DCG EMC/Electrical Laboratory DC-10614 & DC-10615 Self-Assessment

1.0 GENERAL

You are required to provide a Self-Assessment if you are a DaimlerChrysler Chrysler Group (DCG) supplier and you are planning to perform EMC and Electrical Testing using your laboratory to meet DC-10614 / DC-10615 requirements.

EMC Requirements:

In addition to the Self-Assessment for DC-10614 (EMC), your lab shall also receive the certification of ISO-17025 from a recognized accreditation body with automotive test methods in the ISO-17025 technical scope.

Electrical Requirements:

In addition to the Self-Assessment for DC-10615 (Electrical), your lab shall also be organized and operated according to ISO-17025. DaimlerChrysler reserves the right to inspect the lab to confirm that the requirements are met.

DCG reserves the right to arrange for follow-up correlation tests and/or on site visits to evaluate the DC test methods not included in the ISO-17025 requirements and to further review and discuss the tests defined in the DC EMC Specification(s).
We encourage you to submit the self-assessment as soon as possible to ensure that we have adequate time to process your request.

1.1 Supplier Lab Contact Information

Company Name:	PHOENIX TESTLAB			
Company Address:	D-32825 Blomberg, Germany, Königswinkel 10			
Contact Names	Phone Number	Pager Number / Cell Phone	FAX number	e-mail
Pelz, Dietmar	+49(0)5235/95 00-12	0173-62295-05	+49(0)5235/9500-10	pelz.dietmar@phoenix-testlab.de
Wirth, Matthias	+49(0)5235/95 00-18	0173-62295-02	+49(0)5235/9500-10	wirth.matthias@phoenix-testlab.de

1.2 DCG Contact Information

Approval Team	Phone Number	Pager Number / Cell Phone	FAX number	e-mail
Rob Kado	248 576 6915	248 467 0639	248 576 7045	rk381@dcx.com
Frank Laperriere	313 493 0782			fwl@dcx.com

1.3 Company Information

Specify the names or types of electronic components provided to DCX and its organization (i.e., Chrysler Group, Mercedes Benz, or MMC).

2.0 EMC TEST REQUIREMENTS (DC-10614)

Capability (Y/N)	Test Name	DC-10614 Section	Accredited by (Completed Date)	Accreditation Notes / Additional Requirements	DCG Approval Status Interim / Final (Date)
N	(2.1) Pin Conducted RF Emissions (PCE)	6.2		Noise floor with DC-10614 limits	
Y	(2.2) CISPR 25 Conducted RF Emissions – (Voltage on Supply Lines)	6.3	Datech 11/2004	Noise floor with DC-10614 limits	9/30/2005
Y	(2.3) CISPR 25 Conducted RF Emissions – (Current on All Lines)	6.4	Datech 11/2004	Noise floor with DC-10614 limits	9/30/2005
Y	(2.4) CISPR 25 Radiated RF Emissions	6.5	Datech 11/2004	Noise floor with DC-10614 limits	9/30/2005
Y	(2.5) Magnetic Field Emissions	6.6	Not Applicable	Pictures/drawing of setup and Coil Characterization Graph	9/30/2005
Y	(2.6) Conducted Transient Emissions	6.7	Not Applicable	Pictures/drawing of setup	9/30/2005
N	(2.7) Direct RF Power Injection Test	7.2		Graph of level vs. frequency per DC-10614	
Y	(2.8) Bulk Current Injection	7.3	Datech 11/2004	Graph of level vs. frequency per DC-10614	9/30/2005
Y	(2.9) ALSE with a Ground Plane	7.4	Datech 11/2004	Graph of level vs. frequency per DC-10614	9/30/2005
N	(2.10) ALSE without a Ground Plane	7.5		Graph of level vs. frequency per DC-10614	
Y	(2.11) TEM Cell	7.6	Datech 11/2004	Pictures of Test Setup and bulkhead filter information. Graph of level vs. frequency per DC-10614	9/30/2005
Y	(2.12) Magnetic Field Immunity	8.0	Not Applicable	Pictures/drawing of setup and graph of level vs. frequency per DC-10614	9/30/2005

Y	(2.13) Transient Disturbances Conducted along Supply Lines	9.1	Not Applicable	Pictures/drawing of setup	9/30/2005
Y	(2.14) Transient Disturbances Conducted along I/O Lines	9.2	Not Applicable	Pictures/drawing of setup	9/30/2005
Y	(2.15) Electrostatic Discharge Handling Test	10.1	Datech 11/2004	Pictures/drawing of setup	9/30/2005
Y	(2.16) Electrostatic Discharge Operating Test	10.2	Datech 11/2004	Pictures/drawing of setup based on DC-10614 rev. B	9/30/2005

3.0 ELECTRICAL TEST REQUIREMENTS (DC-10615)

Capability (Y/N)	Test Name	DC-10615 Section	Requirements	DCG Approval Status Interim / Final (Date)
Y	(3.1) Operating Voltage Range	6.1	Copy of Temperature Chamber specs and Pictures/Drawing of setup	9/30/2005
Y	(3.2) IOD	6.2	Pictures/drawing of setup	9/30/2005
Y	(3.3) Voltage Ripple	6.3	Graph of level vs. frequency per DC-10615. Pictures/drawing of setup	9/30/2005
Y	(3.5) Supply Switch Deactivation	7.1	Pictures/drawing of setup	9/30/2005
Y	(3.6) Drop out	7.2	Pictures/drawing of setup	9/30/2005
Y	(3.7) Dips	7.3	Pictures/drawing of setup	9/30/2005
Y	(3.8) Cranking Low Voltage	7.4	Pictures/drawing of setup	9/30/2005
Y	(3.9) Supply Voltage Ramp Up	7.5	Copy of Temperature Chamber specs and Pictures/Drawing of setup	9/30/2005
Y	(3.10) Supply Voltage Ramp Down	7.6	Pictures/Drawing of setup	9/30/2005
Y	(3.11) Defective Regulation	8.1	Pictures/drawing of setup	9/30/2005
Y	(3.12) Jump Start	8.2	Pictures/drawing of setup	9/30/2005
Y	(3.13) Load Dump	8.3	Copy of pictures/drawing of setup and waveform (waveforms into an open and into a 0.5 Ohm load)	9/30/2005
Y	(3.14) Reverse Supply Voltage	8.4	Pictures/drawing of setup	9/30/2005
Y	(3.15) Immunity to Short Circuit (Supply Lines)	9.1	Pictures/drawing of setup	9/30/2005
Y	(3.16) Immunity to Short Circuit (I/O Lines)	9.2	Pictures/drawing of setup	9/30/2005

Y	(3.17) Resistance to Overload	9.3	Pictures/drawing of setup	9/30/2005
Y	(3.18) Supply Voltage Offset	9.4	Pictures/drawing of setup	9/30/2005
Y	(3.19) Ground Reference Offset	9.5	Pictures/drawing of setup	9/30/2005
Y	(3.20) Operating and Voltage Stress for Motors	10.1	Pictures/drawing of setup	9/30/2005
Y	(3.21) Stall Test for Motors	10.2	Pictures/drawing of setup	9/30/2005

4.0 COMMENTS FROM SUPPLIER

5.0 COMMENTS FROM DaimlerChrysler (Chrysler Group (DCG))

Accreditation bodies compliant per ISO 17011 (JAB, A2LA, DATech, ENAC, UKAS, SINAL, and COFRAC) are acceptable. All tests that are accredited to the scopes of the individual tests will be changed to green and approved by the EMC Committee of Chrysler Group. If you have any questions please feel free to contact us.

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