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**Ciretec**  
**att. J Jouffroy, site director**  
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**45130 Saint Ay, France**

Our ref.                      ESA-TECQTM-LE-1056

Noordwijk, 10/09/2015

VISA: T Ghidini (TEC-QTM), M Nikulainen (TEC-QT)  
CC: W Veith (TEC-Q), JL Lortal (CNES)

**Subject: Qualification Status of Ciretec**

Dear Mr Jouffroy,

Ciretec of Elvia-group submitted a request for ESA qualification in 2012. The way forward for the qualification has been described in MoM QT-2012-174-SH and letter QT-2013-355-SH. Ciretec submitted samples for rigid and rigid-flex sequential polyimide technology for evaluation by ESTEC. The acceptable evaluation has been reported in QT7907 and QT7941.

Ciretec has issued on 10 Sep 2015 the Qualification Test Report for the rigid polyimide technology with reference "Qualification Dossier MC14" and for the rigid-flex polyimide technology with reference "Qualification Dossier FR14". The qualification dossiers have been approved by ESA.

Ciretec issued on 9 July 2015 the following Product Identification Documents (PID), which have been approved by ESA.

PID 2015-01 - ind 01 - Organisation société – Introduction to the organization

PID 2015-02 - ind 01 - MC14 Circuit Multicouches Séquentiel Polyimide

PID 2015-03 - ind 01 - FR14 Circuit Flex-Rigide Séquentiel Polyimide

A first audit of Ciretec facilities has been performed in 2014 in accordance with ECSS-Q-ST-70-10C. The outcome included several areas of improvement, as minuted in QT-2014-378-SH. A second delta audit has been performed in July 2015 and the successful outcome is minuted in ESA-TECQTM-MIN-0933.

Ciretec is considered ESA qualified in accordance with ECSS-Q-ST-70-10C for the manufacture of Printed Circuit Boards as follows:

Rigid sequential polyimide PCBs as per PID 2015-02 ind 1 **until 1 October 2016**

Rigid-flex sequential polyimide PCBs as per PID 2015-03 ind 1 **until 1 October 2016**

Best regards,

Stan Heltzel  
TEC-QTM Material Technology Section