

ABSTRACT

Chou, Raymond. M.S.C.E., Purdue University, December 2013. Review of Load Rating and Posting Procedures and Requirements. Major Professor: Mark Bowman.

All states are required to load rate and post bridges in order to comply with federal standards. Load ratings are performed in order to determine the safe live load capacity of a bridge, considering the existing conditions of the bridge. Based on the load ratings, the bridge is evaluated for load posting or strengthening. The Indiana Department of Transportation (INDOT) was notified that their practice for load rating and posting did not satisfy 23 CFR 650.313. The purpose of this study was to summarize and compare load rating and posting procedures used in other states and to provide recommendations and information necessary to modify the load rating and posting procedures in Part 3: Load Rating of INDOT's *Bridge Inspection Manual* (2010) in order to satisfy 23 CFR 650.313.