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Opportunity, Wichita State University, 1845 Fairmount, Wichita KS 67260-0001; telephone (316)978-302.
**Aging Aircraft Lab**

**Focus Areas**
- Engineering evaluation of aircraft structures and systems
- Damage tolerance assessments of aircraft metallic structures
- Investigation of corrosion and corrosion-fatigue effects on aging aircraft metallic structures
- Nondestructive inspection techniques and methods for structures
- Metallic and composite repairs for aircraft metallic structures
- Survey of aircraft service usage and maintenance history
- Development and update of service life extension programs for specific types of aircrafts

**Projects**
- KC-135 teardown analysis program
- C-5A aft fuselage panel and aft crown testing, inspection and analysis
- F-16A STA teardown examination
- A-10 BHEC specimen generation
- B-52 landing gear and flight control teardown and inspection
- FAA Metallurgical/ Fractographic Evaluation of Structural Components

**Full-Scale Structural Test Lab**

**Focus Areas**
- Full-scale and component testing (static, durability and damage tolerance)
- Pressure cyclic testing
- Hail strike testing
- Material testing

**Capabilities**
- Test load development from supplied aircraft loads
- Test fixture design and fabrication
- Load system design and fabrication
- Strain gage and miscellaneous transducer installation
- Data and load control system development and installation
- Testing services and data handling

**Projects**
- Liberty Aerospace XL2 Fuselage DDT
- Hawker Beechcraft Corporation: T-6A nose gear spring strut test Model 4000 (FT-689)
- T-6A inboard gear door testing
- Big Crow (KC-135) aircraft seats
- Spirit/Gulfstream G650 Flap Testing and Inspection
- Hawker Horizon Model 4000 Fuselage and Empennage DADT
- Boeing 787 Center Bridge

Through an innovative arrangement with an aircraft manufacturer, NIAR has established the first national center to provide full-scale testing services along with investigative capabilities in aircraft airworthiness issues for the aviation industry and government agencies.