

# PennDOT e-Notification

Bureau of Business Solutions and Services  
Highway/Engineering Applications Division



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## BPLRFD

No. 005  
June 15, 2015

## Release of Version 1.7.0.0

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The Department's LRFD Bearing Pad Design and Analysis (BPLRFD) program has been revised as described in the attached "Summary of April 2015 Revisions – Version 1.7.0.0".

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 1.6.0.0**, can obtain the updated version by submitting an Update Request form along with the **update fee of \$100 for private organizations and \$50 for governmental agencies**. Updates for **BPLRFD Version 1.5.0.0 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 note that the software will no longer be provided on a CD. Once payment is received, an e-mail will be sent with download instructions. The new installation will require a License Key that will be provided in the e-mail. A valid e-mail address must be provided on the Update Form in order to receive the download instructions.**

Please direct any questions concerning the above to:

**Robert F. Yashinsky, P.E.**

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Attachment

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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 APRIL 2015 REVISIONS - VERSION 1.7.0.0**

Since the release of BPLRFD Version 1.6.0.0 several revision requests and user requested enhancements have been received. This release of BPLRFD Version 1.7.0.0 contains the following revisions and enhancements.

### **General Program Revisions**

1. The method of calling the engineering program DLL from the Engineering Assistant has been changed for compatibility with EngAsst v2.5.0.0 which uses Microsoft's .NET Framework, version 4.5. Because of this, BPLRFD will no longer work with EngAsst v2.4.0.6 or v2.4.0.9 unless the EngAsst "Edit / Run EXE – Command Window" option is selected. BPLRFD will no longer work with EngAsst v2.4.0.0 and earlier. (Request 088)
2. The BPLRFD program has been updated to compile with Intel Fortran XE 2013 SP1 Update 4 using Visual Studio 2012 Update 4. (Request 85)

### **Input Revisions**

3. The upper limit and the default for the Maximum Pad Length parameter on the GEO command has been increased to 24 inches. Previously, the Maximum Pad Length was limited to 20 inches. (Request 087)

### **Output Revisions**

4. The page layout of the output file has been enhanced to allow for more characters per page width and more lines per page in the PDF output file. The new layout has 91 characters per page width and 74 lines per page. (Request 092)

### **Program Source Revisions**

5. The program has been revised to no longer apply the beta factor to plain bearing pads for the Method A design approach in accordance with the 2012 PennDOT Design Manual 4 and the 2010 AASHTO Bridge Design Specifications. (Request 091)
6. The program has been revised to summarize the Method A and Method B anchorage check results in the Recommended Pad Size output table for Design runs, and in the Inputted Pad Size table for Analysis runs. When either the Method A or Method B anchorage check fails a Chief Bridge Engineer warning is now printed indicating that a restraint system is required. Previously, the output could sometimes erroneously indicate that a restraint system was not required even though Method A anchorage was not satisfied. (Request 094)

## **Engineering Assistant Revisions**

7. The Engineering Assistant field help has been updated to show complete information from Chapters 5 and 6 of the BPLRFD Users Manual. (Request 082)