

SECTION 1 – INTRODUCTION

TABLE OF CONTENTS

1.4—QUALITY MEASURES 1

1.4—QUALITY MEASURES

The following shall supplement *AI.4*.

The Policy for Quality Control and Quality Assurance in Part I, Chapter 3 and additional requirements in this Section shall be followed when performing bridge rating, posting, and evaluation calculations. At the discretion of LADOTD, additional peer review may be required for complex projects.

The bridge rating engineers are defined as follows:

Rater: Must be a Professional Engineer or Engineer Intern.

Checker: Must be a Professional Engineer or Engineer Intern with at least one year of experience in bridge rating. When the Rater is an Engineer Intern, the Checker must be a Professional Engineer.

Reviewer: Must be a Professional Engineer with at least two years of experience in bridge rating.

The NHI LRFR training course FHWA-NHI-130092 is recommended for the load rating engineers.

The following steps shall be followed to perform QC/QA of load rating/posting calculations and reports:

Step 1: All calculations and reports shall be prepared by an engineer (Rater) and checked by another engineer (Checker) to complete the quality control process.

Step 2: A Reviewer shall perform a cursory review as part of the quality assurance for the work done in Step 1.

Step 3: The initials of the Rater, the Checker, and the Reviewer shall be placed on the Bridge Load Rating Summary Sheet. The summary sheet

C1.4

The following shall supplement *AC1.4*.

Definitions of QC/QA:

Quality Control (QC): Procedures for maintaining the consistency and checking the accuracy of the rating calculations, detecting and correcting any omissions and errors before the rating report is finalized. Furthermore, quality control consists of procedures for ensuring that the management of the bridge inventory ratings meets LADOTD policies and FHWA requirements.

Quality Assurance (QA): Procedures for reviewing the work to ensure the quality controls that are in place are effective in producing a quality product that meets LADOTD policies and FHWA requirements.

shall be stamped by a professional civil engineer licensed in the state of Louisiana who must be the Rater, the Checker, or the Reviewer.

Exceptions must be approved by the LADOTD Load Rating Engineer.

Refer to Section 6.1.9 for additional QC/QA measures on documentation of load rating.

Refer to Section 6.1 and Part I, Chapter 3, Section 3.5 for software requirements.

The accuracy of computer programs used in bridge rating must be confirmed by LADOTD before they are used.