New Jersey Turnpike Authority

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October 1, 2020

TO ALL CONSULTANTS:

RE: New Jersey Turnpike Authority
Bridge Inspection Program
Qualifications of Key Bridge Inspection Personnel

Dear Consultant:

Following the consolidation of the New Jersey Turnpike Authority and New Jersey Highway Authority in July 2003, the New Jersey Turnpike Authority became responsible for the combined inventory of bridges and ancillary structures for two major toll roads, the New Jersey Turnpike and the Garden State Parkway. With the recent completion of major widenings and other capital improvement projects on both roadways, the New Jersey Turnpike Authority is currently responsible for the inspection and structural integrity of 1,118 routine and major bridge structures, as well as numerous ancillary structures. The Authority's ancillary structure inventory includes approximately 1,340 sign structures, 225 culverts, 120 noise barriers, 440 retaining walls, 23 antenna towers and 80 high mast light poles (HMLPs).

The above responsibilities are carried out by the New Jersey Turnpike Authority's Bridge Inspection Program, which was originally developed to comply with the federally mandated National Bridge Inspection Standards (NBIS) established in 1971. As described in the 23 Code of Federal Regulations (CFR) 650 Subpart C, NBIS specifies minimum qualifications for the individual in charge of the organizational unit and for individuals in charge of the inspection team. This document serves to summarize the following key personnel qualification requirements specifically for the New Jersey Turnpike Authority's Bridge Inspection Program:

GENERAL INSPECTION PERSONNEL REQUIREMENTS

The New Jersey Turnpike Authority requires that all **Project Managers, Team Leaders, and Assistant Team Leaders** who are proposed to work on New Jersey Turnpike and Garden State Parkway bridge and ancillary structure inspection assignments meet the following qualifications:

The **Project Manager** shall meet either of the following sets of qualifications:

1. Professional Engineer registered in the State of New Jersey with a minimum of 5 years of NBIS bridge inspection experience; and successful completion of National Highway Institute (NHI) Course No. 130053 - Bridge Inspection Refresher Training, NHI Course No. 130055 – Safety Inspection of In-Service Bridges, or NHI Course No. 130056 –

Safety Inspection of In-Service Bridges for Professional Engineers within 5 years prior to the proposed work.

OR

2. Graduate Civil Engineer (BSCE) with a minimum of 10 years of NBIS bridge inspection experience; and successful completion of NHI Course No. 130053 or NHI Course No. 130055 within 5 years prior to the proposed work.

Team Leader(s) shall meet either of the following sets of qualifications:

1. Professional Engineer registered in the State of New Jersey with a minimum of 3 years of NBIS bridge inspection experience; and successful completion of NHI Course No. 130053, NHI Course No. 130055, or NHI Course No. 130056 within 5 years prior to the proposed work.

OR

2. Graduate Civil Engineer (BSCE) with a minimum of 5 years of NBIS bridge inspection experience; and successful completion of 130053 or NHI Course No. 130055 within 5 years prior to the proposed work.

Assistant Team Leader(s), responsible for supporting Team Leaders with planning, preparing, and performing field inspection of a given structure, shall be knowledgeable of bridge components and able to perform independent inspections. They shall also meet either of the following sets of qualifications:

1. Graduate Engineer with a minimum of 3 years of NBIS bridge inspection experience.

OR

2. Graduate Engineer with successful completion of NHI Course No. 130053 or NHI Course No. 130055 within 5 years prior to the proposed work.

SPECIALTY INSPECTION PERSONNEL REQUIREMENTS

Key personnel performing specialty inspections of New Jersey Turnpike and Garden State Parkway structures shall, in addition to the requirements for Team Leaders listed above, meet the following qualifications:

Team Leader(s) performing Fracture Critical Member (FCM) Inspections shall have successfully completed NHI Course No. 130078 – Fracture Critical Inspection Techniques for Steel Bridges within 5 years prior to the proposed work.

Underwater Inspection Divers performing Underwater Bridge Inspections shall have successfully completed NHI Course No. 130091 – Underwater Bridge Inspection within 5 years prior to the proposed work.

Team Leader(s) performing Sign Structure and HMLP Inspections shall meet either of the following sets of qualifications:

1. Professional Engineer registered in the State of New Jersey with a minimum of 1 year of relevant inspection experience for the asset type requested; and successful completion of NHI Course No. 130087 – Inspection and Maintenance of Ancillary Highway Structures within 5 years prior to the proposed work.

OR

2. Graduate Civil Engineer (BSCE) with a minimum of 2 years of inspection experience for the asset type requested; and successful completion of NHI Course No. 130087 – Inspection and Maintenance of Ancillary Highway Structures within 5 years prior to the proposed work.

Assistant Team Leader(s) performing Sign Structure and HMLP Inspections shall have successfully completed NHI Course No. 130087 – Inspection and Maintenance of Ancillary Highway Structures within 5 years prior to the proposed work and have a minimum of 1 year of relevant experience for the asset type requested.

QUALITY CONTROL AND LOAD RATING PERSONNEL REQUIREMENTS

The following additional key personnel shall meet the qualifications listed for each role:

The **Quality Control Engineer** is responsible for performing detailed reviews of all work products, such as field work and submitted inspection reports, and shall meet either of the following sets of qualifications:

1. Professional Engineer registered in the State of New Jersey with a minimum of 5 years of NBIS bridge inspection experience; and successful completion of NHI Course No. 130053, NHI Course No. 130055, or NHI Course No. 130056 within 5 years prior to the proposed work.

OR

2. Graduate Civil Engineer (BSCE) with a minimum of 10 years of NBIS bridge inspection experience; and successful completion of NHI Course No. 130053 or NHI Course No. 130055 within 5 years prior to the proposed work.

The **Load Rating Engineer** is responsible for performing bridge load ratings, and the **Load Rating Reviewer** is responsible for supervising bridge load ratings, including performing detailed reviews of all work, and signing and sealing the load rating summary sheets. Both shall meet all qualifications listed in the NJTA Load Rating Manual which can be accessed from the following link: https://www.njta.com/doing-business/njta-bridge-inspect-program.

The above key personnel requirements shall apply on a prospective basis.

The above referenced NHI Courses are regularly hosted by the New Jersey Department of Transportation in Trenton, New Jersey, as well as by other regional agencies and consulting engineering firms. Specific information regarding NHI course dates, locations and registration may be obtained from the National Highway Institute at www.nhi.fhwa.dot.gov.

Please be advised that consultants and subconsultants proposing key personnel without the necessary qualifications will not be considered for New Jersey Turnpike Authority's Bridge

Inspection Program. In addition, consultants and subconsultants performing bridge inspection work over active railroad lines (NJ Transit, Amtrak, Conrail, CSX, Norfolk Southern, Shared Assets, etc.) shall have their key personnel complete safety training as required by the respective outside agency.

Should you have any questions on the above bridge inspection key personnel qualification requirements, please contact Jean H. Laird, P.E., Senior Project Engineer, Structures Design, at (732) 750-5300, Extension 8236.

Very truly yours,

ORIGINAL SIGNED BY:

Robert J. Fischer, P.E.
Chief Engineer

RJF:JHL:ms

cc: J. L. Williams
W. Wilson
J. H. Laird
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