

PENNDOT e-Notification

Bureau of Information Systems
Application Development Division



BPLRFD

No. 002
November 19, 2007

Release of BPLRFD Version 1.4.0.0

PENNDOT's LRFD Bearing Pad Design and Analysis (BPLRFD) program has been revised as described on the attached "Summary of September 2007 Revisions – Version 1.4.0.0".

The new version has been placed on PENNDOT servers for use by the Districts. Consultants and others, who have a current license agreement for BPLRFD Version 1.3.0.0, can obtain the updated version by submitting a Software Update Request form with the appropriate update fee. Updates for **BPLRFD Version 1.3.0.0** require an **update fee of \$300** (\$50 for governmental agencies and educational institutions). Updates for **BPLRFD Version 1.2 or earlier** require an **update fee of \$600** (\$100 for governmental agencies and educational institutions).

The Software Update Request form can be obtained on the PENNDOT Engineering Software Support website at <http://penndot.engrprograms.com> by clicking on "Ordering/Updating" and, then, "Update Form".

Please direct any questions concerning the above to:

Robert F. Yashinsky, P.E.

*PENNDOT Bureau of Information Systems
Application Development Division*

Phone: (717)787-8407 | Fax: (717) 705-5529

e-mail: ryashinsky@state.pa.us

Archived copies of all previously distributed e-Notifications can be obtained from the PENNDOT LRFD and Engineering Programs website at <http://penndot.engrprograms.com/home> and clicking on "e-Notification" and then "Mailing List Archives."

SUMMARY OF SEPTEMBER 2007 REVISIONS - VERSION 1.4.0.0

Since the release of BPLRFD Version 1.3.0.0 several revision requests and user requested enhancements have been received. This release of BPLRFD Version 1.4.0.0 contains the following revisions and enhancements.

General Program Revisions

1. A new structure type for prestressed bulb-tee beams has been added to permit the program to handle larger allowable edge distances. Previously the input for a prestressed bulb-tee beam had to be entered using the prestressed I-beam structure type which used a smaller allowable edge distance which cause an inability to find a valid pad design (Request 055).
2. This request has been investigated and it has been found that no changes are required to the program or User's Manual since DM-4 has returned to using 100 deg for the maximum allowable temperature range on the EXP command. (Note: Do not include this request on final version of program) (Request 019).

Input Revisions

3. The rotation parameters on the TOL command have been modified to issue a warning when a value is entered larger than the upper limit. Previously the program would stop with an error if the upper limit was exceeded (Request 043, 054).
4. The program has been revised to allow more than 256 characters on an input command line (Request 044).

User Manual Revisions

5. The User's Manual was modified to indicate when out of plane rotation values can be entered on the LLR command "Live Load Rotation About Longitudinal Axis of Pad" parameter (Request 048).
6. A typographical error has been corrected in reference to DM-4 in Section 6.6.5 of the User's Manual (Request 051).
7. A typographical error has been corrected in reference to DM-4 in Section 3.1 of the User's Manual (Request 056).
8. Typographical errors have been corrected in the Summary of Revisions for version 1.2 and in Section 3.9 of the User's Manual (Request 057).

Engineering Assistant Revisions

9. The superstructure type field on the CTL command in EngAsst has been revised so the Steel I-beam type is number 4 (Request 045).