

PennDOT e-Notification

Bureau of Business Solutions and Services
Highway/Engineering Applications Division



BPLRFD

No. 004
March 25, 2013

Release of Version 1.6.0.0

The Department's LRFD Bearing Pad Design and Analysis (BPLRFD) program has been revised as described in the attached "Summary of January 2013 Revisions – Version 1.6.0.0".

The new program has been placed on PENNDOT servers for use by the Districts. Consultants and others, who have a current license agreement for **BPLRFD Version 1.5.0.0**, can obtain the updated version by submitting an Update Request form along with the **update fee of \$200 for private organizations and \$50 for governmental agencies**. Updates for **BPLRFD Version 1.4.0.0 or earlier** will require an **additional fee**. For BPLRFD update fee details, refer to the following link: <http://penndot.engrprograms.com/home/Ordering/BPLRFD.htm>. The update fee is waived for federal and state transportation agencies.

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 on "Update Form".

Please direct any questions concerning the above to:

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Attachment

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 JANUARY 2013 REVISIONS - VERSION 1.6.0.0

Since the release of BPLRFD Version 1.5.0.0 several revision requests and user requested enhancements have been received. This release of BPLRFD Version 1.6.0.0 contains the following revisions and enhancements.

General Program Revisions

1. The program has been revised to include the Method B anchorage check for laminated bearing pads for expansion bearings. This check is done in addition to the existing Method A anchorage check. (Requests 076, 083)
2. The program has been revised to now indicate when a hole is not required in the output when a hole diameter is entered by the user. Previously, when a hole was not required, there was no message in the output confirming a hole was not required. (Request 080)

Input Revisions

3. The Minimum Live Load Reaction parameter on the LRX command has been revised to only be required for Continuous Spans. For Simple Spans the program will now automatically compute one-half the Maximum Live Load Reaction for this input parameter as per DM-4 14.7.6.4. Previously, the Minimum Live Load Reaction was required to be entered for Simple Spans. (Request 081)

Parameter File Revisions

4. The Maximum Pad Thickness has been increased to 8 inches. (Request 078)
5. The maximum compressive stress for steel reinforced elastomeric pads has been increased to 1.25 ksi. (Request 079)

Program Source Revisions

6. The BPLRFD program has been updated to the Intel Fortran Composer XE 2011 Compiler. (Request 073)

User's Manual Revisions

7. A typographical error in Section 3.14 of the Users Manual has been corrected. (Request 074)
8. The Compressive strain section of the UM has been updated to now indicate that the program utilizes coefficients for calculating compressive strain. (Request 077)