

**NONDESTRUCTIVE INSPECTION**

**(C-130)**

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1. **Objective.** As prescribed in AFI 38-208, *Determining Manpower Requirements*, this Air National Guard manpower standard (ANGMS) quantifies the full-time manpower required to accomplish the tasks described in the work center description.
  2. **Authority.** The AFI 21-series of Air Force (AF) and/or Air National Guard (ANG) directives contain US Air Force and Command policy and procedural guidance for the Nondestructive Inspection work center. This manpower standard was developed using the functional review process under procedures outlined in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.
  3. **Applicability.** This standard applies to all Air National Guard airlift units except the 123rd Airlift Wing; the 109th, 139th, and the 189th Airlift Groups; the 106th, 129th, and 210th Rescue Groups; the 176th Composite Group; and the 193rd Special Operations Group. This standard only applies to peacetime operations.
  4. **Standard Data:**
    - a. **Classification.** Type III.
    - b. **Approval Date.** 9 July 1992.
    - c. **Manpower Data Source.** Staffing Pattern.
    - d. **Standard Manpower Equation.**  $Y = 2$  (Constant Manpower).
    - e. **Workload Factor.** Not applicable.
  5. **Application Instructions.** This work center requires constant manpower of two authorizations. No other application instructions apply.
  6. **Statement of Conditions.** There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.

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Major General, USAF  
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**OFFICIAL**

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Chief  
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**2 Attachments  
1. Work Center Description  
2. Standard Manpower Table**

**WORK CENTER DESCRIPTION****Nondestructive Inspection  
(C-130)****DIRECT:**

**1. MAGNETIC PARTICLE INSPECTION.** Prepares for work, performs pre-inspection to determine method suitability, performs inspection, and completes documentation.

**1.1. PERFORMS IN-SHOP DIRECT CURRENT AND ALTERNATING CURRENT INSPECTION.**

**1.2. PERFORMS OUT-OF-SHOP DIRECT CURRENT AND ALTERNATING CURRENT INSPECTION.**

**2. ELECTROMAGNETIC INSPECTION.** Prepares for work, performs pre-inspection to determine method suitability, performs inspection, and completes documentation.

**2.1. PERFORMS IN-SHOP EDDY CURRENT INSPECTION.**

**2.2. PERFORMS OUT-OF-SHOP EDDY CURRENT INSPECTION.**

**2.3. PERFORMS IN-SHOP CONDUCTIVITY INSPECTION.**

**2.4. PERFORMS OUT-OF-SHOP CONDUCTIVITY INSPECTION.**

**3. PENETRATING RADIATION (X-RAY) INSPECTION:**

**3.1. PERFORMS IN-SHOP X-RAY INSPECTION.** Prepares for work, performs pre-inspection, performs X-Ray safety inspection, and completes documentation.

**3.2. PERFORMS OUT-OF-SHOP X-RAY INSPECTION.** Prepares for work, performs pre-inspection, performs X-Ray safety inspection, and completes documentation.

**3.3. ENSURES RADIATION SAFETY PROGRAM IS ENFORCED.** Inspects X-Ray facility for serviceability and possible radiation exposure. Documents results of X-Ray equipment, safety device, and X-Ray facility inspection on ledger or general purpose form.

**4. OPTICAL INSPECTION.** Prepares for work, performs pre-inspection, performs inspection, and completes documentation.

**5. FLUORESCENT DYE PENETRANT INSPECTION.** Prepares for work, performs pre-inspection, performs inspection, and completes documentation.

**5.1. PERFORMS IN-SHOP FLUORESCENT DYE PENETRANT INSPECTION.**

**5.2. PERFORMS OUT-OF-SHOP FLUORESCENT DYE PENETRANT INSPECTION.**

**6. ULTRASONIC INSPECTION.** Prepares for work, performs pre-inspection, performs inspection, and completes documentation.

**6.1. PERFORMS IN-SHOP ULTRASONIC INSPECTION.**

**6.2. PERFORMS OUT-OF-SHOP ULTRASONIC INSPECTION.**

**7. WELDING CERTIFICATION.** Performs radiographic, acid etching, bend testing, and visual inspection required to certify unit welders.

**8. UNIT TRAINING ASSEMBLY (UTA), MOBILITY REQUIREMENT, AND BATTLE DAMAGE PROGRAM.** Performs planning and scheduling tasks associated with preparation for UTA workload, mobility requirement, and Battle Damage Program.

**9. HARMONIC BOND INSPECTION.** Prepares for work, performs pre-inspection, performs inspection, and completes documentation.

**9.1. PERFORMS IN-SHOP HARMONIC BOND INSPECTION.**

**9.2. PERFORMS OUT-OF-SHOP HARMONIC BOND INSPECTION.**

**INDIRECT:** Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE									
WORK CENTER/FAC				APPLICABILITY MAN-HOUR RANGE					
Nondestructive Inspection/23170B				Constant Manpower					
AIR FORCE SPECIALTY TITLE	AFSC	GRADE							
Nondestructive Inspection	458X1	Civ	2						
TOTAL			2						
AIR FORCE SPECIALTY TITLE	AFSC	GRADE							
TOTAL									