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AIRCRAFT TIRE CHANGE PROCEDURE
ATA Chapter 32 - Landing Gear

SECTION 1: TOOLS REQUIRED
- Hydraulic Jack (50-ton capacity)
- Torque Wrench (0-500 ft-lbs)
- Tire Pressure Gauge
- Safety Chocks

SECTION 2: SAFETY WARNINGS
⚠ DANGER: Always engage parking brake before jacking aircraft.
⚠ WARNING: Do not exceed 150 PSI tire pressure.
⚠ CAUTION: Ensure aircraft is on level ground before jacking.

SECTION 3: PROCEDURE
Step 1: Position safety chocks around main wheels.
Step 2: Engage parking brake and ensure hydraulic pressure is zero.
Step 3: Position hydraulic jack under jacking point (Ref: MM 32-12-00).
Step 4: Lift aircraft until tire clears ground (6 inches minimum).
Step 5: Remove wheel nuts using torque wrench in star pattern.
Step 6: Remove tire assembly and inspect brake components.
Step 7: Install new tire assembly.
Step 8: Torque wheel nuts to specification in star pattern.
Step 9: Lower aircraft and remove jack.
Step 10: Perform post-installation checks.

SECTION 4: TORQUE SPECIFICATIONS
Wheel Nut Torque: 450 ft-lbs ± 25 ft-lbs
Valve Stem Torque: 60 in-lbs
Axle Nut Torque: 800 ft-lbs

SECTION 5: PART NUMBERS
Main Wheel Assembly: NAS1149F0363P
Tire: GOODYEAR-G159-4PR
Valve Stem: MS28889-2
Hydraulic Jack: SKF-HJ50T
Torque Wrench: SNAP-ON-QJR3200F

SECTION 6: POST-INSTALLATION CHECKS
- Verify all wheel nuts are torqued to specification
- Check tire pressure (120 PSI nominal)
- Inspect for proper wheel alignment
- Verify brake function
- Document all work in aircraft maintenance log
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