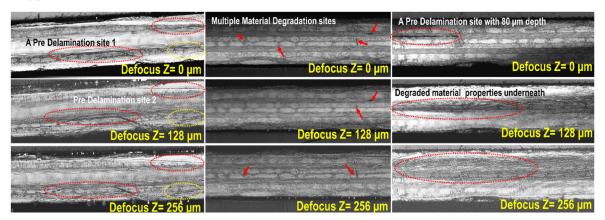
## **Supplementary Materials**



**Figure S1.** Scanning Acoustic Microscopy (SAM) images from the decommissioned specimen S-A after 300,000 cycles of fatigue loading to show the precursor damages have actually initiated in the specimen.