

PennDOT e-Notification

Bureau of Business Solutions and Services
Highway/Engineering Applications Division



SPLRFD

No. 005
August 20, 2014

Release of Version 1.5.0.0

The Department's LRF Steel Girder Splice Design and Analysis (SPLRFD) program has been revised as described in the attached "Summary of May 2014 Revisions – Version 1.5.0.0".

The new program has been placed on PennDOT servers for use by the Districts. Consultants and others, who have a current license agreement for **SPLRFD Version 1.4.0.0**, can obtain the updated version by submitting an Update Request form along with the **update fee of \$300 for private organizations and \$50 for governmental agencies**. Updates for **SPLRFD Version 1.3.0.0 or earlier** will require an **additional fee**. For SPLRFD update fee details, refer to the following link: <http://penndot.engrprograms.com/home/Ordering/SPLRFD.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".

NOTE: SPLRFD v1.5.0.0 is not compatible with Windows XP.

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:

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Attachment

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

SUMMARY OF MAY 2014 REVISIONS - VERSION 1.5.0.0

Since the release of SPLRFD Version 1.4.0.0, several revision requests and user requested enhancements have been received. This release of SPLRFD Version 1.5.0.0 contains the following revisions and enhancements.

Program Source 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, SPLRFD 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. SPLRFD will no longer work with EngAsst v2.4.0.0 and earlier. (Request 116)**
2. The SPLRFD program has been updated to compile with Intel Fortran XE 2013 SP1 Update 1 using Visual Studio 2012 Update 4. (Request 107)

General Revisions

3. The program has been revised to perform block shear calculations. Previously, the program would perform block shear checks and indicate if the user would have to further investigate block shear. (Request 079)

Input Revisions

4. The input check to ensure the minimum number of bolts with the minimum bolt pitch will fit within a web splice depth has been revised to only apply to design runs. Previously, the check was also being performed on both design and analysis runs which could lead to problems for analysis runs web splices where the web bolt pitch varies. (Request 108)
5. An input check has been added to prevent the design of staggered flange bolts and plates. Previously, the user was able to erroneously select the option for the design of staggered flange bolts and plates. (Request 113)

Output Revisions

6. The program has been revised to show all relevant Strength and Service Limit States for Splice Bolt Specification Checks for Flanges relating to Bearing on Material, Shear Strength and Slip Resistance. (Request 076)
7. The program has been revised to apply a reduction of shear strength for bolts when connections exceed 50 inches in length for flanges. This change applies to both analysis and design runs. Previously, the program would only apply the shear strength reduction for applicable web bolts. (Request 090)