

Materials & Processes Engineering
QUALIFICATION AND CONTROL OF EXTERNAL TECHNICAL SERVICES
SUPPLIERS

GEP-GPT-MPE-110

Rev. 9.0

Appendix B
MPE110.1

Materials Test Laboratory Supplier Certification
GE Energy – Materials and Processes Engineering

SUPPLIER	Element Materials Technology - Charlotte
ADDRESS	1200 Westinghouse BLVD
	Suite A, Charlotte, NC 28273
ATTENTION	Arthur Moore

Basis for Certification

Round Robin testing in conjugation with GE Aerospace testing for S-400 compliance

LIST THE TESTS FOR WHICH THE SUPPLIER IS QUALIFIED IN THE TABLE BELOW, USING APPROPRIATE S400 CODES, IF AVAILABLE; INDICATE IF THERE IS "NO CODE." INCLUDE REMARKS, CAPABILITIES, LIMITATIONS

TEST	Code (GE Aerospace code)
Room Temperature Tensile	A (AI0A)
Elevated Temperature Tensile	B (AI0B)
Stress Rupture	C (AI0C)
Impact testing	N (AI0N)
Creep	XA (AIXA)
Micro Hardness: Vickers and Knoop (< 1kgf loads)	L1 (AI0L)
Macro Metallography ASTM E340 (Macro Etch of Material Sections of Forgings)	XL (AIXL)
Alloy Depletion	L2 (AI1L)
Oxidation/Corrosion	L3 (AI2L)
Alpha Case and/or Microstructure (wrought Ti-alloys, P3TF19)	L8 (AI3L)
Diffused Zones/Diffusion coatings (e.g., Carburizing, Nitriding, etc.)	L6 (AI6L)
Intergranular Attack (IGA), Intergranular Oxidation (IGO)	L7 (AI7L)
Grain Size (ASTM E112, ASTM E930),	L (AI8L)
Spark/Arc Emission (OES)	F3 (AI3F)
Carbon	G1 (AI1G)
Hydrogen	G2 (AI2G)
Sulfur	G5 (AI5G)
Hardness (Brinell)	M1 (AI1M)
Hardness (Rockwell)	M2 (AI2M)
Low Stress Grinding	Z1 (AI0X)
Heat Treat Specimens	XG (AIXG)

This is to certify that we have reviewed qualification of Operators and/or equipment used for the above-named Test(s) and found them to be capable of satisfying the requirements of the above specifications.

This certification does not in itself constitute a waiver of specification requirements as to inspection, testing, maintenance of records and/or other provisions of the Purchase Order/Sub-Contract, nor does it guarantee the acceptance of articles produced for the General Electric Company. Requirements for the submission and qualification of individual part/samples or other items as contained in the specifications, engineering drawings or Purchase Order will be completed as outline.

Inspection of the facilities for which this certification is granted may be conducted at any time by a Materials and Processes Engineering representative to determine continued compliance with GE requirements.

This certification shall expire a maximum of 3 years from date of issue unless cancelled by a Materials and Processes Engineering representative.

Signature Tom Battiste
MPE Responsible Engineer: Tom Battiste

Date 13 Nov '24

The following shall be completed for a new test Supplier under the requirements of Section xx.

Signature Michael Arnett
MPE First Level Manager: Michael Arnett

Date 13 Nov 2024

Signature Jon C Schaeffer
MPE General Manager: Jon Schaeffer

Date 11-13-24