

BAC5616

REVISION
J
3/10/1993

HEAT TREATMENT OF NICKEL-BASE
AND COBALT-BASE ALLOYS



<u>BAC 5616 DEPARTURES</u>	<u>EFF DATE</u>	<u>SUBCONTRACTOR(S) AFFECTED</u>	<u>ON MODELS</u>	<u>MFG DEPTS OF DIV BELOW AFFECTED</u>
6-23	4/2/1997	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	BCAG AND SUPPORTING
6-24	2/11/1999	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	BCAG AND SUPPORTING
6-25	3/31/1999	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	BCAG AND SUPPORTING
6-26	1/19/2004	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	BCAG AND SUPPORTING
6-27	10/13/2004	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	BOEING PORTLAND
6-29	3/3/2014	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCA AND SUPPORTING
6-30	9/12/2016	ALL	ALL COMMERCIAL AIRPLANES AND DERIVATIVES THEREOF	ALL BCA AND SUPPORTING
9-1	12/16/1994	ALL	ALL BOEING DEFENSE AND SPACE GROUP	BOEING DEFENSE AND SPACE GROUP AND SUPPORTING

THIS SPECIFICATION ESTABLISHES THE REQUIREMENTS FOR THE HEAT TREATMENT OF NICKEL-BASE AND COBALT-BASE ALLOYS.

REASON

TO ADD OPTION TO USE BAC5650.

TO SPECIFY REQUIREMENTS FOR VACUUM FURNACES OPERATED IN PARTIAL PRESSURE MODE.

TO ADJUST PRESSURE RECORDING TO SIMILAR FREQUENCY AS TEMPERATURE RECORDING.

TO SPECIFY MINIMUM QUALITY ASSURANCE REQUIREMENTS.

TO PERMIT PROCESSING OF PRODUCTION PARTS BEYOND HEAT TREATMENT WHILE TENSILE TEST RESULTS ARE PENDING.

ADDITION OF A HEAT TREATMENT FOR NICKEL ALLOY 718 SOLUTION TREATED AND COLD DRAWN BAR AND WIRE.
CLARIFICATION OF MATERIALS CONTROL REQUIREMENTS. CLARIFICATION OF HEAT TREATMENT VERIFICATION PROCESS
CONTROL REQUIREMENTS FOR NICKEL ALLOY 718.

PROVIDE COVERAGE FOR NICKEL ALLOY 282.

ADD NICKEL-BASE ALLOY MP35N AND ASSOCIATED HEAT TREATMENT.