

## AFGROW Workshop 2021

# AFGROW Future Development

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# Workshop 2020 To Do List (Incomplete)

Scale: 10 most important

- Bearing solution for corner crack(s) at a countersunk hole (9)
- Recommend 3 c/s depths (Borje)
- Add Predict Preferences to Status View (8.5)
- Make changes to allow the use of spectra with three load channels (7)
- Add a stiffened panel solution? (2) Bulging factors?
- Investigate a 3-D integration method for beta correction (2)
- Integrate Cycle Counter into Spectrum Manager (6)
- Ability to read uncounted data in the Spectrum Manager (6)
- Ability to use beta correction with a weight function solution (5)
- Incorporate Effective width in the bearing beta calculation (5) (Add check box to update bearing load case width)
- Validate a filled hole correction for part-through cracks (10)
- Add new version of Fastran to AFGROW (Need to find \$)
- Implement the Morrow mean stress equation in the AFGROW initiation module (TBD )
- User Defined Mean Stress Correction (TBD )

# Spectrum Manager Future Development Plans

- Spectrum Cycle Counting (Rain Flow ASTM E1049 and Range Pair) User Discretion (own risk) (7)
- Working with counted and uncounted spectra (6)
- Improved Undo/Redo (6)
- Spectrum Severity Comparison (2) Move to AFGROW Task List
- Combining exceedance curves (4) (Different maneuvers, gust, etc. into a larger spectrum)

# Additional

- Create a white paper showing how to use Spectrum and K Filtering capability with A-10 information for a wing and fuselage