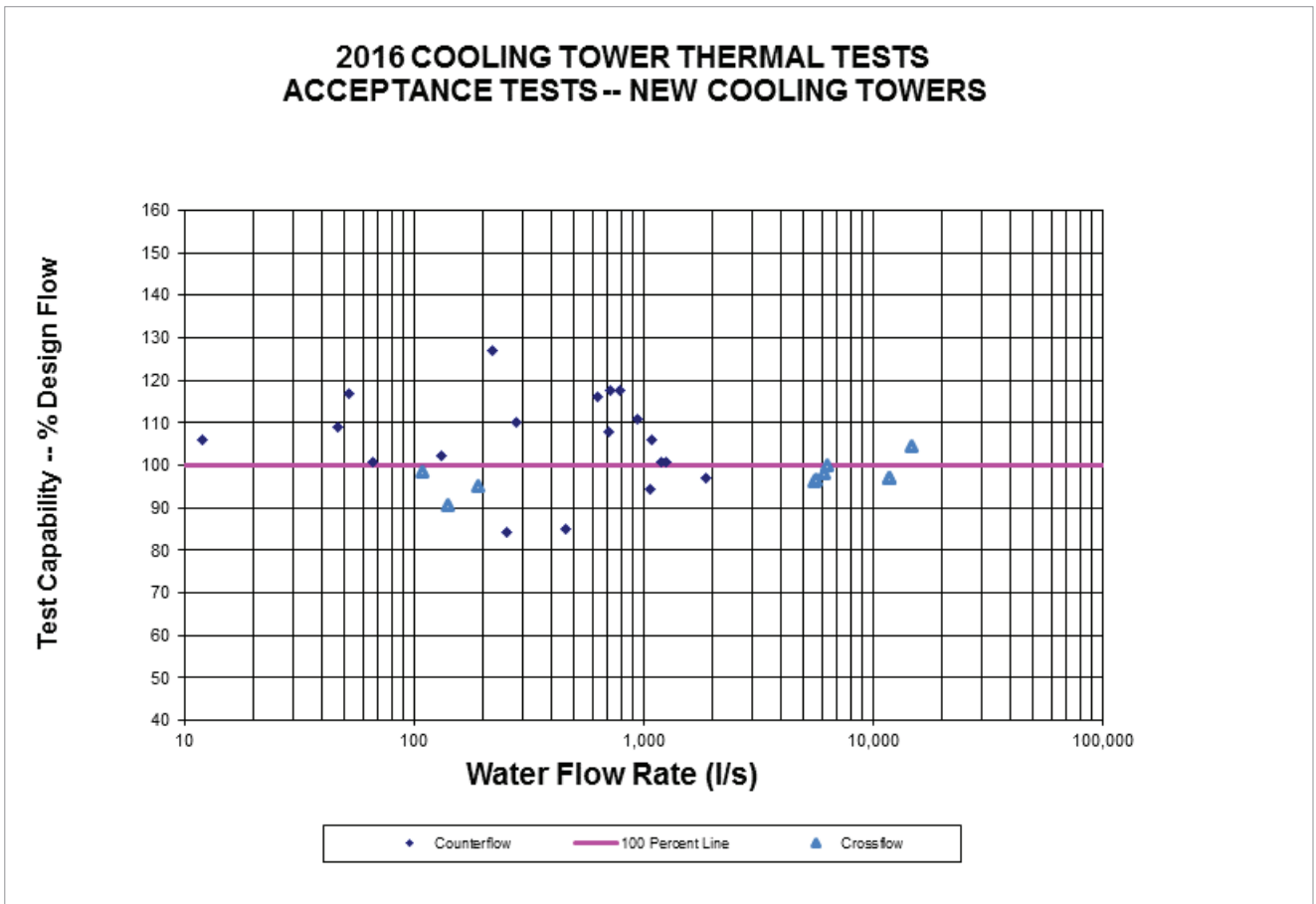


2016 Cooling Tower Thermal Test Results

The graph below is extracted from an annual report compiled by the Cooling Technology Institute (CTI) for all of the CTI tests conducted last year on new towers with thermal guarantees. If you look closely at the distribution of results, you'll notice that there is a fair amount of scatter in performance and you'll also notice that a lot of the larger towers do not meet thermal guarantees.

For 2016, only 40% of the towers that cooled greater than 30,000 gpm met their contractual guarantee. While the percentage of towers that pass in any given year can change, this passing percentage is not unusual. It is also worth noting that the contractual stakeholders typically know that a tower is going to be tested as this is specified in the contract at the time the tower is purchased. In spite of this, in a number of years the passing percentage of large towers is below 40%.



CTI tests are conducted by licensed agents that have been vetted to ensure that there is no conflict of interest. The licensed agent also has to have accurate code-compliant test instrumentation, detailed calibration records, years of testing experience, etc.