18 July 2018

FTA FCGR Release Notes

v3.18.01

Test Setup

- ▲ Added ASTM E647 compliance solution for M(T) specimen
- ▲ PD switching defaults to Count Based High Frequency on initialization
- ▲ Improved folder handling so software maintains folder path when loading files from different locations
- ▲ User cannot select K-control without a crack length; software will warn if initial *a* differs from current *a* by more than the greater of 0.005" or 2.5%
- ▲ Improved Lead-Lag controls on Load-Displacement form to immediately refresh and to show greater precision of the offset
- ▲ Improved logo/icon appearance in software
- ▲ The software prompts for a new log file after changing Test ID
- ▲ Added error handling to mitigate crashes when changing Test ID
- ▲ Improved default layout when forms open
- ▲ Improved error handling on startup if software cannot connect to ADwin
- ▲ Enlarged status screens
- ▲ Code prevents multiple instances of FCGR being opened simultaneously
- ▲ Sample files and ADwin files are now stored in their own subfolders
- ▲ Added warning when immediate compliance, DCPD or K are outside the mathematical limits of the solution, instead of just displaying zero
- ▲ Fixed display of DCPD numbers (can now display up to 99999.9 uV)
- ▲ Sets Matrix Active Index to 1 as points are added (prevents test accidentally being run without Matrix active)
- ▲ Fixed erroneous tooltips

Test Execution

- ▲ Changed 'Elapse Time' to read 'Elapsed Time'
- ▲ Fixed crashes when opening Load-Scan
- ▲ Corrected surface crack K-coefficient (less than 1% error)

Analysis

- ▲ Added analysis for ASTM E647 M(T) compliance solution (invoked if < 3 coefficients are entered for compliance on an M(T) specimen)
- ▲ Added validity criteria for corner crack specimen
- ▲ Auto enable crack length corrections when correction values are added
- ▲ Corrected formatting of 'Skip' variable
- ▲ Corrected surface flaw coefficient
- ▲ Fixed bug where K lookup table could not be opened after loading a file
- ▲ Improved load routines to be more reliable and not crash when loading corrupt files

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