

September 24, 2019 - KSE Presents Goethals Bridge Construction Project at the ACEC Tri-State Conference

The KS Engineers team (KSE) made a presentation at the ACEC Tri-State conference in Atlantic City on September 24, 2019, on the Construction Engineering Inspection (CEI) and QA services for the Goethals bridge replacement project. The one-hour presentation which received a PDH approval for both NY and NJ was made by James Adams, PE, - VP and Field Project Manager; Rasool Attar, PE – Senior Project Engineer, and Scott Plant, PE – Senior Structural Field Engineer. The presentation discussed the complex nature of the new cable stayed bridge construction and KSE's role as the lead CEI and QA firm.



The Goethals Bridge spans the Arthur Kill between Staten Island, NY and Elizabeth, NJ. By the beginning of the 21st century, the original Goethals Bridge was recognized to be functionally obsolete. To replace it, the Port Authority of New York and New Jersey (PANYNJ) chose to use the public-private partnership delivery method. As part of the Developer/Client's (NYNJ Link's) team, KS Engineers, P.C. (KSE) was selected to perform Construction Quality Assurance (QA) and Construction Engineering and Inspection (CEI) Services.

The vast and complex web of interacting processes that comprised the construction of the new bridge (and the demolition of the old structure) required an array of innovations in monitoring those processes, from permitting to quality assurance, to resource tracking, to CEI scheduling.

While the Construction Contractor developed its own Lead Contractor Quality Control Plan, this had to be audited by KSE as the CEI Consultant. An extensive independent testing program was created by CEI for all material that went into the construction, above and beyond the quality control (QC) testing performed by the Contractor (QC testing). It also had to be coordinated with the separate and independent testing performed by the PANYNJ. This QA Plan also included the inspection of construction activities throughout the process. At the height of the construction activities, 35 persons from the KSE team were active on site, performing inspections and making certain that all the QC requirements were met.

