



COMITE EUROPEEN DE NORMALISATION ELECTROTECHNIQUE
EUROPEAN COMMITTEE FOR ELECTROTECHNICAL
STANDARDIZATION

Comité Technique CLC/TC22X : Electronique de puissance
Technical Committee CLC/TC22X : Power Electronics

Paris, 6th January 2017

CLC/TC22X/Sec0199/RM

To: All National Committees of CENELEC
Chairmen, Convenors and Secretaries of WG 02, WG 04, WG 05, WG 06, WG 07
Chairman of EPSMA, ECOS.

Subject: Reporting of the 20th Plenary Meeting CLC/TC 22X (held in Brussels, BE, on 2016-12-08)

Dear Madam, Dear Sir,

Please, find hereafter the unconfirmed Minutes and Decisions' list from the 20th Plenary Meeting of our CENELEC TC 22X Committee, held in Brussels on last Thursday 8th December 2016.

Also, you will find in Annex A, attached to this TC 22X Plenary Meeting report, the Attendance List with signatures from National Body Delegates who attended the Meeting on 2016-12-08.

Yours sincerely,

Martial PATRA
CLC/TC22X – Secretary

Copy:	Mr	JP	VETSUYPENS	-	CEN-CENELEC Management Centre (CCMC) – Standards Director
	Mrs	C	VIGNERON	-	CCMC: Programme Manager – Industry & Infrastructure – Standards
	Mr	B	WEIS	-	TC 22X: Chairman
	Mrs	N	REYNAUD	-	TC 22X: Assistant Secretary

20th CENELEC – TC 22X - Plenary Meeting
Brussels (Belgium)

Thursday December 8th, 2016 [10h00 to 18h00]

Meeting Minutes

Colour Code: **Blue = Text from the Plenary Meeting Draft Agenda.** Black = Minutes of this 20th Plenary Meeting. **Red = Decisions, Recommendations and Remarks linked to Decisions.**

Item	Description	Document
1	20th Plenary Meeting Opening and General Purpose	
	Dr. Benno Weis, TC 22X Chairman welcomed the National Body Delegates and the CCMC TC 22X Programme Manager, Ms. Catherine Vigneron, who could exchange and share the TC 22X concerns during the morning's session.	
1.1	Approval of the draft agenda.	CLC/TC22X/Sec0190A/DA
	The updated Agenda 22X/Sec0190A/DA is adopted	
1.2	Unconfirmed minutes of the 19 th meeting held on last 3 rd December 2015 in Frankfort (DE).	CLC/TC22X/Sec0174/RM
	The minutes of the 19 th TC 22X Plenary Meeting is approved with no additional remark or request.	
1.3	To note the participation of NC delegates and observers.	Attendance_List_TC22X_PI-Mtg_2016-12-08_Brussels-BE.docx
	All National Delegates and attendees introduced themselves	
1.4	Date and place of the next meeting.	
	A question is given for TC 22X Plenary Meetings to be held once a year or in another way? Decision 1 (22X-20-D1): TC 22X Plenary Meetings are maintained for once every year. <u>Remark 1 to 22X-20-D1:</u> For the Next 21 st CLC/TC 22X Plenary meeting the Great-Britain National Committee Delegates agreed for welcoming our "Power Electronics" Committee in London (BSI) from Tuesday 12 th December 2017 from 1h00 p.m. up to Wednesday 13 th Dec. 2017, at 12h a.m. <u>Remark 2 to 22X-20-D1:</u> TC 22X suggests for the next coming Plenary Meetings to meet within a slot timing of 2 days in order to allow all European attendees to easily reach the Place of meeting the first day and to leave not too late on the second day. The London's 22X Plenary Meeting of 2017 will apply this proposal.	
2	TC 22X Committee General Overview	
2.1	Review of the decision list from the 19 th CLC/TC 22X Plenary Meeting. CLC/TC 22X Decisions' list has been circulated to CLC/BT on 2015-12-08. - Follow-up of these decisions.	TC22X-sec0173-REP
2.2	Relevant decisions from CLC/BT since last CLC/TC 22X meeting	CLC-BT_Decisions_impacting_TC22X_2016-08-08_follow-up.xlsx
	The more recent CLC/BT decisions have been discussed along the day, depending on the topics covered.	
2.3	Feedback from use of collaboration tool and CLC/TC 22X Committee Cenelec Website.	
2.3.1	Use of Collaboration tool	

	<p>A discussion took place on the best way to report to NC Delegates about TC 22X Plenaries.</p> <p>It is suggested to store the data from each different Plenary Meetings (presentations, documents, reports) and from the "Points system" EC study in specific folders.</p> <p>Decision 7 (22X-20-D7): CLC/TC 22X decides to build new folders within the TC 22X Collaboration tool area. One should be dedicated to TC 22X Plenary Meetings "22X-PI-Mtgs". One should be dedicated to the "Points system" study.</p>	
2.4	Status of Liaisons with CLC/TC 22X.	
2.4.1	<p>CLC/TC 22X – Participation of EPSMA as Liaison Organization</p> <ul style="list-style-type: none"> - Liaisons with other Partners (ECOS) - Liaisons with other TCs from CEN & CLC - CLC/TC 22X to be part of CEN-CLC-ETSI Smart-Meter Coordination Group? To nominate a 22X Representative? 	<p>CLC/TC22X/Sec0177/INF; CLC/TC22X/Sec0175/Q ; CLC/TC22X/Sec0175A/Q & CLC/TC22X/Sec0177A/INF BT153/DG10132/INF</p>
	<p>The liaison with EPSMA is discussed.</p> <p>Decision 8 (22X-20-D8): TC 22X requests from EPSMA to appoint a Liaison Officer in order to make the Liaison with TC 22X operational and efficient. EPSMA Secretariat will be contacted for starting the process.</p> <p>Also document BT153/DG10132/INF is discussed, considering a CEN-CLC-ETSI Smart-Meter Coordination Group.</p> <p>Decision 9 (22X-20-D9): TC 22X Secretariat will draft a Questionnaire for asking for a possible TC 22X Delegation for participating to the CEN-CLC-ETSI Smart-Meter Coordination Group.</p>	
2.5	Review and update of the CLC/TC 22X Database	BT153/DG10082/REP
2.5.1	CLC/TC 22X Membership	
2.5.2	Scope for each of TC 22X/WGs, and to consider possible setup of new 22X/WG	
	This topic is not discussed because of lack of time.	
2.5.3	<p>To consider EN standards published from last TC 22X Plenary. To consider harmonization of published standards related to NLF (Annexes ZZ requested for after 2016-04-20):</p>	
	<p>Discussion on Annexes ZZ, with our TC 22X Programme Manager, Ms. Catherine Vigneron:</p> <p>She said that our Annexes are fine but too complicated (technical aspect) for lawyers in the EU. Annexes ZZ have to be simplified.</p> <p>Mr. Heribert Joachim says that Standards' users have to realize Risk assessment. Because of that, our Annexes ZZ need to show the risk assessment coverage.</p> <p>It is recall that in Cenelec Guide 32 the "hazards" are addressed, not the "Risks".</p> <p>It is expressed by the TC 22X Audience that New Approach Consultant (NAC) should provide clear explanation why they reject Annexes ZZ.</p> <p>Discussion is conducted about the dated/undated standard references: Mr. B. Weis says that undated ref. from the IEC standard means the latest published standard.</p> <p>Question to be given to NAC: Is it a problem if undated IEC Standard references change from edition "x" to edition "x+1" and at Cenelec level we still reference edition "x" because mandatory dated? We could face problems with stability dates because of that situation!</p> <ul style="list-style-type: none"> • It is the reason why standards are not HD and not published in the OJEU. No HD have been published in the OJEU since January 2016 related to EMC Directive. 	

	<p>Decision 2 (22X-20-D2): TC 22X to request CCMC for a meeting with New Approach Consultants (NAC) for all rejected Annexes ZZ. TC 22X Secretary to manage these meetings with TC 22X CCMC Programme Manager.</p> <p>Recommendation 1 (22X-20-R1): TC 22X to include NAC in the loop of each IEC new standard development at the beginning of the process for IEC/TC 22, 22E, 22G, 22H.</p> <p>Recommendation 2 (22X-20-R2): All CLC/TC 22X WG Convenors to contact their equivalent non-European Convenors at IEC/TC 22 or SC 22s level for information about the need for Annexes ZA and ZZ.</p> <p>Decision 3 (22X-20-D3): TC 22X requests for drafting all necessary Annexes ZA including Dated standard references for all standards to be listed in OJEU.</p> <p>Also, our CLC/TC 22X Programme manager, Ms. Catherine Vigneron, provided general information on the Radio Equipment Directive (RED) ref. 2014/53/EU that will apply on next 2017-06-13. TC 22X equipment which provide Radio communication function are in the scope of the RED. RED includes the scope of the previous Directive for Radio equipment (RTTE). But the European Commission rejected the possibility to refer to the LVD and EMCD and their standards listed in OJEU for radio equipment. For electrical safety and Electromagnetic aspects, RED and standards listed under RED in OJEU shall be the reference. TC 22X should solve the issue before June 2017 with help from CCMC. Mr. Iain Lindsay, BG-NC Delegate provided a summary of the situation for Drive systems within a presentation. If TC 22X doesn't expect to draft any Annex ZZ for RED, TC 22X needs to prepare a guide to explain its process for compliance with RED requirements. A question is raised: Do CLC/TC 22X want to list the TC 22X Safety standards under RED?</p> <p>Decision 4 (22X-20-D4): TC 22X builds a "Consultant Management" Task force (= CLC/TC 22X/TF NAC) in order to prepare discussion with CCMC and the European Commission in a horizontal way. Members are (Mr. Martial Patra, Mr. Preben Holm, Mr. Holger Laible, Mr. Iain Lindsay).</p> <p>Remark 1 to 22X-20-D4: Mr. Eric Brun will be asked for his possible participation in this 22X/TF NAC.</p> <p>Remark 2 to 22X-20-D4: Mr. Iain Lindsay is the dedicated TC 22X representative for the RED topic.</p>	
2.5.4	Status of Directives in reference for TC 22X standards	
	This point is discussed all along the topics managed during this Plenary Meeting.	
2.5.5	Review of CLC/TC 22X Business Plan	CLC/TC22X/Sec0144/REP
	Business Plan is to be finalized but before, TC 22X Officers, Martial Patra and Benno Weis, have to review the scope.	
2.6	European Commission (EC) Regulation overview	
2.6.1	Legislative Package and regulation on "Circular Economy" from 2015-10	Cir-Eco_Q&A_MEMO-15-6204_EN COM-2015-614-Final COM-2015-614-Final_Annex-1
2.6.1.1	Material Efficiency aspects : feedback from CEN-CLC/BT-JWG 10: "Energy-related products – Material Efficiency Aspects for ecodesign"	
	The latest information about the standardization activities from the new CEN-CLC/BT-JWG10 have been discussed. Experts from our TC 22X Committee are involved in different PT of JWG10.	
2.6.1.2	Technical assistance study for the assessment of the feasibility of using "points system" methods in the implementation of Ecodesign Directive	Report dated 2016-04 on "Points System" (TASK 2)

	(2009/125/EC)	& CLC/TC22X/Sec0187/INF
	Mr. Martial Patra, as TC 22X Secretary, attended the first stakeholder meeting on last 2016-06-30. A presentation from Mr. Patra, given at the last CEN-CLC Ecodesign Coordination Group (Eco-CG) in his position of Eco-CG Chairman, is available for TC 22X experts.	
2.6.2	Legislative Package and regulation on "Clean Energy Package" from 2016-12-02	
	TC 22X Programme of work's review by Working Groups (WG)	
	For standards managed by each CLC/TC 22X WG, the status and standardization work's progress for Cenelec Homegrown standards, or from IEC mirror Technical Committees' activity is summarised. Ratification/Harmonisation at European level is considered. Nota: WG1 & WG3 are disbanded:	
3	Review of Power Drive Systems (PDS) work in progress: WG2	
	(Convenor: P. Zwanziger) Reporting from the WG2 Convenor, based on decisions and work-program from the IEC/SC 22G and dedicated work from Cenelec CLC/TC 22X.	
	Decision 6 (22X-20-D6): TC 22X appoints Mr. Preben Holm as CLC/TC 22X/WG 2 Convenor for management of Power Drive Systems (PDS) standardization work. For information: EN 61800-7-x series have been published on 2016-02-12	
3.1	EN 50598-2:2014/prA1 [project 63192] "Energy efficiency indicators for power drive systems and motor starters". - Annex ZZ. Standard managed by WG6 (TF1; TF3; TF6). See item 6.3	CLC/TC22X/Sec0180/INF & BT154/DG10185/DV
	TC 22X Secretary explained the situation with the Annex ZZ of the EN 50598-2 already published but with the process for listing in OJEU blocked by CLC/BT because of consideration from the GB-NC objection. Mr. Iain Lindsay, GB-NC Delegate, explained the reason for the late GB objection circulated to CCMC, and the reason why GB-NC provided the negative assessment. In principle, GB-NC agrees with the technical content of the standard. The problem is only linked to a "Legal" aspect. Recommendation 3 (22X-20-R3): All TC 22X Delegates to discuss with their NC the GB-NC objection for listing EN 50598-2 in OJEU and to come back to TC 22X with the feedback for final analysis. Also CLC/TC 22X would like the EC/DG Energy Desk Officer to consider this point, but only after some feedback from majority of TC 22X NC consultation based on Recommendation 22X-20-R3. Decision 5 (22X-20-D5): TC 22X decides to withdraw the EN 50598-1 ed.1 and the EN 50598-2 ed.1 when EN 61800-9-1 ed.1 and EN 61800-9-2 ed.1 will be published. But it shall be still possible to refer to the EN 50598-1 and EN 50598-2 during 3 years after the publication of EN 61800-9-1 ed.1 and EN 61800-9-2 ed.1. Also Dr. Benno Weis provided information on the standardization process and issues from IEC/TC 2 and CLC/TC 2 related to "Energy Efficiency" aspects.	
3.2	EN 61800-3:2004/FprA2:2015 [project 61136] ; <u>Amendment A2 edition 3</u> "EMC requirements for PDS" Progress of work from IEC/SC 22G/MT 7	
3.3	EN 61800-5-1: 2007/FprA1:2016 [project 61329]: "Safety requirements - Electrical, thermal & Energy" for PDS Progress of work from IEC/SC 22G/MT 11	CLC/TC22X/Sec0179/RV
3.4	EN 61800-5-2 (2016) [project 60188]:	

	<p>“Safety requirement – functional” Progress of work from IEC/SC 22G/MT 12</p>	
3.6	<p>EN 61800-9-1 (2015) [project 60384] “Energy efficiency of power drive systems, motor starters, power electronics and their driven applications. General requirements for setting energy efficiency standards for power driven equipment using the Extended Product Approach (EPA) and semi analytic model (SAM)” Standard managed by CLC/TC 22X/WG 6 (see item 6) Progress of work from IEC/SC 22G/WG 18 - To consider the overlapping (competition) between EN 50598-1 and EN 61800-9-1.</p>	CLC/TC22X/Sec0194/RV
3.7	<p>EN 61800-9-2 (2015) [project 60385] “Adjustable speed electrical power drive systems - Part 9-2:Ecodesign for power drive systems, motor starters, power electronics & their driven applications - Energy efficiency indicators for power drive systems and motor starters.” Standard managed by CLC/TC 22X/WG 6 (see item 6) Progress of work from IEC/SC 22G/WG 18 - To consider the overlapping (competition) between EN 50598-2 and EN 61800-9-2.</p>	CLC/TC22X/Sec0195/RV
	<p>Mr. Preben Holm reported from the TC 22X/WG 2. <u>EN 61800-2:</u> He said that when the technical content from the IEC 61800-9-3 and aspects for use of PDS in Explosive atmospheres would be ready, the IEC/EN 61800-2 should reference the updated information. <u>EN 62477-2:</u> Because of Negative assessment result for the vote on CDV (1st) level, it is expected that a 2nd CDV should be published in 2017-Q3.</p>	
4	<p>Review of Uninterruptible Power Systems (UPS) work in progress: WG4</p>	
	<p>(Convenor: E. Brun) Reporting from the WG4 Convenor, based on decisions and work-program from the IEC/SC 22H and dedicated work from Cenelec CLC/TC 22X.</p>	
	<p>General information are provided by Mr. Eric Brun: CLC/TC 22X/WG 4 faces similar problems with Annexes ZZ. Harmonization with USA “Energy Star” requirements is to be considered. Standards should be modified in the near future. The EC/JRC “Code of conduct” references the old EN 62040-3 standard, that is possibly a problem. IEC 62310 series start the maintenance cycle. Parallel process is considered at CLC level. Nevertheless, these standards are not so much used on the market.</p>	
4.1	<p>EN 62040-1 (2015) [project 61153]: “General & safety requirements for UPS” Progress of work from IEC/SC 22H/MT 62040-1</p>	CLC/TC22X/Sec0184/RV
4.2	<p>EN 62040-2 (2015) [project 61154]: “Electromagnetic compatibility (EMC) requirements” for UPS. Progress of work from IEC/SC 22H/MT 62040-2</p>	CLC/TC22X/Sec0185/RV
4.3	<p>EN 62040-5-3 (2015) [project 60353] “d.c. output UPS - Performance and test requirements” Progress of work from IEC/SC 22H/WG 6</p>	CLC/TC22X/Sec0186/RV
4.4	<p>Other standardization activities for CLC/TC 22X/WG 4.</p>	
5	<p>Review of Safety requirements work in progress: WG5</p>	
	<p>(Convenor: P. Holm) Report from the WG5 Convenor based on decisions and work-program from the IEC/TC 22 & IEC/ACOS and from dedicated work from Cenelec CLC/TC 22X.</p>	

	Global TC 22X/WG 5 reporting is given at the same time with reporting for WG 2.	
5.1	EN 62477-1 (2012)/FprA1:2016 [project 59379]: “Safety requirements for power electronic converter systems and equipment (PECS) – Part 1: General”. Progress of work of IEC/TC 22/PT 5.	CLC/TC22X/Sec0181/RV
5.2	EN 62477-2 [project 63172]: “Safety requirements for power electronic converter systems and equipment (PECS) – Part 2: Power Electronic Converters from 1000 V AC or 1500 V DC up to 36 kV AC or 54 kV DC”. Progress of work of IEC/TC 22/PT 62477-2.	prEN 62477-2:2016 IEC VOTING RESULTS (2016-12-02) CLC PARALLEL VOTE ON CDV
5.3	Future work for WG5 at CLC/TC 22X level.	
6	Review of Energy Efficiency requirements work in progress: WG6	
	(Convenor: B. Weis) Report from the WG6 Convenor based on decisions and work-program from the Cenelec CLC/TC 22X committee and from the IEC SC22G (WG 18 or AG 15).	
	Decision 10 (22X-20-D10): TC 22X/WG 6 is put on sleeping mode as the work for Energy Efficiency aspects for PDS and starters is conducted at IEC Level within IEC/SC 22G/WG 18.	
	This topic is discussed in parallel with the Annex ZZ (see point 3.1).	
6.1	Status and scope of WG6 (Title of the WG6), including status of Liaisons and Relationship with the IEC/SC 22G/ Advisory Group 15 and 22G/WG 18 (→22X/WG 6/TF 4)	
6.2	Status of European ErP Directive on Ecodesign: 2009/125/EC (WG 6/TF 4).	See also item 2.6.2
6.2.1	Reporting on EU Commission (EC) Standardization Requests (Mandates M/470 on Motors; M/476 on VSD & PDS).	
6.2.2	Update of EC Regulations: implementation measures (Lots 11, 27 to 31).	
6.3	EN 50598-x standard series: “Ecodesign Ecodesign for power drive systems, motor starters, power electronics & their driven applications”	
6.3.1	EN 50598-1:2014 (WG 6/TF 4) “General requirements for setting energy efficiency standards for power driven equipment using the extended product approach (EPA), and semi analytic model (SAM)”.	
6.3.2	EN 50598-2:2014 (WG 6/TF 1; TF 3; TF 6) “Energy efficiency indicators for power drive systems and motor starters”.	See also item 3.1 & 3.7
6.3.3	EN 50598-3:2015 (WG 6/TF 2) “Quantitative eco design approach through life cycle assessment including product category rules and the content of environmental declarations”.	
6.3.4	Other CLC/TC 22X standards considered for environmental impact: Updating of the TC 22X Environmental Database.	See also item 2.6.1.1
7	Review of Power Supplies (PSU) work in progress WG7	
	(Convenor: Reiner HITZEMANN) Report from the WG7 Convenor, based on decisions from CLC/TC 22X and based on decisions and work-program from the IEC/SC 22E.	
7.1	EN 50171 edition 2 [project 23607]: “Central safety power supply systems”. Progress of work from TC 22X/WG 7.	
7.2	EN 61204-3 [60435] “Low voltage power supplies, d.c output – Part 3: Electromagnetic compatibility (EMC)” Progress of work from IEC/SC 22E/MT 5.	CLC/TC22X/Sec0178/RV

	<p>TC 22X discussed the Results on Vote (RV) documents regularly posted on the Collaboration Tool that are not really for interest. TC 22X decides to no more prepare any RV document for publication on the Collaboration tool. These RV documents include the Collection of Comments issued from the Parallel process with IEC and include TC 22X Secretariat reply. When useful because of specific European interest, a RV document with specific European answer could be published on our Collaboration tool.</p> <p>Decision 11 (22X-20-D11): Except because of specific European needs, TC 22X will no more publish on CENELEC Collaboration Tool any Result of Voting (RV documents) for standards developed in parallel at IEC level.</p>	
7.3	<p>EN 61204-7 (2006) [project 60436] "Low voltage power supplies, d.c output – Part 7: Safety requirements" Progress of work from IEC/SC 22E/MT 7.</p>	CLC/TC22X/Sec0182/RV
7.4	<p>EN 62909-1 (2015) [project 61135] "Bi-directional grid connected power converters – Part 1: General requirements". Progress of work from IEC/SC 22E/PT 62909.</p>	CLC/TC22X/Sec0192/RV
8	Review of High-Voltage Direct Current (HVDC) standardization activities	
	From the IEC/SC 22F European Liaison Officer: Mr. Colin DAVIDSON, Reporting, based on decisions and work-program from the IEC/SC 22F.	
	Our IEC/SC 22F European Liaison Officer (Mr. Colin DAVIDSON) is excused and Mr. Gerard Conway (GB-NC Delegate) could report on the IEC/SC 22F (HVDC) activities on behalf of Mr. Davidson. He reported about the complain from IEC/SC 22F about the Scope of IEC 62477-2. As written today, the Scope of the draft 62477-2 could cover the "in-door" or "outdoor" equipment managed by IEC/SC 22F.	
8.1	<p>EN 60700-2:2015 [project 60318] "Thyristor valves for high voltage direct current (HVDC) power transmission – Part 2: Terminology" IEC 60700-2 has been published on 2016-06-17. Progress of work from IEC/SC 22F</p>	CLC/TC22X/Sec0193/RV
8.2	<p>CLC/TR 60919-2:2010/prA1[60947] "Performance of high-voltage direct current (HVDC) systems with line-commutated converters – Part 2: Faults and switching." Progress of work from IEC/SC 22F/MT 11</p>	
8.3	<p>EN 61803 :1999 /FprA2 :2015 [project 60319] "Determination of power losses in high-voltage direct current (HVDC) converter stations with line-commutated converters" Progress of work from IEC/SC 22F/MT 14</p>	CLC/TC22X/Sec0183/RV
8.4	<p>EN 61954:2011/prA2 [project 61855] "Static VAR compensators (SVC) - Testing of thyristor valves" Progress of work from IEC/SC 22F/MT 10</p>	
8.5	<p>EN 61975:2010/ FprA1: 2015 [project 60322] "High-voltage direct current (HVDC) installations - System tests" Progress of work from IEC/SC 22F/MT 27</p>	
8.6	<p>EN 62501:2009/prA2 [Project 63053] "Voltage sourced converter (VSC) valves for high-voltage direct curent (HVDC) power transmission - Electrical testing" Progress of work from IEC/SC 22F/MT 22</p>	
8.7	<p>EN 62751-1:2014/prA1 [project 63062] "Determination of power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems - Part 1: General requirements" Progress of work from IEC/SC 22F/MT 31</p>	
8.8	<p>EN 62927:2016 [project 62455] "Voltage sourced converter (VSC) valves for static synchronous compensator (STATCOM) - Electrical Testing" Progress of work from IEC/SC 22F/WG 30</p>	
9	EMC and power electronic systems	

	<p>Dr. Benno Weis reported about some EMC aspects: He said that IEC/CISPR-H deals with emission limits for DC ports as suggested requirement in the Normative part. These currently “proposed requirements” could become Normative Requirement for the next edition. See document CIS/H/311A/CDV. At the end of discussion, it is considered that our industry has not such a need for emission limits of equipment for DC Power port in Industrial application.</p> <p>Recommendation 4 (22X-20-R4): TC 22X recommends the NC Delegates to discuss this topic at their NC level and to agree with proposal for a Negative vote, when possible. TC 22X experts are invited to become part of CIS/H membership for participation to discussions and Votes’ process.</p>	
9.1	Information from IEC/TC 22 EMC activities within IEC/ACEC:	
9.2	Progress and Liaison with IEC/CISPR-B: Revision of CISPR 11 ed.6 Reporting from the CISPR-B Plenary Meeting in Hangzhou (CN) on 2016-11-01.	CISPR/B/664/DA
9.3	Information from IEC/SC 77A: (WG1; WG6; WG8) IEC/WG 8 & EU Professional Association of Manufacturers (CEMEP): feedback on EMC in frequency band 9 kHz < F < 150 kHz, and from European organisations Esmig/Eurelectric “EMI Focus Group”.	22/271/INF
	Dr. Benno Weis reported about the current situation on the topic. Agreement is obtained for the Compatibility level in the frequency range 2 kHz < F < 30 kHz and a compromise is obtained between Option A & B for the frequency range 30 kHz < F < 150 kHz.	
10	Miscellaneous	
10.1	Reporting from the last Cenelec-JISC information exchange on (PDS-WG): - Cenelec TC 22X and JISC reporting. No Report for 2016. Japanese proposal for Disbanding Cenelec-JISC PDS-WG.	e-mail exchange 2016-12-05
	The topic for maintaining CLC-JISC/PDS-WG is discussed and TC 22X agreed on the Japanese proposal. Decision 12 (22X-20-D12): TC 22X decides that CLC-JISC/PDS-WG can be disbanded.	
11	Any other business	
	No other business were suggested	
12	Close of the meeting	
	TC 22X Chairman, Dr Benno Weis, closed the meeting at 6 p.m. and thanked all National Body Delegates and attendees for their participation.	

Annex A

Attendance list of the **20th Plenary Meeting CLC/TC 22X**, held in Brussels, Belgium, on 2016-12-08:



COMITE EUROPEEN DE NORMALISATION ELECTROTECHNIQUE
EUROPEAN COMMITTEE FOR ELECTROTECHNICAL STANDARDIZATION
 Comité Technique CLC/TC22X : Electronique de puissance
 Technical Committee CLC/TC22X : Power Electronics

Brussels, Belgium, 8th December 2016

20th Plenary Meeting CLC/TC22X

Attendance List			
Name	National Committee	Function	Signature
Weis Benno	DE	TC 22X Chairman & WG6 Convenor	
Patra Martial	FR	TC 22X Secretary	
Reynaud Nathalie	FR	TC 22X Assistant Secretary	
Vigneron Catherine	CCMC	TC 22X Programme Manager	
Brun Eric	FR	Member WG4 Convenor	By tel. Conf.
Conway Gerard	GB	Member	
Griepentrog Gerd	DE	Delegate	
Hemmelmayer Thomas	AT	Head of AT delegation	
Hitzemann Reiner	DE	Member WG7 Convenor	excused
Holm Preben	DK	Member WG5 Convenor	
Joachim Heribert	DE	Head of DE delegation	
Laible Holger	DE	NC Delegate	
Lindsay Iain	GB	NC Delegate	
Nielsen Albert Ole	DK	NC Delegate	

Pointner Stefan	AT	NC Delegate	