

Site de Gennevilliers
171, boulevard de Valmy - BP 31
92702 Colombes Cedex - France

Engineering of
Materials and Processes Division
Material and Processes Department
Gennevilliers Plant
YQG (BASILE 4580)

ELEMENT Materials Technology
3200 South 166th Street

NEW BERLIN – WI – 53151
USA
Attention to Denise F. BESTING

Contact : Sylvie CHATARD
☎ 33.1.47.60.75.58
Fax : 33.1.47.60.71.93

e-mail : sylvie.chatard@snecma.fr

COLOMBES, 15th of December 2015

SUBJECT : Laboratory qualification AQPS 497

Dear Madam,

As your Laboratory is currently an ISO 17025 accredited laboratory (certificates a2La N°0098.01 and N°0098.02), we are pleased to inform you that you have been qualified as a testing laboratory according to SAFRAN procedures GRP-0087 and GRM-0092 for the tests defined on the FAL N° 497 enclosed.

After review of some reports on your SEM evaluation for Fatigue test specimen, we inform you that your report and procedures now fully comply with Snecma requirements. But we want to survey this compliance next year. So, could you send us 3 new reports during the 1st semester in 2016.

The continuation of this qualification depends on conditions outlined in SAFRAN procedures GRP-0087 and GRM-0092. At any time, the qualification can be retracted or suspended by SAFRAN.

This qualification does not guarantee the acceptance of all articles produced for SAFRAN.

Yours faithfully.

Team manager for material testing,
SAFRAN laboratories Qualification and outsourcing.
Materials and Processes division.



Bruno LEMAIRE



Attestation de Qualification des Procédés Spéciaux

Special Processes Qualification Certificate

N° AQPS : MDMxx/ FAL497
CODE FOURNISSEUR: 022694-00
SUPPLIER NUMBER

Société Safran émettrice : **Snecma**

Prononce la qualification du fournisseur suivant la GRP-0087 et GRM-0092
Approval on the supplier qualification according to GRP-0087 and GRM-0092

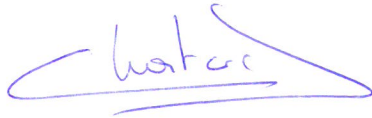
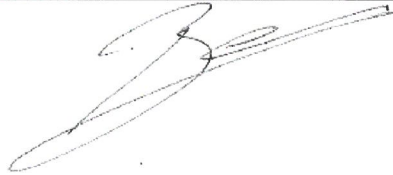
ELEMENT MATERIALS TECHNOLOGY
3200 SOUTH 166TH STREET
NEW BERLIN – WI – 4141
USA

Pour les procédés spéciaux suivants / For the following special processes refer

Safran Process N°	Procédés Processes	Référentiel Technique Technical Specification	Statut	Restrictions techniques Technical limitation	Fin de Validité Expiration Date
F2	Analyse par ICP / ICP analysis	TM CS-3	Qualification	Produits de brasage/Brazing items	2018/12/31
G	Dosage du carbone/ Carbon Analysis	ASTM E-1019	Qualification		2018/12/31
L2a	Examens micrographiques MEB/ SEM metallographic inspections/	TM MA-14	Qualification	Evaluation of fatigue test specimens	2018/12/31
L2b	Micro-analyse X/Micro Analysis X	TM MA-15	Qualification		2018/12/31

N° de rapport Report n°	Observations Remarks :
[@Basile] N° 4580	Certificates a2La N°0098.01 and N°0098.02

Auditeur/Responsable de la Qualification Auditor/Qualification Leader

Date :	Name : Sylvie CHATARD	Team manager for material testing,SAFRAN laboratories Qualification and outsourcing. Bruno LEMAIRE
15 December 2016		

Special Processes Qualification Report

Nom du Fournisseur <i>Supplier</i>	ELEMENT Materials Technology	Code fournisseur <i>Supplier number</i>	AQPS 497		
Adresse <i>Address</i>	3200 South 166 th Street NEW BERLIN – WI – 53151 USA				
Activité Fournisseur <i>Supplier Activities</i>	Independent laboratory				
Contact fournisseur <i>Supplier contact</i>	Nom Name : Denise F. BESTING		Fonction Title : Laboratory Quality Manager		
	Adresse email Email address denise.besting@element.com				
Nature Audit <i>Audit Purpose</i>	Sur site <i>On-site audit</i>	<input type="checkbox"/>	Sur Dossier(DQ) <i>On DQ</i>	<input checked="" type="checkbox"/>	Date :
	Evaluation <i>Evaluation</i>	<input type="checkbox"/>	Renouvellement <i>Re-Approval</i>	<input checked="" type="checkbox"/>	Qualification initiale <i>Approval</i>
			<input type="checkbox"/>	Surveillance <i>Folow up</i>	<input type="checkbox"/>
*Si Autre préciser : <i>If other detail :</i>					
Thème Audit <i>Scope of Audit</i>	Renewal Laboratory Qualification AQPS 497				

Equipe audit & audités <i>Audit staff & auditees</i>				
Fonction <i>Title</i>	Nom <i>Name</i>	Safran	Fournisseur <i>Supplier</i>	Catégorie de l'auditeur Safran⁽¹⁾ <i>Safran auditor level</i>
Auditor	Sylvie CHATARD	X		Snecma
Laboratory QualityManager	Denise F. BESTING		X	

(1) Support Nadcap, Safran, société, en formation /Nadcap support, Safran, society, in progress

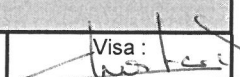
Spécification(s) de l'audit <i>Audit Specification</i>	
Référentiels techniques Safran <i>Safran Technical Specification</i>	
Autres référentiels <i>Other specification</i>	ISO 17025

Procédés et n°PS <i>Process and PS n°</i>	Identification des installations <i>Facility identification</i>	Référentiel Technique <i>Technical specifications</i>	Accréditation NADCAP⁽²⁾ <i>Nadcap accreditation</i>	Décision⁽³⁾	Si restrictions ou surveillance référence du paragraphe
F2	ICP Analysis	TM CS-3		Qualification	
G	Carbon Analysis	ASTM E-1019		Qualification	
L1a	SEM metallographic inspection	TM MA-14		Qualification	
L1b	Micro Analysis X	TM MA-15		Qualification	

(2) : A=Accrédité, E=Engagé, F=audit nadcap failure, R=Engagement nadcap refusé / A=Accredited, E=Engaged, F= nadcap audit failed R=Commitment refused

(3) : Qualifié, Refusé, Suspendu, Qualifié provisoirement, Qualifié avec restriction(s), Autorisé avec surveillance / Qualified, Failed, temporary qualified, qualification with technical restriction(s), authorized with enhanced monitoring

Bilan des écarts et observations		
Majeur(s) : <i>Major</i>	Mineur(s) : <i>Minor</i>	Recommandations : <i>Préventives</i>

Fournisseur <i>Supplier</i>			Représentant Safran <i>Safran representative</i>		
Date :	Nom :	Visa :	Date : 15/12/15	Nom : CHATARD Sylvie	Visa : 

Special Processes Qualification Report

Produits étudiés pendant l'audit <i>Product aim of the audit</i>
Dq6999 Certificate A2LA N°0098.01 and 0098.02 Report Procedures MA-14 and MA-15

Points Forts <i>Positive points</i>	Points Faibles <i>Weak points</i>
A2LA accredited for the same scope Internal Round robin (operator)	

Motivation de la décision <i>Roots of the decision</i>
Renewal laboratory qualification for 3 years Many exchanges on SEM reports and SEM procedures to comply with Snecma requirements The procedures MA-14 and MA-15 comply with Snecma requirements The report ENBO18565P complies with Snecma requirement
Pièces Jointes / Attachments :

Observations éventuelles Fournisseurs <i>Supplier Remarks</i>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: 100px;"> Supplier Signature <i>(si observations /if remarks only)</i> </div>

Special Processes Qualification Report

Eléments analysés <i>Items reviewed</i>			
1	Dq-6999	6	
2	A2LA certificate N°0098.01 and 0098.02	7	
3	Procedures MA-14 and MA-15	8	
4	Report ENBO18565P	9	
5		10	

Tableau des écarts <i>Deviation table</i>						
N° de l'écart <i>Deviation n°</i>	Niveau ⁽⁴⁾ <i>Level</i>	Procédé <i>Process</i>	Description de l'écart <i>Non Conformance Report Responsible</i>	Responsable <i>Responsible</i>	Délai <i>Time limit</i>	Statut <i>Status</i>

(4) : m = mineur/ minor M = majeur/ major

Tableau des Recommandations <i>Préventives table</i>		
N° de la recommandation <i>Preventive n°</i>	Procédé <i>Process</i>	Description <i>Description</i>

Special Processes Qualification Report

1) Contexte / Context

Laboratory Qualification Renewal based on Dq-6999, A2LA certificate N°0098.01 and 0098.02, procedures MA-14 and MA-15 and report ENBO18565P

2) Résultats de l'audit système / Results of the System Audit

Desk audit

3) Résultats de la reconnaissance d'Aptitude / Results of the capability recognition survey3.1) Examen des moyens / Survey of the facility3.2) Examen documentaire / Survey of the documentation3.3) Examen de la qualification des opérateurs / Survey of the qualification of the personnel

Internal Round Robin between operators

3.5) Examen des essais croisés (partie spécifique aux essais laboratoires) / PTP survey

No participation to PTP because no kit available, review of reports by Snecma