

PENNDOT e-Notification



Bureau of Information Systems
Application Development Division

BAR7

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Release of Version 7.11

PENNDOT's Bridge Analysis and Rating (BAR7) program has been revised as described below.

1. Incorporates PENNDOT's Continuous Beam Analysis (CBA) program as a library and uses it as an analysis engine for BAR7. This yields slightly different but more accurate results of BAR7 because:
 - CBA uses centroid instead of midpoint of M/EI trapezoidal loading .
 - CBA uses 20th points instead of 10th points for an analysis of a girder.
 - CBA uses a couple of new load positions for the vehicle placement over the influence line.
2. Incorporates PENNDOT's Beam Section Properties (BSP) program as a library so that section properties calculated and used in BAR7 are consistent with other PENNDOT programs.
3. Incorporates the following corrections that were included in BAR7 v7.10a:
 - Correction to the input edit check for the HINGE AT location that is not on a support.
 - Correction for error with the rating of positive moment composite sections such that b'/t limit is not used.
 - Eliminate the NaN error for some truss member forces.
4. Compiled under Compaq Visual Fortran using separate files for subroutines and COMMON blocks as INCLUDE statements. This does not affect the results.

Consultants and others, who have a current license for BAR7 Version 7.10 or 7.10a, can download version 7.11 free of charge from the Internet at <http://penndot.engrprograms.com>. Installation instructions are provided at the website.

Direct any questions concerning the above to:

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