

# BAC5617

REVISION  
W  
HEAT TREATMENT OF ALLOY STEELS  
4/3/2019



THIS SPECIFICATION ESTABLISHES REQUIREMENTS FOR HEAT TREATMENT OF CARBON AND ALLOY STEELS.

<u>BAC 5617 DEPARTURES</u>	<u>EFF DATE</u>	<u>SUBCONTRACTOR(S) AFFECTED</u>	<u>ON MODELS</u>	<u>MFG DEPTS OF DIV BELOW AFFECTED</u>	<u>REASON</u>
8-19	12/13/2007	ALL	CH-47	NONE	TO APPROVE THE USE OF HIGH PRESSURE GAS QUENCHING.
8-21	3/27/2014	OLYMPIC TOOL AND MACHINE COMPANY	CH-47 ONLY	NONE	PROVIDE ALLOWANCE FOR DEVIATIONS TO TABLE IX HEAT TREAT SIZE LIMITATIONS FOR 4130 STEEL TUBE COMPONENTS.
8-22	4/12/2018	ALL	ALL	BOEING HELICOPTERS AND SUPPORTING	TO ADAPT THE LATEST REVISION OF BAC5617 FOR USE AT BOEING HELICOPTERS. UPDATE DEPARTURE BASED ON BAC5617 REVISION V CHANGES.
8-23	4/12/2018	AGUSTAWESTLAND	ICH-47F	NONE	TO ADD CONOCOPHILLIPS HYDROCLEAR QUENCE OIL 22 AS AN APPROVED QUENCING OIL.
9-12	4/12/2018	ALL	ALL BDS AND SUPPORTING	ALL BDS AN SUPPORTING	REVISED SECTION SIZE AND TEMPERATURE LIMITES FOR 4130 AND 8630.
9-14	4/12/2018	NORTHSTAR	494	ALL BDS AN SUPPORTING	MAKE DEPARTURE 8-17 APPLICABLE TO 494 AMAD.S-5805. UPDATE DEPARTURE BASED ON BAC5617 REVISION V CHANGES.
9-13	4/12/2018	ALL	494	ALL BDS AN SUPPORTING	ADDRESS ESSENTIAL REQUIREMENT 5PTPDT01. CLARIFICATION OF REQUIREMENTS. ADD TO MFG BLOCK. S-4450. UPDATE DEPARTURE BASED ON BAC5617 REVISION V CHANGES.
6-91	9/24/2018	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCA AND SUPPORTING	TO CLARIFY HEAT TREAT REQUIREMENTS FOR RAW MATERIALS AND CORRECT TYPO IN SECTION 8.6.3.5
DCNPSO_007636_01	4/3/2019	N/A	N/A	N/A	Reason:Current revision dictates the use of a D1-4426 approved source for heat treating tensile test coupons from the prolongations required for lot release and the first article tensile coupons.  This revision will allow test laboratories to do the heat treat of coupons for testing purposes. The test laboratories are able to heat treat the specimens to the parameters of the specification and prove capability of the forgings without the quench tank restrictions dictated by BAC5617.