



MD 90 Top and Underside Bridge Inspection

SUMMARY

In 2012, NEXCO-West USA worked with AECOM to investigate the application of advanced mobile imaging technologies. This project involved a proof-of-concept field demonstration on two bridges: one over Assawoman Bay and another over St. Martin River.

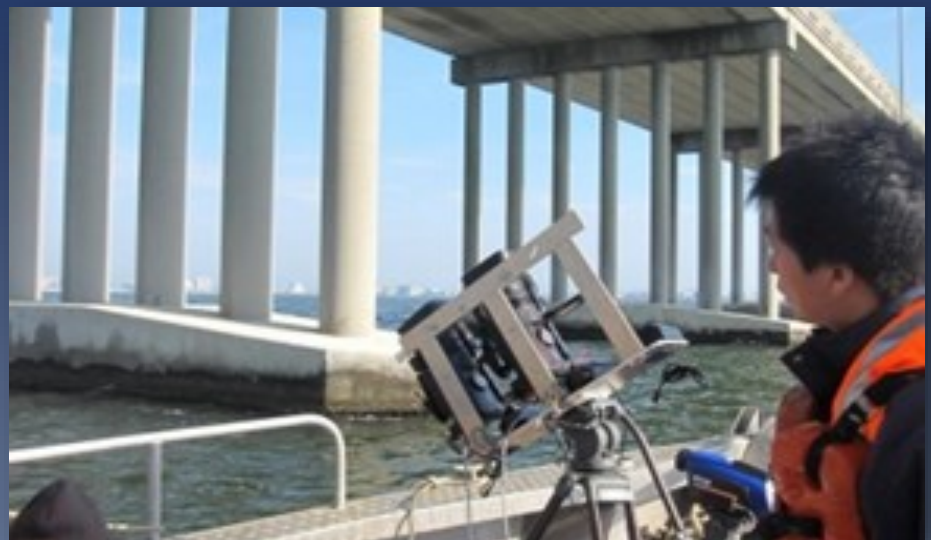
Both bridges featured a large amount of deficiencies, large surface areas to be inspected, many structural elements/divisions, and they spanned large bodies of water. Typically, hands-on inspections require extended use of snooper trucks and lane closures. NEXCO performed deck top scanning from a vehicle at highway speeds and boat-mounted scanning over the course of a few days. As a result, high-definition NDT data was obtained without any lane closure.

The final report demonstrated that the technologies used by NEXCO were efficient tools for condition assessment and monitoring of large structures over bodies of water. Continued use of the technologies can be applied to determine condition changes over time during future scans or hands-on inspections.



OVERVIEW

Client:	AECOM
Contact info:	Dr. Y. Edward Zhou (301-820-3539)
Quantity:	450,000 sqft
Project period:	Nov. 2012 - Jan. 2013



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