

Philadelphia District's Regional Center of Expertise (RCX) for Bridge Inspection and Evaluation provides the professional engineering expertise to conduct structural inspection, design and analysis for bridges and other structures as necessary to ensure the continued safety of infrastructure for the public. The District team has provided regional technical support since 1999 and the RCX was established in 2008.

Specific expertise includes:

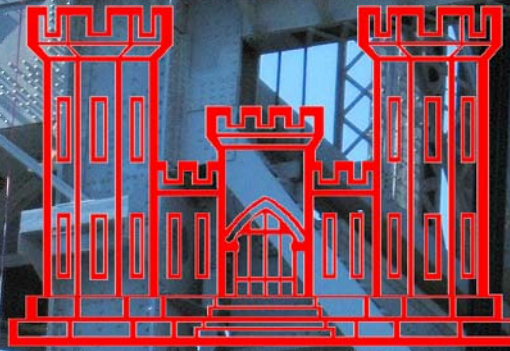
- * Fully capable and certified for bridge inspection and evaluation of short span and high level complex bridges.
- * 16 qualified bridge inspectors – 80 hour NBIS approved Safety Inspection course
- * Inspectors trained in fatigue and fracture, CEBIS management, scour evaluation, and load rating.
- * Nine SPRAT certified Level 1 rope access technicians. One certified Level II. Capable of accessing any area on a large structure.
- * Poficient with USACE, FHWA, AASHTO, NBIS regulations.

Mission areas supported includes:

- * Civil Works (Bridges and HSS)
- * Military
- * Support for Others

Customers include:

- * NAD, LRD, NWD, SPD, MVD, SAD, TAD, and SWD Divisions
- * Army, Navy, Air Force
- * USDOT, DOE



**U.S. Army Corps of Engineers
North Atlantic Division**

**REGIONAL CENTER of
EXPERTISE
for
BRIDGE INSPECTION AND
EVALUATION**

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**US Army Corps
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Inspection Access:

- * Access to structures is facilitated through the use of special equipment, rigging, or rope access.
- * CENAP owns a UB-60 under-bridge access vehicle and a man lift.



- * Rental vehicles are utilized on remote projects.
- * The RCX is capable to deploy the ten rope access technicians who are SPRAT Level 1 or II certified for technical climbing.

Fully Qualified Staff

- * 17 Structural Engineers (13 are Professional Engineers)
- * Nine SPRAT certified Rope Access Technicians
- * Two GS 14
USACE Bridge Safety SME
- * Four GS 13
Former DE State Engineer
USACE Load Rating
- * Seven GS 12
Extensive design, inspection and evaluation experience
- * Four GS 11
- * A/E—IDC with full bridge services capability



Project Experience

- * Philadelphia District owns and maintains five high level bridges and five short span bridges. The RCX is responsible for inspection, maintenance and repair of these bridges that were constructed from the 1940's through the 1970's. Nearly all engineering and inspection is conducted by in-house staff.



- * Inspected hundreds of bridges and Hydraulic Steel Structures (HSS) for others since 2000.
- * Conducted structural evaluations (load rating or other analysis), designs, and technical reviews for internal and external customers to include full design of several new bridges since 2000.
- * Four recent bridge designs for steel and concrete bridges.

