



## 49<sup>th</sup> CEEES Meeting

### Minutes of R and ESS TAB

**Meeting location :** Royal Academy

**Date :** 14<sup>h</sup> February 2008

**Attendees :** see list hereafter



<b>Name</b>	<b>1<sup>st</sup> name</b>	<b>Company/Society</b>	<b>phone</b>	<b>fax</b>	<b>email</b>
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## **1 - ADOPTION OF THE 47<sup>rd</sup> CONGRESS R&ESS MEETING MINUTES**

The minutes are adopted.

## **2 - Apologies FOR ABSENCES**

Michel Holy is apologized.

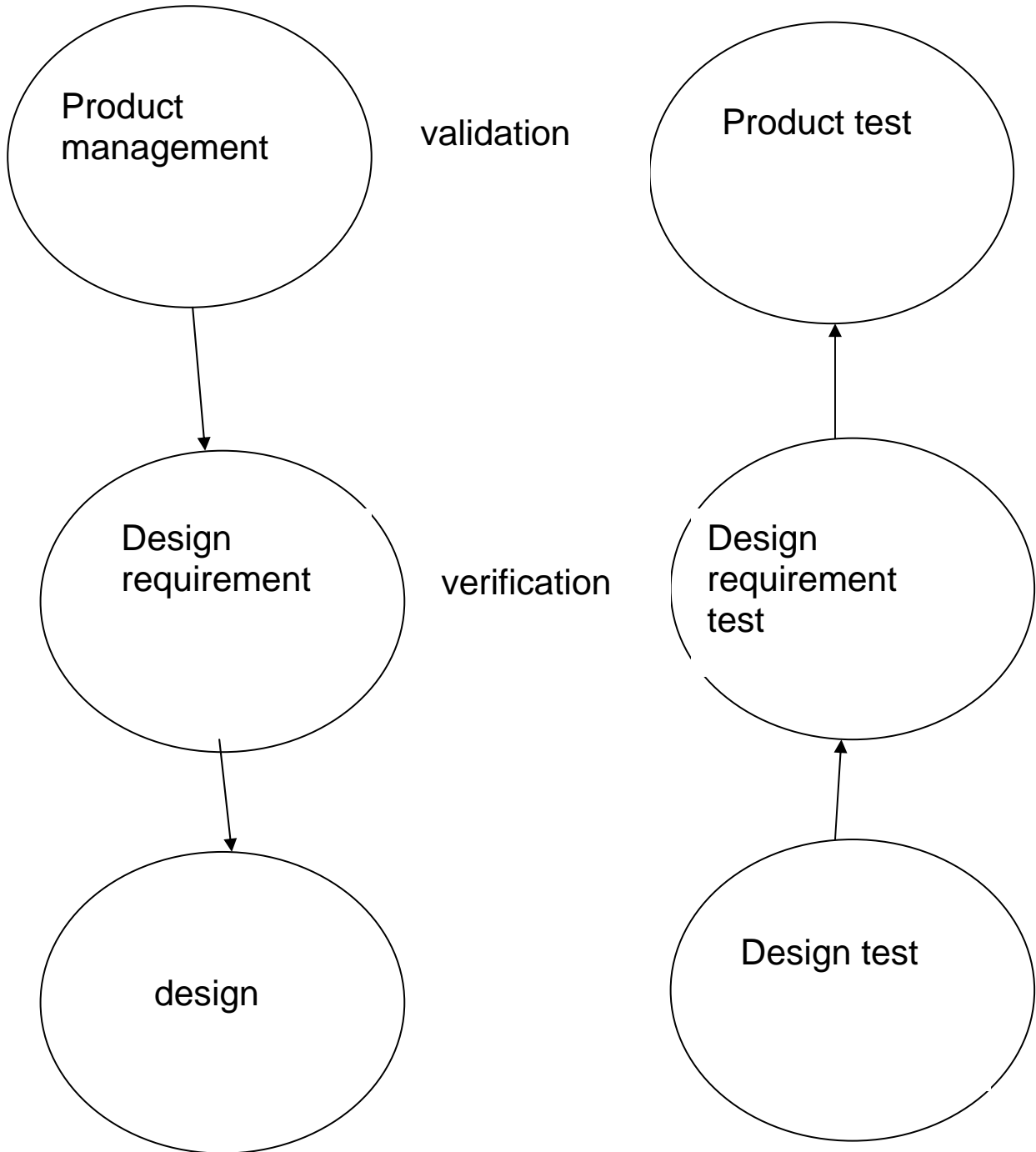
## **3 – Report**

The actions concerning the draft of the draft entitled “ For a mature product since the beginning of deployment” are :

- Harry Roosien will pass through the text of the § “ Highly accelerated tests” . If the content isn't able to integrate the robustness tests he described during the meeting then he will propose a new § “Robustness tests” . Otherwise, he will modify and/or complete the existing one (are carrying within their company robustness testing : for example with drop testing, they increase the height of the free fall till the product fails. In vibration test , they increase the grms level by steps till the product fails.)  
Harry has presented the methodology applied in his company. See graph on next page
- Colin has submitted his proposal for RGT , that has been passed through during the meeting. He will contact Vip Patel ( MBDA / UK) to see if Vip has the possibility to furnish a draft on Reliability Demonstration Test and on Production Reliability Demonstration Test .
- acceptance tests : Henri will propose a text.
- Qualification tests : last attempt will be made with Michel Holy. Otherwise , Henri will write a proposal.
- Life Duration : Colin will submit a proposal
- Each member of the TAB will provide a list of sites dedicated or related to the subjects of the draft



Based on market requirement



Validation is made against the market requirements  
Verification is made against the technical requirement



Summary of action related to the draft :

Type of test	In charge of	
feasability , design aid	Colin	Done
Development test	Michel	Done
Reliability growth test (RGT)	Colin	Done
Higly accelerated tests	Henri	Done
Accelerated tests	Helge	Done
Qualification	Michel	If not , Henri
Reliability demonstration	Colin	With help of Vip Patel
ESS including HASS	Henri	To be validated
Acceptance test	Henri	
Production reliability acceptance test (PRAT)	Colin	With help of Vip Patel
Pre production (zero production)	cancelled	
Life duration	Colin	
Verification (validation)	cancelled	

Time schedule :

- Submission to SEE R and ESS WG : beginning of April
- End of June:
  - o the document is given to Dave Richads for taking care to put the document in its final format
  - o The draft is sent to the virtual list of members ( to be completed if necessary by the TAB R&ESS members )
- Completion of the final document : beginning of September
- Distribution of one exemplary of the document to the CEEES delegates at next Helsinki meeting
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## 6- TOUR OF TABLE

- future orientations

- Harry Roossien
  - Deepen certain aspects such as robustness testing
- Helge
  - Is willing to Accelerated testing
    - Physical models
    - Statistical approaches
    - Design of experiments
- Henri :
  - Low resources in the TAB : only 4 participants this time
  - Involve more national bodies : extend to the national R&ESS the virtual group
  - Promote some chosen national documents to become basis for CEEES RP. Exemple : aggravated screening document of ASTE.



## List of virtual members

Current members + following list.

TOOLA	Arja	NOKIA	+358 40 7685072		<a href="mailto:arja.toola@nokia.fi">arja.toola@nokia.fi</a>
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