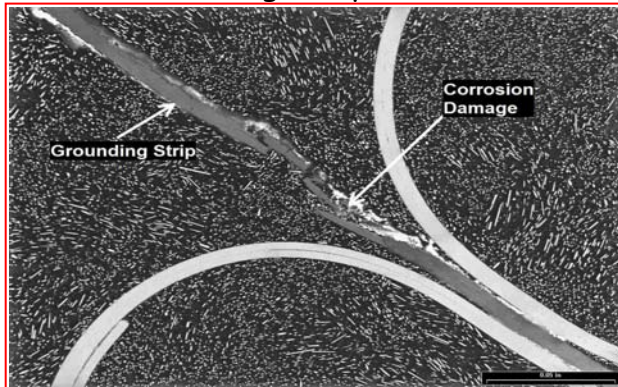


METALLURGICAL LABORATORY

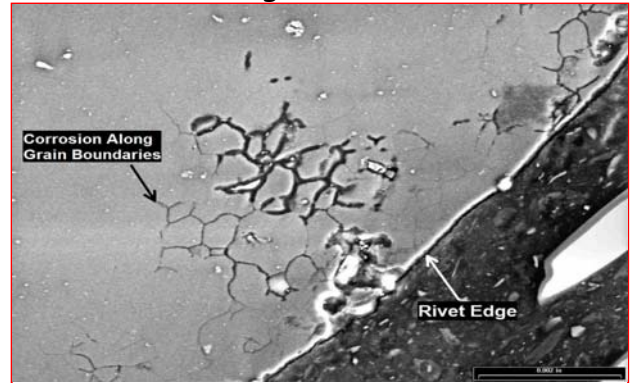
FAILURE ANALYSIS CASE STUDY

Description	Repair strategies for aircraft antenna grounding structure
Problem	Aircraft antenna grounding structure showed external corrosion
Analysis	Incorrect alloy selection caused exfoliation corrosion damage. Externally visible corrosion was accompanied by deep damage, precluding practical repairs.
Resolution & Recommendations	Change alloy from 2024 to 6061 to prevent exfoliation corrosion damage

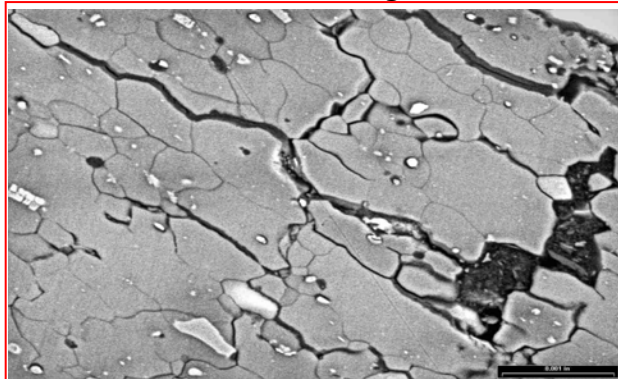
2024 Al Grounding Strip Cross Section



2024 Al Rivet Edge Corrosion



2024 Al Exfoliation Damage



6061 Insert W/O Corrosion Damage

