

# MEMO

<b>Date</b>	8 October 2015	<b>Ref</b>	ESA-TECQTM-MO-1149
<b>From</b>	Carole Villette	<b>Visa</b>	T. Ghidini
<b>To</b>	ESA PA Managers, ESA Approved SMT lines or under verification, ESA skills training school, ESA recommended outsourcing companies	<b>Copy</b>	ESA: G. Corocher, J. Hokka, R. de Marino, A. Pesce, L. Marchand, M. Nikulainen, W. Veith, CNES: Th. Battault

**Subject: Verification to ECSS-Q-ST-70-38C. Status of Surface Mount Technology (SMT) as of October 2015.**

The verification of an assembly line shall be performed in compliance with the ECSS-Q-ST-70-38C. The verification of a company is not a general approval, but relates uniquely to the materials (i.e. type of PCB laminate, type of solder, type of conformal coating, type of adhesive,...), to the precise types of component/packages and to the design of the PCB footprint that were subjected to the verification programme performed in accordance to the ECSS-Q-ST-70-38C. Each Summary Tables has a unique reference number, which shall be referenced in the relevant ESA Project's Declared Process List.

It is under the responsibility of the supplier to ensure that all packages and assembly configuration are in the ESA Approved Summary Tables and that no changes have been made. It is common to have a running verification programme with a company due to change in the processes, materials, new pad design, vibration levels or presence of new packages.

The status of the Companies varies frequently and therefore an updated status will be issued every 6 months and can be found on the escies server (<https://escies.org/webdocument/showArticle?id=981>).

A total of 52 companies have succeeded the ECSS verification. Out of those 52 companies some have successfully completed the verification programme but the Summary Tables have not yet been signed. Most of the companies listed in the table are currently running a new verification programme. At the completion of the programme a new Summary ATble will then be issued.

Companies that have run limited project verification are not listed in this memo in order to avoid any confusion. Those limited verification may be identified in the company PID.

A handwritten signature in blue ink, appearing to read 'C. Villette'.

C. Villette

Materials and Technology Section

COMPANY	Contact person	e-mail address	LOCATION	ESA reference for info notes, Approved Summary Table and date (or other situation)
AEE Electronics	Mr. S. Floares	Sorin.Floares@aeer.ro	Bacau (R)	Verification programme started.
Airbus Defense and Space Bremen	Mr. A. Mack	Andre.Mack@astrium.eads.net	Bremen (D)	TEC-QT/2014/350/CV Tables 1 to 3
Airbus Defense and Space CRISA	Mrs. M. Herrero	maria.herrero-redondo@airbus.com	Tres Cantos (E)	TEC-QT/2013/373 Table 1 dated on 11 July 2013 TEC-QT/2013/376/CV Table 1 for electrical monitoring dated on 11th of July 2013 TEC-QT/2013/574/CV Tables 1 to 4. TEC-QT/2013/576/CV Tables 1 and 2 TEC-QT/2012/77/CV Tables 1 and 2 TEC-QT/2012/75/CV tables 1 to 4 TEC-QT-2011-120/CV Tables 1 to 4 TEC-QT/2011/26/CV tables 1,2,3 and 4 TEC-QT/2009/1060/CV Table 1, 2,3 and 4
Airbus Defense and Space Friedrichshafen	Ms. Chiara Mealli	Chiara.Mealli@airbus.com	Friedrichshafen (D)	-QM/97B66, Tables 1 – 6, of April 2000.
Airbus Defense and Space Ottobrunn	Mr. Friedrich Koberlin	Friedrich.koeberlin@airbus.com	Ottobrunn (D)	QM/08-1001/CV table 1 to 10 dated on 10 December 2008. New ESA Summary Table to be signed.
Airbus Defense and Space Portsmouth	Mr. Lee Birch	lee.birch@astrium.eads.net	Portsmouth (GB)	QM/05-210/BD, Tables 1 –7, of 8 August 2005. New summary table to be signed
Airbus Defense and Space Elancourt	Mr. Ph. Cardon	Philippe.Cardon@airbus.com	Elancourt (F)	-TEC-QT/2012/20/CV Tables 1 to 5 dated on 25/07/2012.
ASP	Mr. Gunther Neumann	g.neumann@asp-equipment.de	Salem (D)	TEC-QT/2013/659/CV Tables 1 and 2
Blueelectronic	Mr V. Tordiglione	terry.stock@blueelectronic.it, valentino.tordiglione@blueelectronic.it	Desio (It)	TEC-QT/2013/475 tables 1 and 2
Codechamp	Mrs. Martine Tabard	m.tabard@codechamp.fr	Champagnat (F)	QM/95J402, Table 1, 3 Oct. 95. Summary Tables to be issued.

COMPANY	Contact person	e-mail address	LOCATION	ESA reference for info notes, Approved Summary Table and date (or other situation)
COMDEV-Europe	Andrew Spencer	Andrew.Spencer@comdev.co.uk	Aylesbury (UK)	Verification completed. Assembly subcontracted to SPUR Electron. No Summary tables received
Creotech	Mr. Jacek Kosiec	Kontakt@creotech.pl	Piaseczno (PL)	Verification programme started
CSRC	Marek Simka	marek.simcak@csrc.cz	Kromeriz (CZ)	ESA/TECQTM/LE/0884 Table 1 dated on 21st of August 2015
DAS Photonics	O. Navasquillo	olga.navasquillo@dasp Photonics.com	Valencia (E)	Verification programme completed. No Summary Table provided.
Efacec	Maria João Pato,	maria.joao.pato@efacec.pt	Moreira Maia (P)	Verification programme completed. Summary table to be signed.
Erems	Mr. L. Montel	ludovic.montel@erems.fr	Flourens (F)	Verification programme completed. Summary table to be signed.
GL Electronics	Mr. M. Micola	michal.micola@glelectronic.cz	Brno-Medianky (CZ)	Verification programme started.
Hitech Elettronica	Mr. Piombini	vincenzo.piombini@hitechelettronica.it	L'Aquila (I)	Verification programme completed. Summary table to be signed.
Jenaoptik	Mr. R. Hunger	Ronald.hunger@jena-optonik.de	Jena (D)	-QM/98F97/BD, Table 1, of 3 June 1998. - New Summary Tables to be signed
Kayser Italia	Mr. Fabio Creati	F.creati@kayser.it	Livorno	Introduction letter received the 3rd of May (KI-SALDA-LT-006)
Kongsberg-NORSPACE	Mr. Stian Lerdaahl	stian.lerdahl@norspace.no	Horten (N)	-QM/2000H122, Table 1, 29/08/2000. Verification programme completed. Summary Tables to be signed.
LusoSpace	Mrs. C. Felix	CFelix@lusospace.com	Lisbon (P)	TEC-QT/2014/241/CV Table 1 dated on 6th of November 2014 -Moved of the company. New audit to be performed by ESA.
MEL	Mr. F. Renaut	frederic.renaut@matra-electronique.fr	La croix St Ouen (Fr)	-TEC-QT/2011/18/CV tables 1 and 2. -TEC-QT/2013/462/CV tables 1 to 3.

COMPANY	Contact person	e-mail address	LOCATION	ESA reference for info notes, Approved Summary Table and date (or other situation)
Mier Comunicaciones	Mr. A. Prieto	aprieto@mier.es	Barcelona (E)	-QM/06-416/BD table 1,2, 3 dated on the 2 May 2006. Verification programme completed. Summary Tables to be signed.
Montena Technology SA	Mr. W Hirschi	Werner.hirschi@montena.com	Rossens (CH)	-QT/09-1016/CV Table 1 and 2.
MOOG- Bradford	Mr. E. Van der Kroon,	e.vanderkroon@bradford-space.com	Heerle (NL)	TEC-QT/2009/1039/CV Table 1.
NTE-Sener SA	Mrs. E. Creus	eva.creus@nte-sener.es	Barcelona (E)	QM/05-246/BD Table 1.
OHB- CGS	Mr. S. Legramandi	slegramandi@cgspace.it	Milan (I)	QM/02-440, Table 1 and 2 dated on 31 January 2002. Summary Tables to be received. .
OHB Munich	Mr. A. Hannes	alexander.hannes@kayser-threde.com	München (D)	QMM/98J204/BD, Table 1, of 14 Oct. 98 TEC-QT/2014/441/GC dated on 9th of February 2015
OHB Systems	Mr. I. Feldkamp Mrs. Iris Nowotny	ismail.feldkamp@ohb-system.de iris.nowotny@ohb-system.de	Bremen (D)	QM/02-402, Table 1, of 3 January 2002. Summary Tables to be signed.
Rakon	Mr. F. Maillard	marc.jouan@rakon.com Frederick.MAILLARD@rakon.com	Pont St. Marie (F)	TEC-QT/2013/491/CV Tables 1 to 3
Rakon (C-MAC)	Mrs. F. Puigsech	francine.puigsech@rakon.com	Argenteuil (F)	QM/95J458, Table 1 of 31 October 1995, Table 2, of 2 January 1996
RAL	Tery Almond	tery.almond@stfc.ac.uk	Didcot	Application letter received the 12th of July 2013 Verification started
RESA	Thierry Reboul	thierry.reboul@resaspatiales.fr	Courtaboeuf (F)	-ESA Approved Summary Table to be signed -ESA Approved as Subcontractor of Sodern: TEC-QT/2013/749/CV Tables 1 and 2
Rockwell Collins (former Teldix) Germany	Mr. M. Berberich	michael.berberich@rockwellcollins.com	Heidelberg (D)	Approval status no more valid

COMPANY	Contact person	e-mail address	LOCATION	ESA reference for info notes, Approved Summary Table and date (or other situation)
Ruag Space Austria	Mr. G. Guttler	gerd.guettler@ruag.com	Vienna (A)	-QM/05-057/BD table 1 to 4 of 4th March 2005. -Verification programme completed -Summary Tables to be signed
Ruag Space Finland) y Ab (PATRIA Aviation)	Mr. M. Virtanen	Matti.Virtanen@patria.fi	Tampere (Fi)	-QM/05-309/BD Table 1 and Table 2, December 2005. -TEC-QT/2013/385/CV Tables 1 and 2
Ruag Space Sweden (RSE)	Per Allard	per.allard@ruag.com	Gothenburg (S)	-QM/03-270, Tables 1-5, of 11 November 2003. -TEC-QT/2013/550/CV table 8, dated on 11 July 2013 for SWS.
SABCA	Mr. P. Lenelle	pierre.lenelle@sabca.be	Brussels (B)	-Info Note QM/05-079/CV sent on 23 March 2005. -Summary Table to be signed
Sagem	Mr. S. Blache	stephane.blache@sagem.com	Valence (F)	Summary Table no more valid
Selex -ES Nerviano	Mr. D. gallibariggio	dario.gallibariggio@selex-es.com	Nerviano (I)	-QMM/99A06/BD, Tables 1 & 2, 3 January 1999.
Selex-ES Firenze	Mr M. Cosi Mr. D. gallibariggio	massimo.cosi@selex-es.com dario.gallibariggio@selex-es.com	Firenze (I)	-QM/02-632/Tables 1-5, 17 October 2002. -TEC-QT/2009/1132/CV Tables 1,2, 3 and 4
Sener	Mr. Luis Fernando Sanchez	luis.sanchez@sener.es	Tres Cantos (E)	Summary Tables to be signed
Sitael (former CAEN)	Mr. G. Vitale	giuseppe.vitale@sitael.com	Pisa (I)	Summary Tables to be signed.

COMPANY	Contact person	e-mail address	LOCATION	ESA reference for info notes, Approved Summary Table and date (or other situation)
Sodern	Mr. J.B. Julien	jean-baptiste.jullien@sodern.fr	Limeil-Brevannes (F)	-ESA Approved Summary table: QM/08-968/CV tables 1 and 2. -TEC-QT/2011/46/CV Tables 1 and 2 dated on 15 April 2011. -TEC-QT/2013/749/CV Tables 1 and 2
Spectratime	Mr. G. Galonier	galonier@spectratime.com	Neufchatel (CH)	Summary Tables to be signed
Spur Electron	Mrs. C. Barnes	cbarnes@spurelectron.com	Havant (GB)	1/ ESA Approved Summary Table: QM/07-748/BD table 1 to 4. 2/ ESA Approved Summary Table: QM/06-520/BD table 1 to 4.
Steel Electronique	Mrs. Ch. Magisson	christelle.magisson@steel-electronique.fr	Martres Tolosanes (F)	-TEC-QT/2011/200/CV tables 1 and 2 . -TEC-QT/2011/202/CV table 1 -New Summary Tables to be signed.
Syderal	Mr. G. Van deputte, Mr. F. Perrin	Frederic.perrin@syderal.ch guillaume.vandeputte@syderal.ch	Gals (CH)	-QM/96J487, Table 1, 28 Oct. 96, Tables 2-5, 16 Nov. 97; Table 6, 12 July 99; Tables 7-8, 12 Feb.01; Table 9, 20 February 2003. New Summary Tables to be signed
Tecnobit	Raul Martinez Sanchez	raul.martinez@tecnobit.es	Valdepenas-Ciudad Real-(E)	-TEC-QT/2013/761/CV Table 1
Terma	Mr. K. Plauborg	KP@terma.com	Lystrup (DK)	-QM/2000H123, Table 1 and 2, of 29 Aug. 00 and Table 3 of 24 Oct. 00. -New Summary Tables to be signed
Tesat Spacecom	Mr. Henry Heidemeyer	henry.heidemeyer@tesat.de	Backnang (D)	-QM/01-121, Table 1, 26 April 2001. -TEC-QT/2012/136/CV dated on 19/12/2012

COMPANY	Contact person	e-mail address	LOCATION	ESA reference for info notes, Approved Summary Table and date (or other situation)
Thales Alenia Space Espana	Angel Fernadez Gonzalvo	Angel.Fernandez_Gonzalvo@thalesaleniaspace.com	Tres Cantos (E)	-QM/03-078/BD, Tables 1-8, 12/03/2003.  New Summary Tables to be signed.
Thales Alenia Space-Belgium	Mr. L. Cantagallo	luigi.cantagallo@thalesaleniaspace.com	Charleroi (B)	-QM/06-464/BD Table 1 of 24 July 2006. -TEC-QT-2012-47 Tables 1 and 2 dated on 14th of September 2012.  New Summary Tables to be signed.
Thales Alenia Space Toulouse	Mr. J.P. Bessaguet	jean-pierre.bessaguet@thalesaleniaspace.com	Toulouse (F)	QM/01-348/BD, Tables 1 to 8 TEC-QT/2011/198 Tablers 1 to 11. TEC-QT/2011/198/CV tables 1 to 12 dated on 1st december 2011.  New Summary Tables to be signed.
Thales Alenia Space Italy	Mr. L. Sollecchia	Luca.Sollecchia@thalesaleniaspace.com	L'Aquila (I)	Approval status QM/03-290/BD, Tables 1- to 5 of 28 November 2003.  New Summary Tables to be signed
Thales Alenia SPace UK (former SEA)	Mr. M. Burrige	martin.burridge@thalesaleniaspace.com	Bristol (UK)	-Verification programme completed Summary Tables to be signed
Thales Systeme Aeroportes	Mr. P Wattier	patrice.wattier@fr.thalesgroup.com	Elancourt (F)	QM/07-738 Table1 and Table 2 dated on 20 August 2007.
University of Birmingham	David Hoyland	dh@star.sr.bham.ac.uk	Edgbaston (UK)	Summary Tables to be signed