

NEMA IEC INVOLVEMENT – 05 September 2012

Page heading: NEMA IEC/ISO Standards

Title: NEMA involvement in IEC and ISO

Applicable sections: NEMA-wide

Abstract: This table provides a list of those IEC and ISO committees in which NEMA members and staff are participating. It provides the name and number of the IEC committee, NEMA sections with interest in the committee, identification of any funded delegates to the committee [particularly working groups], NEMA standards related to the scope of the committee, the name and contact information for the Technical Advisor [chairman] and Deputy Technical Advisor [if any] who lead the US activity relating to that committee, and who sponsors the Technical Advisory Group [the parallel US National Committee group which develops the US position to that IEC committee.

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	IEC Committee	Primary NEMA Contact/Staff	NEMA Delegate/Expert	Related NEMA, ANSI, and Other Standards	Technical Advisor/ Deputy Tech. Advisor	USNC Advisory Group/Sponsor
1.	Advisory Committee on Safety - ACOS Chairman - B.I. Folker - Sweden Secretariat - Central Office	1 IS – Industrial Control and Systems Bill Buckson	Larry Farr/Eaton			
2.	CISPR B - Interference Relating Industrial, Scientific, and Medical Radio Frequency Apparatus Chairman - M.C. Vrolijk UK Secretariat – M. Okamura - Japan	NEMA Technical Services			FCC Laboratory 7435 Oakland Mills Road Columbia, MD 21046 301/344-3411 x206	Special Group of Advisors - ASC C63
3.	IEC – Terminology Chairman - Prof. Dr. Ing Carlo Angelo BORGHI- Italy Secretariat - Mrs Nuria BARRIO (Spain)	None			Dr. Ralph M. Showers, Ph.D. The Moore School of Electrical Engineering/D2 University of Pennsylvania 200 South 33rd Street Philadelphia, PA 19104-6390 (215) 898-8123	IEEE
4.	IEC <u>TC 2</u> - Rotating Machinery Chairman - Prof. Dr. Bernd PONICK (DE) Secretariat - - Nick BRADFIELD- UK	1 MG - Motors and Generators Bill Buckson	Bill Finley – Siemens	NEMA MG 1	Bill Finley – Siemens/Paul Anderson Toshiba	ASC C50- Rotating Electrical Machinery NEMA International Standardization Group Sponsor - NEMA
5.	IEC TC 2 MT 2 - Noise levels of Rotating Electrical Machinery	1 MG - Motors and Generations Bill Buckson	Bill Finley – Siemens	NEMA MG 1		
6.	IEC TC 2 MT 3 - Terminal markings	1 MG - Motors and Generations Bill Buckson	Bill Finley – Siemens	NEMA MG 1		
7.	IEC TC 2 MT 5 - Mechanical Ix configurations	1 MG - Motors and Generations Bill Buckson	Bill Finley – Siemens	NEMA MG 1		

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8.	IEC TC 2 MT 6 -Turbo generators	1 MG - Motors and Generations <u>Bill Buckson</u>	Mr. John D. AMOS (Expert)	ANC 50-41		
9.	IEC TC 2 MT 7 -Vibration	1 MG - Motors and Generations <u>Bill Buckson</u>	Bill Finley - Siemens	NEMA MG 1		
10.	IEC TC 2 MT 9- Converter fed AC motors	1 MG - Motors and Generations <u>Bill Buckson</u>	Bill Finley - Siemens Energy & Automation	NEMA MG 1		
11.	IEC TC 2 MT 10 - Functional evaluation of insulation systems	1 MG - Motors and Generations <u>Bill Buckson</u>	George GAO (Expert)	NEMA MG 1		
12.	IEC TC 2 MT 11 -RIC engine driven generators	1 MG - Motors and Generations <u>Bill Buckson</u>				
13.	IEC TC 2 MT 12 - Excitation systems for synchronous machines Revision of 60034-16	1 MG - Motors and Generations <u>Bill Buckson</u>		NEMA MG 1		
14.	IEC TC 2 MT 13 - Refurbishment	1 MG - Motors and Generations <u>Bill Buckson</u>	Chuck YUNG (Expert)	NEMA MG 1		
15.	IEC TC 2/WG 12 - Revision of Publication 34-1	1 MG - Motors and Generators <u>Bill Buckson</u>	Robert Bartheld	NEMA MG 1	R.G. Bartheld Bill Finley (Expert)	
16.						
17.	IEC TC 2/WG 28 - Performance as determined by tests	1 MG - Motors and Generations <u>Bill Buckson</u>	Robert Bartheld Bill Finley	NEMA MG 1		
18.	IEC TC 2/WG 29 -Partial discharge measurements	1 MG - Motors and Generations <u>Bill Buckson</u>	George Gao			
19.	IEC TC 2/WG 30 - Stepping and servo motors	1 MG - Motors and Generations <u>Bill Buckson</u>				
20.	IEC TC 2/WG 31 - Efficiency Classes	1 MG - Motors and Generations <u>Bill Buckson</u>	Bill Finley	NEMA MG 1		

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21.	IEC TC 3 – Information Structures Documentation and Graphical Symbols Chairman - Hans Brückner - Germany Secretariat - P.A. Svensson – Sweden	1 IS - Industrial Control and Systems Ken Gettman	John Seylaz - Automatic Switch Company	ANSI/IEEE 268 (1982), ANSI Y32.2	vACANT	Item Specific - IEEE SCC 11.1-11.11 Sponsor - IEEE
22.	IEC TC 3 SC 3B – Documentation	1IS Div 8				
23.	IEC TC 3 SC 3C – Graphical Symbols for Use on Equipment	1IS DIV 8				
24.	IEC TC 3 SC 3D – Data Sets for Libraries	1IS DIV 8			VACANT	
25.	IEC TC 4 - Hydraulic Turbines Chairman - Bernard MAHE - Canada Secretariat - R. Arseneault - Canada	Steve Griffith			James Walsh Rennasonic 372 Hayway Road East Falmouth Ma 02536-4511 508 457 1215 jim.walsh@rennasonic.com	
26.	IEC TC 5 – Steam Turbines Stand-by	8SM				
27.	IEC TC 7 – Overhead Electrical Conductors Chairman - E. Ghannoum - Canada Secretariat - Mr. Qiliang YING - China	7RV				
28.	IEC TC 8 - Standard Voltages Current Ratings and Frequencies Chairman – Mr. Richard Schomber - France Secretariat - Giovanni VALTORTA – Italy	NEMA Technical Services - Ken Gettman		ANSI C84.1	Co-TA Thomas Basso National Renewable Energy Lab (303) 275-3753 FAX: (303) 275-3835 E-Mail: Thomas_basso@nrel.gov Co-TA Joseph L. Koepfinger CEO Koepfinger Consulting 119 Windy Willows Drive Coraopolis, PA 15108 (412) 264-6148 FAX: (412) 260-9620 E-Mail: joseph_l_koepfinger@msn.com	Special Group of Advisors with Liaison to: 1)ASC C84-Preferred Voltage Ratings for AC Systems and Equipment 2)ASC C92-Insulation Coordination Sponsor – NEMA

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29.	IEC TC 9 – Electric Railway Equipment Chairman - Mr. Franco CAVALIERE- Italy Secretariat - Monsieur P.H. DESVIGNES - France	1IS 8HV			Louis Sanders Director, Research & Technology American Public Transportation Association 1666 K Street Washington, D.C. 20006 (202) 496-4886 <u>Deputy Tech Advisor</u>	
30.	IEC TC 10 – Fluids for Electrotechnical Applications Chairman - Dr. Raymond BARTNIKAS (CA) Secretariat – Massimo Pompili Italy	8ST			Randy Stebbins SD Myers Tallmadge, OH 44278 (330) 630-7000	
31.	IEC TC 11 – Overhead Lines Chairman – Romeo RENDINA - Italy Secretariat - Ms. Tea Mihic – South Africa	8CC 8HV 8LA 8TP			Edwin J. "Tip" Goodwin, III Manager, Technology Delivery EPRIsolutions 100 Research Dr, Haslet, TX 76052 (817) 234-8200	
32.	IEC TC 13 - Equipment for Electrical Energy Measurement and Load Control Chairman - Mr Gy Ponyai - Hungary Secretariat - Mr. Zoltan Szabo - Hungary	8 EI - Electrical Measuring Equipment Paul Orr		C12 SERIES	Scott Weikel Elster Solutions 208 S. Rogers Lane Raleigh, NC 27610 (919) 212-4866	ASC C12 Electricity Metering Sponsor NEMA
33.	IEC TC 14 - Power Transformers Chairman - Paul JARMAN - UK Secretariat - Nick BRADFIELD - UK	8 TP - Transformer Steve Griffith		NEMA ST 1, ST 20 UL 506, 1561, 1585	Philip J. Hopkinson President & CEO HVOLT Inc. 3704 High Ridge Road Charlotte, NC 28270 (704) 846-3290	Special Group of Advisors
34.	IEC TC 15 – Standards on Specifications for electrical Insulating Material Chairman - K.A. Buckingham - UK Secretariat J. A. Gauthier –USA	Div 6 - Insulating Materials Jean Johnson		UL 746, 1446 ANSI/NEMA RE 2 LI 1-1989	Robert Smail Industrial Laminates Norplex Inc. 665 Lybrand St. Postville, IA 521 Mailing: N5331 County S Onalaska, WI 54650 (608) 781-5520	ASTM Committee DO9.15 - International Standards and Special Group of Advisors
35.	IEC TC 15/MT 1 - Inorganic (ceramic and glass) Insulating Materials	Div 6 – Insulating Materials Jean Johnson				
36.	IEC TC 15/MT 10 - Combined Flexible Materials	Div 6 – Insulating Materials Jean Johnson				

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37.	IEC TC 15/MT 11 – Mica Products	Div 6 – Insulating Materials Jean Johnson				
38.	IEC TC 15/MT 3 - Plastic Films	Div 6 – Insulating Materials Jean Johnson				
39.	IEC TC 15/WG 5 - Specification for Flexible Insulating Sleeving for Electrical Purposes	Div 6 – Insulating Materials Jean Johnson				
40.	IEC TC 15/WG 6 – Rigid Fibrous Reinforced Laminates for Electrical Purposes	Div 6 – Insulating Materials Jean Johnson	N. Alan Johnson - Convenor			
41.	IEC TC 15/WG 7 - Resins and Varnishes	Div 6 – Insulating Materials Jean Johnson				
42.	IEC TC 15/SC 15C/WG 8 – Pressure Sensitive Adhesive Tapes	Div 6 – Insulating Materials Jean Johnson				
43.	IEC TC 15/WG 9 - Cellulosic Materials	Div 6 – Insulating Materials Jean Johnson				
44.	IEC TC 15/WG10 – Combined Flexible	Div 6 – Insulating Materials Jean Johnson				
45.	IEC TC 17 - Switchgear and Controlgear Chairman - Monsieur Denis DUFOURNET - France Secretariat - A. Bosma - Sweden	1 IS – Industrial Control and Systems Bill Buckson 8 SG – Switchgear Ken Gettman	Larry Farr Westinghouse Electric Corp. P.O. Box 5715 Asheville, NC 28813 704/687-3027		Switchgear T. Tobin S & C Elec. Co. 6601 N. Ridge Bl. Chicago, IL 60626 773/338-1000 Deputy Tech. Advisor Ken Gettman - NEMA 1300 N. 17 th Street Rosslyn, VA 22209 703-841-3254	Special Group of Advisors Sponsor - NEMA
46.	IEC TC 17/WG 1 - High-Voltage Contactors and Starters	1 IS – Industrial Control and Systems Bill Buckson	Larry Farr Westinghouse Electric Corp. P.O. Box 5715 Asheville, NC 28813 704/687-3027	ICS 3, Part 2		

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47.	IEC TC 17/SC 17A - High-Voltage Switchgear and Controlgear Chairman - Denis DUFOURNET - France Secretariat - A. Bosma - Sweden	8 SG – Switchgear Ken Gettman	Larry Farr	ANSI C 37	<u>Switchgear</u> Larry Farr (see TC 17) Controlgear <u>Deputy Tech. Advisor</u> Ken Gettman - NEMA (see IEC TC 17)	Special Group of Advisors Sponsor - NEMA
48.	IEC TC 17/SC 17A/WG52 – Maintenance of 62271-105	8 SG – Switchgear	Bill Long – Eaton (Convenor)			
49.	IEC TC 17/SC 17A/MT 28 – Revision of 62271-101	8 SG – Switchgear	Kirk Smith – Eaton Ken Gettman - NEMA			
50.	IEC TC 17/SC 17A/MT 30 – 62271-107	8 SG – Switchgear	B.T. Steinbrecher – Cooper Power Ken Gettman – NEMA			
51.	IEC TC 17/SC 17A/MT 31 – 62271-108	8 SG – Switchgear	Tom Tobin – S&C Electric Ken Gettman – NEMA			
52.	IEC TC 17/SC 17A/MT 32 – Maintenance of 61233	8 SG – Switchgear	Kirk Smith – Eaton Ken Gettman – NEMA			
53.	IEC TC 17/SC 17A/MT 33 – Maintenance of 61166	8 SG – Switchgear	Ken Gettman – NEMA			
54.	IEC TC 17/SC 17A/MT 34 – Maintenance of 60694 (62271-1)	8 SG – Switchgear	Larry Farr – Eaton Carl Schneider – Schneider Electric Dave Stone – Cooper Consultant Ken Gettman – NEMA			
55.	IEC TC 17/SC 17A/MT 36 – Maintenance of 62271-100	8 SG – Switchgear	Bill Long – Eaton Ken Gettman - NEMA			
56.	IEC TC 17/SC 17A/MT 37 – Revision of 60265-2 (new 62271-104)	8 SG – Switchgear	Carl Reigart – Ferraz Shawmut			
57.	IEC TC 17/SC 17A/MT38 – Revision of 60518 (new 62271-301)	8 SG – Switchgear	Ron Lai – FCI James Zahnen – T&B			
58.	IEC TC 17/SC 17A/MT 39 – Revision of 61634 (new 62271-303)	8 SG – Switchgear	David Giegel- Mitsubishi			
59.	IEC TC 17/SC 17A/MT 40 – Revision of 62271-310	8 SG – Switchgear	Ken Gettman – NEMA			
60.	IEC TC 17/SC 17A/PT 42 – Capacitive current switching of air insulated disconnectors	8 SG – Switchgear	Larry Farr – Eaton Carl Schneider – Schneider Electric			
61.	IEC TC 17/SC 17A/PT 43 – Making capacity of earthing switches	8 SG – Switchgear	Larry Farr – Eaton Carl Schneider – Schneider Electric Kirk Smith – Eaton Ken Gettman – NEMA			
62.	IEC TC 17/SC 17A/MT 45 – 62271-103	8 SG – Switchgear	Kirk Smith – Eaton Carl Reigart – Ferraz Shawmut			
63.	IEC TC 17/SC 17A/MT 47 – 62271-111	8 SG – Switchgear	Dave Stone – Cooper Consultant			
64.	IEC TC 17/SC 17A/PT 48 – High Speed Earthing Switch	8 SG – Switchgear	none			
65.	IEC TC 17/SC 17A/PT 50 – Application guide to 62271-1 and -100 based on CIGRE TB 304 and 305	8 SG – Switchgear	Larry Farr – Eaton Kirk Smith - Eaton			

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66.	IEC TC 17/SC 17A/MT 51 – Maintenance of 62271-105	8 SG – Switchgear	Charles Ball – S&C Electric Eldridge Byron – Schneider Electric			
67.	IEC TC 17/SC 17A/PT 52 – IEC C37.013	8 SG – Switchgear	Bill Long - Eaton			
68.	IEC TC 17/SC 17A/PT 62271-302	8 SG – Switchgear	Frank Blalock – Siemens Dave Stone – Cooper Consultant			
69.	IEC TC 17/ SC 17B SC 17B - Low-voltage Switchgear and Controlgear Chairman - Stefan Kjellnas - Sweden Secretariat - Joseph BRIANT (FR)	1 IS – Industrial Control and Systems Ken Gettman Bill Buckson Ken Gettman		NEMA AB 1, KS 1 UL 98, 489, 508, and 869 ICS 1, 2, 3, 4, 5, 6, 10	Philip M. Piqueira General Electric 41 Woodford Ave. Plainville, CT 06062 Ph: 1-203-747-7234 Fax: 1-203-747-7797 <u>Deputy Tech. Advisor</u> Ken Gettman - NEMA (see IEC TC 16)	Special Group of Advisors Sponsor - NEMA
70.	IEC TC 17/SC 17B/WG 1 - Clearances and Creepage Distances	1 IS – Industrial Control and Systems Bill Buckson Ken Gettman	J. Wright – Siemens Ken Gettman – NEMA	NEMA ICS 1 UL 508		
71.	IEC TC 17/SC 17B/WG 2 -Contactors, Starters and Similar Equipment	1 IS – Industrial Control and Systems Bill Buckson Ken Gettman	<u>1 IS</u> Bill Buckson – NEMA Jim Wright – Siemens Ken Gettman – NEMA Richard Schneider – Josslyn/Clark Elizabeth Kerr – Cummins Bill Finley - Siemens	NEMA ICS 2 UL 508		
72.	IEC TC 17/SC 17B/WG 3 - Low- Voltage Control Switches	1 IS – Industrial Control and Systems Ken Gettman Bill Buckson	E. Fooks - Rockwell Wayne Wielebski – Rockwell Bill Buckson – NEMA Jeff Jurs - Omron	NEMA ICS 5 ICS 12 UL 508		
73.	IEC TC 17/SC 17B/WG 10 - Constructional Requirements for Equipment and Enclosures, Including Requirements for Insulating Materials	1 IS - Industrial Control and Systems Ken Gettman	Ken Gettman – NEMA	ICS 1, ICS 6 AB 1 KS 1 UI 746		
74.	IEC TC17/SC 17B/MT 11 – Review 60947-1	1 IS & 5LVDE	Elik Fooks – Rockwell	UL 508, UL 60947-1		

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75.	IEC TC 17/SC 17B/MT 12 - Air-break Switches, Air-break Disconnectors, Fuse Combination Units, and Similar Equipment	5LVDE (KS) – Switch Gerard Winstanley 1 IS – Industrial Control and Systems Bill Buckson Ken Gettman	Phil Piqueira – General Electric Bill Buckson – NEMA Ken Gettman – NEMA	NEMA KS 1 UL 94(?)		
76.	IEC TC 17/SC 17B/MT 13 – EMC	1 IS – Industrial Control and Systems Bill Buckson Ken Gettman	Patrick Duffy – Rockwell James Lagree – Eaton Ken Gettman - NEMA			
77.	IEC TC 17/SC 17B/MT 14 – Terminal Blocks and Terminals of Appliances	1 IS – Industrial Control and Systems Bill Buckson Ken Gettman 8CC Vince Baclawski	K.B. Boegli - Phoenix Contact Inc. James Hubacek - Rockwell Bill Buckson – NEMA	NEMA ICS 4 UL 486/UL 60947-7-1, UL 60947-7-2, UL60947-7-3		
78.	IEC TC 17/SC 17B/MT 15 - Circuit-Breakers and Similar Equipment	5LVDE (AB) – Molded Case Circuit Breaker Gerard Winstanley Ken Gettman	<u>5 AB</u> P.M. Piqueira - General Electric John Young – Siemens James Lagree – Eaton Ken Gettman – NEMA	NEMA AB 1 UL 489		
79.	IEC TC 17/SC 17B/PT 61915-2	1IS & 5LVDE	Wayne Wielibski - Rockwell			
80.	IEC TC 17/SC 17B/PT 62226	5LVDE (KS)	<u>None</u>			
81.	IEC TC 17/SC 17C/SC 17C - High-Voltage Enclosed Switchgear and Controlgear Chairman - Serge Theoleyre France Secretariat - Hermann Koch - Germany	8 SG - Switchgear Ken Gettman Ken Gettman		C37	<u>Switchgear</u> Ted. A Burse Powell Industries, Inc. Powell Electrical Mfg. Co. Inc. 8550 Mosley Houston, TX 77075 (713) 948-4599 <u>Controlgear</u> <u>Deputy Tech. Advisor</u> Ken Gettman - NEMA (see IEC TC 16)	Special Group of Advisors Sponsor - NEMA
82.	IEC TC 17/SC 17C/AG 20 – High voltage	8 SG - Switchgear Ken Gettman	None			
83.	IEC TC 17/SC 17C/AG 21 – Low voltage	8 SG - Switchgear Ken Gettman	None			
84.	IEC TC 17/SC 17C/AHG 2 – Conformity assessment for ranges of MV SG assemblies	8 SG - Switchgear Ken Gettman	None			

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85.	IEC TC 17/SC 17C/WG 11 – Communication for HV SG assemblies	8 SG - Switchgear Ken Gettman	Ken Gettman – NEMA			
86.	IEC TC 17/SC 17C/MT 14 – Maintenance of MV standards (60298, 61330, etc.)	8 SG - Switchgear Ken Gettman	Larry Farr – Eaton Carl Schneider – Schneider Electric Ken Gettman – NEMA			
87.	IEC TC 17/SC 17C/MT 15 – Maintenance of HV standards (60517, etc.)	8 SG - Switchgear Ken Gettman	Ken Gettman – NEMA			
88.	IEC TC 17/SC 17C/MT 16 – Revision of 61171-203	8 SG - Switchgear Ken Gettman	Phil Bolin – Mitsubishi John Brunke – Siemens David Giegel – Mitsubishi Ken Gettman – NEMA			
89.	IEC TC 17/SC 17C/MT 18 – Revision of 62271-305 (old 60859)	8 SG - Switchgear Ken Gettman	None			
90.	IEC TC 17/SC 17C/MT 19 – Revision of 60932 (new 62271-304)	8 SG - Switchgear Ken Gettman	Ken Gettman – NEMA			
91.	IEC TC 17/SC 17C/MT 22 – Revision 62271-2 (new 62271-207)	8 SG - Switchgear Ken Gettman	None			
92.	IEC TC 17/SC 17C/WG 23 – EMF in HV SG & CG assemblies	8 SG - Switchgear Ken Gettman	Ken Gettman – NEMA			
93.	IEC TC 17/SC 17C/MT 24 – Rigid HV GI transmission lines for 72.5kV and above	8 SG - Switchgear Ken Gettman	None			
94.	IEC TC 17/SC 17C/MT 25 – Voltage presence indicating systems	8 SG - Switchgear Ken Gettman	None			
95.	IEC TC 17/SC 17C/WG 26 – Seismic qualification of ME SG & CG 1kV to 52kV	8 SG - Switchgear Ken Gettman	None			

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96.	IEC TC 17/ SC 17D SC 17D - Low-voltage Switchgear and Controlgear Assemblies Chairman - Dilwyn D. Hier - UK - Secretariat - Dipl.-Phys. Guido von Trentini - Germany	1 IS - Industrial Control and Systems Bill Buckson 5 LVDE – Gerard Winstanley Ken Gettman	G. E. Heberlein Kevin Lippert	NEMA BU 1, PB 1, and PB 2, ICS 3 UL 67, 231, 857, 869, and 891	<u>Switchgear</u> Kelvin J. Lippert Manager, Codes & Standards Eaton Corp. 1000 Cherrington Parkway Moon Township, PA 15108 (412) 893-3763 <u>Controlgear</u> G. E. Heberlein - Rockwell 4810 Dover Street Everett, WA 98203 (425) 347-3676 <u>Deputy Tech. Advisor</u> Carl Schneider Square D Co. Schneider Electric 330 Weakley Lane Smyrna, TN 37167 (615) 459-5859 Ken Gettman Ken Gettman - NEMA (see IEC TC 16)	Special Group of Advisors Sponsor - NEMA
97.	IEC TC 17/SC 17D/MT 11 - General Problems; Maintenance of 60439-1, 60890, 61117, 61641, 61439-1	1 IS 5 LVDE	Erich Heberlein – Rockwell Kevin Lippert – Eaton			
98.	IEC TC 17/SC 17D/MT 12 – Maintenance 60439-2 Busbar trunking systems	5 BU	Carl Schneider – Schneider Rodney West – Schneider			
99.	IEC TC 17/SC 17D/MT 13 – Maintenance 60439-3 Distribution Boards	5 PB	None			
100.	IEC TC 17/SC 17D/MT 14 – Maintenance 60439-4 Construction sites	5 LVDE	None			
101.	IEC TC 17/SC 17D/MT 15 – Maintenance 62208 Empty Enclosures	5 EN	Kevin Lippert – Eaton Jim Wiseman – Schneider			
102.	IEC TC 17/SC 17D/MT 16 – Maintenance 60439-5 Assemblies for power distribution	5 LVDE	Ken Gettman - NEMA			
103.	IEC TC 17/SC 17D/JWG 1 – Device substitution	1IS, 5LVDE	Erich Heberlein – Rockwell Kevin Lippert – Eaton Jim Wright – Siemens Ken Gettman – NEMA			
104.	IEC TC 18/ TC 18 – Electrical Installations of Ships and of Mobile and Fixed Offshore Units Chairman – Dilwyn Hier - UK Secretariat – Guido Von Trentini - Germany	5BU			Rocco Lofaro, Jr. RL Consulting, LLC 6305 Musket Ball Drive PO Box 1327 Centreville, VA 20120-9998 (703) 830-9810	
105.	IEC TC 18A SC18A – Cables and Cable Installations Chairman – Jan Schutten - Netherlands Secretariat – Yannick Goutille - France	7HW 7RV/VR	Rudy Bright – AmerCable		Rocco Lofaro, Jr	

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106.	IEC TC 20 TC 20 - Electrical Cables Chairman - Victor A.A. BANKS - GB Secretariat - Helmut Myland - Germany	7WC1 – Building Wire and Cable [RF1] 7WC2 – Power and control Cable 7WC4 – Flexible Cords Ryan Franks (ryan.franks@nema.org) – TAG Secretary			TA J Richard Barker General Cable 5339 Wesley Road Rocklin, CA 95765 (916) 632-9295	
107.	IEC TC 20/WG 16	US Expert: Sam Friedman				
108.	IEC TC 20/WG 17	US Expert: Sam Friedman				
109.	IEC TC 20/WG 18	US Expert: Richard Barker				
110.	IEC TC 20/WG 19	US Expert: Ronald Lai				
111.	IEC TC 21 – Secondary Cells and Battery Chairman – Friederick Kramm - Germany Secretariat - Yves BOUDOU (FR)				Technical Advisor John H. Hoover Douglas Battery 500 Battery Drive PO Box 12159 Winston Salem, NC 27107 336-650-7220	
112.	IEC TC 21/SC 21A SSC 21 ASCC 21A - Alkaline Secondary Cells and Batteries Chairman – Secretariat - Pierre Fougere – France	3 DB - Dry Battery Andrej Moldoveanu		ANSI C18.2 UL 167, 168, 268, 924, 1023, 1236	Ramesh Shah Moltech Power Systems 3413 NW 26 th Terrace Gainesville, FL 32605 (352) 378-6642 Deputy Tech Advisor Dr. Steven P. Wicelinski Duracell Inc. Berkshire Corporate Park Bethal, CT 06801 203/731/6406	Special Group of Advisors
113.	IEC TC 22 TC 22 - Power Electronics Chairman - Albert WICK - Germany Secretariat - Dr. Jürgen Steinke - Switzerland	1 PE - Power Electronics Greg Winchester Ken Gettman			Technical Advisor Ken Gettman - NEMA (see IEC TC 16)	Special Group of Advisors Sponsor - NEMA

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114.	IEC TC 22/TC 22/PT 5- Semiconductor Power Converter Systems	1 PE - Power Electronics 1IS - Drives Greg Winchester Ken Gettman	Bill Burks – APC Bansi Patel – Eaton Dan Stewart – Rockwell Vijay Tendulkar – Onyx Ken Gettman – NEMA			Special Group of Advisors Sponsor - NEMA
115.	IEC TC 22/TC 22/PT 6 – Active Infeed Converter	1IS - Drives	None			
116.	IEC TC 22/SC 22E SC 22E – Stabilized Power Supplies Chairman – Robert Taylor - UK Secretariat - H. Dick van Zuylen - Switzerland	1 PE - Power Electronics Ken Gettman Greg Winchester				Special Group of Advisors Sponsor - NEMA
117.	IEC TC 22/SC 22FSC 22F – Power Electronics for Electrical Transmission and Distribution Systems Chairman – Ruifeng Gou, China Secretariat - Lev V. Travin - Russia	1PE				
118.	IEC TC 22/SC 22GSC 22G – Semiconductor Power Converters for Adjustable Speed Drive Systems Chairman - –Martial Patra - FR Secretariat – Kenneth Gettman - USA	1 IS - Industrial Control and Systems Ken Gettman		ICS 7	Daniel Stewart Rockwell Automation 6400 W. Enterprise Dr. Mequon, WI 53092 (262) 512-2607 FAX: (262) 512 8357 E-Mail: dstewart@ra.rockwell.com <u>Deputy Tech. Advisor</u> Ken Gettman Ken Gettman - NEMA (see IEC TC 16)	Special Group of Advisors Sponsor - NEMA
119.	IEC TC 22/SC 22G/WG 6 – Functional Safety	1 IS Industrial Control & Systems Ken Gettman				
120.	IEC TC 22/SC 22G/MT 7 – Drives EMC requirements	1 IS Industrial Control & Systems Ken Gettman	Dan Stewart – Rockwell	ICS 7		
121.	IEC TC 22/SC 22G/MT 9 - Adjustable Frequency A.C. Drive Systems	1 IS - Industrial Control and Systems Ken Gettman	Ken Gettman – NEMA	ICS 7		
122.	IEC TC 22/SC 22G/WG 10 – Drives Profiles	1 IS Industrial Control & Systems Ken Gettman	Rasvan Panaitescu – Siemens	ICS 7		
123.	IEC TC 22/SC 22G/MT 11 – Drives Safety Aspects	1 IS Industrial Control & Systems Ken Gettman	Dan Stewart – Rockwell	ICS 7		
124.	IEC TC 22/SC 22G/WG 11 – Voltage on Power Interface	1 IS Industrial Control & Systems Ken Gettman	Rasvan Panaitescu - Siemens Gary Skibinski - Rockwell			

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125.	IEC TC 22/SC 22G/WG6 – Adjustable speed electric drive system, functional safety	1 IS Industrial Control & Systems Ken Gettman	Dan Stewart - Rockwell	ICS 7		
126.	IEC TC 22/SC 22H SC 22H – Uninterruptible Power Systems Chairman – Per GRANDJEAN-THOMSEN - Australia Secretariat – Daniel Van Der Perre – France	1 PE - Power Electronics Greg Winchester	Rich Mazzoni		Rich Mazzoni Invensys, Power Systems Div P.O. Box 280 Necedah, WI 54646 (608) 565-5047 rich.mazzoni@bestpower.com	
127.	IEC TC 22/SC 22H/MT 4 -- Uninterruptible Power Systems	1PE- Power Electronics Greg Winchester	Bill Burks Rich Mazzoni			
128.	IEC TC 22/SC 22H/WG 2 -- Static Transfer Switches	1PE - Power Electronics Greg Winchester	Vijay Tendulkar			
129.	IEC TC 23/TC 23 - Electrical Accessories Dipl.-Ing. Claus-Dieter ZIEBELL (DE) Secretariat - Wim DE KESEL - Belgium	NEMA Technical Services Department Ken Gettman			Ken Gettman NEMA 1300 N. 17th St. Rosslyn, VA 22209 703/841-3254	Special Group of Advisors Sponsor - NEMA
130.	IEC TC 23/WG 6 – Installation couplers for permanent installation		Ken Gettman - NEMA			
131.	IEC TC 23/WG 8 – Electrical accessories for DC	Andrei Moldoveanu TAG Secretary	Dennis Oddsen – Hubbell James Osterbrock – Pass & Seymour		Dennis Oddsen TA Hubbell - Wiring Device Kellems 40 Waterview Dr Shelton, CT 06484	
132.	IEC TC 23/SC 23A SC 23A – Cable Management Systems” Chairman – Emmanuel Petit - France Secretariat – Alan Cooperr - UK	5 FB - Conduit Fittings Mike Leibowitz TAG Administrator 5 CT - Cable Tray Jean Johnson 5 RN - Steel Rigid Conduit and EMT Joel Solis 5 TC – Polymer Raceway Greg Winchester	Tim McNeive	NEMA FB 1 NEMA FG 1 NEMA VE 1 NEMA RN 1 ANSI C80.1 ANSI C80.3 ANSI C80.5 ANSI C80.6	Tim McNeive Thomas & Betts Corp. 8155 T&B Blvd. Memphis TN 38125 (901)252-5785	Special Group of Advisors Sponsor - NEMA

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133.	IEC TC 23/ SC 23B SC 23B - Plugs, Socket-Outlets and Switches Chairman - Bernard Cantini - France Secretariat - Cristiano MASINI – Italy	5 WD – Wiring Devices Andrei Moldoveanu	Dennis Oddsen - Hubbell Dave Lutz – Hubbell Robert Spehalski – Lutron	NEMA WD 6 NEMA WD 1 UL 498 UL 20	David L. Lutz - Hubbell Inc 1613 State Street Bridgeport CT 06605 203/337-3215 <u>Deputy Tech. Advisor</u> Dennis Oddsen TA Hubbell - Wiring Device Kellems 40 Waterview Dr Shelton, CT 06484	Special Group of Advisors Sponsor - NEMA 5WD Section - 23 B/C TAG NEMA 5-OS, for WG5 participation
134.	IEC TC 23/ SC 23C SC 23C - World-Wide Plug and Socket-Outlet Systems Chairman - Bernard Cantini - France Secretariat - -Xavier MONTFORT- Spain	5 WD – Wiring Devices Andrei Moldoveanu	R. Cressman – Consultant David Lutz (WG1, 2) – Hubbell Inc.		Charles Kurten Underwriters Laboratories Inc. 1285 Walt Whitman Rd. Melville, NY 11747-3081 (631)271-6200 x22244 <u>Deputy Tech. Advisor</u> David L. Lutz - Hubbell Inc 1613 State Street Bridgeport CT 06605 203/337-3215	Special Group of Advisors - Sponsor NEMA 5WD Section - 23 B/C TAG
135.	IEC TC 23/ SC 23E SC 23E - Circuit-Breakers and Similar Equipment for Household Use Chairman - Michel Dell'ova - France Secretariat - Giovanni CASSINELLI - Italy	5 AB - Molded Case Circuit Breakers Ken Gettman		NEMA AB 1 UL 489, 943, and 1077	<u>Circuit Breakers</u> John W. Young Siemens Energy & Autoation, Inc. 5400 Traingle Pkwy Norcross, GA 30092 770/326/2108 <u>GFCI's</u> R. H. Legatti - Technology Research Corp. 5250 140th AVE. NORTH Clearwater, FL 34620 813/535-0572 <u>Deputy Tech. Advisor</u> Thomas N. Packard Pass 7 Seymour/Legrand P.O. Box 4822 Syracuse, NY 13221 315/468/8126	Special Group of Advisors Sponsor – NEMA
136.	IEC TC 23/ SC 23E /WG 1 - Miniature Circuit-Breakers for Domestic and Similar Purposes	5 AB - Molded Case Circuit Breakers Ken Gettman	P. R. Andersen Square D Company John Young Siemens Energy & Automation			

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137.	IEC TC 23/SC 23E/WG 2 – Shock Hazard Protecting Devices	5 PP - Ground Fault Personnel Protection Andrei Moldoveanu Ken Gettman	5 PP Aaron Chase Leviton Ray Legatti - Technology Research Thomas Packard – Pass & Seymour/Legrand	UL943	GFCI's R. H. Legatti - Technology Research Corp. 5250 140th AVENUE NORTH Clearwater, FL 34620 813/535-0572	Sponsor NEMA 5PP - 23E/WG 2 TAG
138.	IEC TC 23/SC 23E/WG 5 - Circuit-Breakers for Equipment	5 AB – Molded Case Circuit Breakers Gerard Winstanley Ken Gettman	M.J. Scully - Potter and Bromfield			
139.	IEC TC 23/SC 23E/WG 6 - Residual Current Monitors for Household and Similar Installations	5 PP – Ground Fault Personnel Protection Andrei Moldoveanu Ken Gettman	R.H. Legatti - Technology Research (by correspondence)			
140.	IEC TC 23/SC 23E/WG 7 – Electric Vehicle Protection	5 PP – Ground Fault Personnel Protection Andrei Moldoveanu Ken Gettman	R.H. Legatti – Technology Research - Convenor			
141.	IEC TC 23/ SC 23F SC 23F – Connecting Devices Chairman - Christian Gossmann - Switzerland Secretariat - Eric Breuille – France	8 CC – Electrical Connector Paul Orr	Mark Johnson Tyco Electronics/AMP		Mark Johnson Tyco Electronics/AMP 2100 Paxton, MS 18-11 Harrisburg, PA 17105-3608 (717) 810-4653 <u>Deputy Tech. Advisor</u>	Special Group of Advisors Sponsor - NEMA
142.	IEC TC 23/SC 23F/MT 1 - Particular Specifications	8 CC – Electrical Connector Paul Orr	Mark Johnson Tyco Electronics/AMP			Special Group of Advisors Sponsor - NEMA
143.	IEC TC 23/SC 23F/WG 2 - Connecting Devices for Aluminum Connectors - Disbanded					
144.	IEC TC 23/SC 23F/WG 3 - Safety Group Function – Disbanded					
145.	IEC TC 23/SC 23F/WG 4 - Tool Applied Connectors – Disbanded					
146.	IEC TC 23/ SC 23G SC 23G – Appliance Couplers Chairman – P. R. Grant, Australia Secretariat – A. Elrud, Sweden	7 XC – Flexible Cords Eric Schweitzer			Rob Taylor Panel Components Corp. P.O. Box 115 Oskaloosa, IA 52577-0115 (515)673-5000 fax (515)673-5100 rtaylor@interpower.com	

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147.	IEC TC 23/ SC 23H SC 23H – Industrial Plugs and Socket Outlets Chairman - Gregory C. Nieminski - U.S Secretariat - Bertrand Doignon - France	5 PR - Pin and Sleeve Plug, Receptacle, and Connector Paul Orr TAG Administrator			Albert Pudims NEMA Consultant for Hubbell/Bryant Electric 185 Plains Road Milford, CT 06460-2465 203/331/4670 <u>Deputy Tech. Advisor</u> Steven Blais EGS Electrical Group 7770 N. Frontage Road Skokie, IL 60077-2634 847/763/6454	Special Group of Advisors
148.	IEC TC 23/ SC 23J SC 23J – Switches for Appliances Chairman – Thomas Korssell - Sweden Secretariat – Dipl.-Ing. Wolfgang Moeller - Germany	3DC			Ian McDonald UL 655 Scott Blvd. Santa Clara, CA 95050 (408) 876-2802 <u>Deputy Tech Advisor</u> Peter Walthers Omron Electronics Inc. 1 Commerce Drive Schaumburg, IL 60172-5302 847/8437852	
149.	IEC TC 25 TC 25 – Quantities and Units, and Their Letter Symbols Chairman - Prof. Anders J. Thor - Sweden Secretariat - Prof. Ing. Carlo Angelo Borghi - Italy	None			Ambler Thompson Nat'l Institute of Standards & Technology 100 Bureau Drive Stop 2150 Bldg. 820, Room 246 Gaithersburg, MD 20899 301/975/2333	
150.	IEC TC 26 TC 26 - Electric Welding Chairman - -- Patrick COUDERC - France Secretariat - Dipl.-Wirtsch. Ing. Eckhard Brügger – Germany	1 EW - Arc Welding Greg Winchester	Frank Stupczy – Lincoln Electric Wayne Hoffman – ESAB Welding & Cutting Products		Frank Stupczy Lincoln Electric Dave Werba Miller Electric	Special Group of Advisors Sponsor - NEMA
151.	IEC TC 27 TC 27 - Industrial Electroheating Equipment Chairman - Klaus SCHÜRING - Germany Secretariat - Tadeusz Skoczkowski - Poland Assistant Secretary Mrs. Elzbieta Slazynska - Poland	1 CM – Manufactured Graphite Greg Winchester	vacant		Ben C. Johnson Thermon Industries P.O. Box 609 San Marcos, TX 78667 512/3965802 Ex. 225	IEEE – Sue Vogel TAG Administrator

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152.	IEC TC 28 TC 28 - Insulation Coordination Chairman - Dr.-Ing. Karl-Heinz Weck - Germany Secretariat - - Jiansheng WANG - China			ANSI C92.1 ICS 1 UL 840	VACANT	1) Special Group of Advisors 2) ASC C92 - Insulation Coordination 3) IEEE Insulation Coordination WG Sponsor - NEMA
153.	IEC TC 29 TC 29 – Electroacoustics Chairman - K. Rasmussen - Denmark Secretariat - L.E. Nielsen - Denmark				Dr. Victor Nedzelnitsky NIST Div 822 South Bldg, 233, Room A147 Gaithersburg, MD 20899 301/9756638	
154.	IEC TC 31 TC 31 - Electrical Apparatus for Explosive Atmospheres Chairman - Jim Munro - Australia Secretariat - - Danny Peacock - UK	5 EN – Enclosures Gerard Winstanley			William Lawrence FM Approvals 1151 Boston-Providence Turnpike P.O. Box 9102 Norwood, MA 02062 (781) 255-4822 <u>Deputy Tech Advisor</u> A.W. Ballard Crouse-Hinds EMC P.O. Box 4999 Syracuse, NY 13221 315/477-5255	Special Group of Advisors
155.	IEC TC 31/ SC 31G SC 31G – Intrinsically – Safe Apparatus Chairman - Dr.-Ing. Ulrich Johannsmeyer - Germany Secretariat - L.C. TOWLE- UK	1IS 1MG 5FB			<u>Technical Advisor</u> Nicholas Ludham FM Approvals 1 Windsor Dials Windsor SL4 1RS United Kingdom 44 (0) 1753 750471 Fax: 44 (0) 1753 868 700 E-Mail: nicholas.ludham@fmapprovals.com <u>Deputy Tech Advisor</u> Ted H. Schnaare Rosemount Inc. 8200 Market Blvd, MS PK04 Chanhassen, MN 55344 952/949/5168	
156.	IEC TC 31/ SC 31J SC 31J - Classifications of Hazardous Areas and Installation Requirements Chairman - J.M. Ellis - UK Secretariat - Marino KELAVA Croatia	5 EN – Enclosures Gerard Winstanley			A.W. Ballard Crouse-Hinds EMC P.O. Box 4999 Syracuse, NY 13221 315/477-5255	Special Group of Advisors

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157.	IEC TC 32 TC 32 - Fuses Chairman – Dr.-Ing W.G.J. Rondeel - Norway Secretariat - René Deshayes - France	5 FU Paul Orr 8 SG – Switchgear Gary MacFadden TAG Administrator		ANSI C37	John Leach High Tech Fuses, Inc. 415 19 th St. Dr., SE Hickory, NC 28602 828/322-2860 <u>Deputy Tech. Advisor</u> William Travis Littlefuse, Inc. 800 E. Northwest Hwy Des Plaines, IL 60016 312/824-1188	ASC C37 - Power Switch - Switchgear Subcommittee on HV Fuses Sponsor - NEMA
158.	IEC TC 32/SC 32A SC 32A – High-Voltage Fuses Chairman - Dr.-Ing W.G.J. Rondeel - Norway Secretariat - Didier FULCHIRON - France	8 SG – Switchgear Gary MacFadden			John Leach High Tech Fuses, Inc. 415 19 th St. Dr., SE Hickory, NC 28602 828/322-2860 <u>Deputy Tech. Advisor</u> Frank J. Muench Cooper Power Systems 1045 Hickory Street Pewaukee, WI 53072 414/691-8310	ASC C37 - Power Switch - Switchgear Subcommittee on HV Fuses
159.	IEC TC 32/ SC 32B SC 32B – Low-voltage Fuses Chairman -René Deshayes - France Secretariat - Dr. Ing P. Brogl - Germany	5 FU - Fuse Paul Orr TAG Administrator	J.S. Wall – Gould G. Newcomb – GE	UL 198	Malcolm Allison Director of Technical Services FERRAZ SHAWMUT 374 Merrimac Street Newburyport, MA 01950 978/465-4240 <u>Deputy Tech. Advisor</u> Vincent Saporita Vice President, Technical Sales & Service Bussmann Division - Cooper Industries P.O. Box 14460 St. Louis, MO 63178 636/527-1608	ASC C97 - LV Fuses 600 V or Less Sponsor - NEMA
160.	IEC TC 32/ SC 32C SC 32C - Miniature Fuses Chairman - Geoffrey G. Bancroft - UK Secretariat – Jun Cai - China	5 FU – Fuse Paul Orr			William Travis Littlefuse, Inc. 800 E. Northwest Hwy Des Plaines, IL 60016 312/824-3024 <u>Deputy Tech. Advisor</u> Dan Giblin Cooper Bussmann P.O. Box 14460 St. Louis, MO 63178 636/527/1253	TIA – Judy Anderson TAG Administrator
161.	IEC TC 33 TC 33 - Power Capacitors Chairman – Esbjörn ERIKSSON - Sweden Secretariat - -Giancarlo TESTI Italy	8 CP – Capacitor Steve Griffith	Hui-Min Chai – GE	NEMA CP-1 IEEE 18	Hui-Min Chai GE 381 Upper Broadway Fort Edward, NY 12828 518-746-5718	

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162.	IEC TC 34 TC 34 - Lamps and Related Equipment Chairman - -- Lars NOREN - Sweden Secretariat – Bernd BORCHERT - UK	Randolph N. Roy	N/A		Dennis Holt Manager External Standards OSRAM SYLVANIA 100 Endicott Street Danvers, MA 01923 (978) 750-2317 Fax: (978) 646-2989 E-Mail: dennis.holt@sylvania.com DTA Randolph N. Roy	Special Group of Advisors Including SCs of ASC 78 and 81
163.	IEC TC 34/SC34A SC 34A - Lamps Chairman – Lawrence C. BARLING - UK Secretariat – Bernd BORCHERT - UK	Randolph N. Roy	N/A	ANSI C78, C79, C81	Dennis Holt Manager External Standards OSRAM SYLVANIA 100 Endicott Street Danvers, MA 01923 (978) 750-2317 Fax: (978) 646-2989 E-Mail: dennis.holt@sylvania.com DTA Randolph N. Roy	Special Group of Advisors
164.	IEC TC 34/ SC 34B SC 34B - Lamp Caps and Holders Chairman - -- Ingo ARNRICH - Germany Secretariat - H. van der HEIJDEN - Netherlands	Randolph N. Roy		ANSI C81	A. C. Rousseau - Philips Lighting Co. 1560 Lisbon Road Lewistown, ME 04240 207/784-3591 x246 Deputy Tech Advisor Greg Galluccio (Product Manger, Lighting Products Leviton Manufacturing Co. 59-25 Little Neck Pkwy Little Neck, NY 11362 (718) 281-6623 Fax: (718) 281-6136 E-Mail: ggalluccio@leviton.com	Special Group of Advisors
165.	IEC TC 34/ SC 34C SC 34C - Auxiliaries for Discharge Lamps Chairman - Cyril J. Daly - Austria Secretariat – Bernd BORCHERT – UK	Randolph N. Roy		78, 79, 81	Howard Wolfman, P.E. Osram Sylvania 800 Church Street Lake Zurich, IL 60047 847/726/6223 <u>Deputy Tech. Advisor</u> T. Erhardt Advance Transformer Co. 10275 West Higgins Road Rosemont, IL 60018-5603 (847) 390-5588 Fax: (847) 390-5264 E-Mail: bob.erhardt@philips.com	Special Group of Advisors

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166.	IEC TC 34/ SC 34D SC 34D - Luminaires Chairman - A.E.T. Glenny - UK Secretariat -Nick BRADFIELD – UK	Randolph N. Roy		NONE	Michael O'Boyle Mgr., Codes, Standards & Laboratoires Genlyte Group 631 Airport Rd. Fall River, MA 02720 (508) 646-3144 E-Mail: moboyale@genlyte.com <u>Deputy Tech. Advisor</u>	Special Group of Advisors
167.	IEC TC 35 TC 35 - Primary Cells and Batteries Chairman – M. Babiak - US Secretariat – - Shojiro KYOBASHI - Japan	3 DB - Dry Battery Andrei Moldoveanu		ANSI C18.1, C18.3	S. Keel Kelly Duracell North Atlantic Group 1551 Highway #9 Bypass Lancaster, SC 29720 803/283/5702 Deputy Tech Advisor Marc Boolish Energizer 25225 Detroit Road P.O. Box 45-0777 Westlake, OH 44145 (440) 835-7659	NEMA 3-DB
168.	IEC TC 36 TC 36 - Insulators Chairman – Prof. Dr.-Ing. Josef S. KINDERSBERGER - Germany Secretariat – Brian Lester – Australia	8 HV - High Voltage Insulator Steve Griffith		ANSI C29.1 thru .19 NEMA HV-2	R. Allen Bernstorf Hubbell Power Systems 8711 Wadsworth Rd. Wadsworth, OH 44281 330/335/2361	ASC C29 - Insulators for Electric Power Lines Sponsor - NEMA
169.	IEC TC 36/ SC 36A SC 36A – Insulated Bushings Chairman - Lars Johansson - Sweden Secretariat - Gianfranco GIORGI - Italy					
170.	IEC TC 36/ SC 36B SC 36 B - Insulators for Overhead Lines Chairman – Dr. Ray Houlgate - UK Secretariat – Clive R.S. Lumb - France	8 HV - High Voltage Insulator Steve Griffith		ANSI C29.1 thru .10 NEMA HV-2	R. Allen Bernstorf Hubbell Power Systems 8711 Wadsworth Rd. Wadsworth, OH 44281 330/335/2361	ASC C29 - Insulators for Electric Power Lines Sponsor - NEMA
171.	IEC TC 36/ SC 36C SC 36C - Insulators for Substations Chairman – – Dan WINDMAR - Sweden Secretariat – Y. Suzuki – Japan	8 HV - High Voltage Insulator Steve Griffith		ANSI C29.1 thru .10 NEMA HV-2	R. Allen Bernstorf Hubbell Power Systems 8711 Wadsworth Rd. Wadsworth, OH 44281 330/335/2361	ASC C29 - Insulators for Electric Power Lines Sponsor - NEMA

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172.	IEC TC 37 TC 37 - Surge Arresters Chairman - Prof. Dr.-Ing. Volker HINRICHSSEN - Germany Secretariat –Michael G. COMBER- US Assistant Secretary – Scott Choinski - US	8 LA – Surge Arrester Steve Griffith	J. L. Koepfinger J. Woodworth M. Comber	NEMA LA-1 ANSI 62.1, 62.2, 62.31, 62.32 and 62.41	Jonathan J. Woodworth ArresterWorks Olean, NY 14760 (716) 378-1419 E-Mail: jwoodworth@arresterworks.com	
173.	IEC TC 37/SC 37A SC 37A - Low-Voltage Surge Protective Devices Chairman - H. Bachl - Austria Secretariat –Mick MAGHAR - UK	5 VS - Low Voltage Transient Surge Suppressor Gary MacFadden	R. Odenberg Transtector J.L. Koepfinger W. Kapp		J.L. Koepfinger 119 Windy Willows Drive Coraopolis, PA 15108 Tel/Fax 412/264/6148 Cell Phone: 412/260/9620 Deputy TA: A.J. (Tony) Surtees 7985 Bainbrook Dr Chagrin Falls, OH 44023 440-708-1121 surtees@ieee.org	
174.	IEC TC 37/ SC 37B SC 37B - Specific Components for Surge Arrestors and Surge Protective Devices Chairman - M. Maytum - UK Asst. Secretariat –Scott Choinski - U.S.	5 VS - Low Voltage Transient Surge Suppressor Gary MacFadden			J.L. Koepfinger 119 Windy Willows Drive Coraopolis, PA 15108 Tel/Fax 412/264/6148 Cell Phone: 412/260/9620 Deputy TA William Travis 8755 W Higgins Rd Chicago, IL 60631 773-628-0655 btravis@littelfuse.com	
175.	IEC TC 38 TC 38 - Instrument Transformers Chairman - Prof. Antonio BOSSI- Italy Secretariat – F. Frugoni – Italy	8 EI – Electrical Measuring Equipment Paul Orr		NEMA EI 21.1 and 21.2	Ljubomir Kojovic, Ph.D., P.E. Chief Engineer Cooper Power Systems Thomas A. Edison Technical Center 11131 Adams Road; PO Box 100 Franksville, WI 53126-0100 (262) 835-1511 Fax: (262) 835-1544 or 1515 E-Mail: lkojovic@cooperpower.com	
176.	IEC TC 39 TC 39 – Electronic Tubes Chairman - – Nam Je KOH – Rep. Of Korea Secretariat - Prof. Sung-Ho CHANG – Rep. Of Korea	None			Willaim A. Rowe	

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177.	IEC TC 40 TC 40 – Capacitors and Resistors for Electronic Equipment Chairman - Kimmo B. Saarinen - Finland Secretariat - P.S. Friedrich – Netherlands	1IS 8CP			<u>Capacitors</u> Kurt Zipp Nissei-Arcotronics 120 East Beloit St P.O. Box 159 Darien, WI 53114 262/724/5221 <u>Resitors</u> VACANT <u>Deputy Tech Advisor</u>	
178.	IEC TC 42 TC 42 – High-voltage Testing Techniques Chairman - – Dr. Juris RUNGIS - Australia Secretariat - A.J. Vandermaar - Canada	8CP 8HV 8SG 8TR			William Larzelere Evergreen Consulting International 120 Fox Lane Mount Kisco, NY 10549 914/234/6442	
179.	IEC TC 44 TC 44 - Safety of Machinery - Electrotechnical Aspects Chairman - Friedrich HARLESS - Germany Secretariat – Nick BRADFIELD – UK	1 IS – Industrial Control and Systems Bill Buckson Ken Gettman	David Fisher - Allen-Bradley		David S. Fisher Allen-Bradley 1201 S. 2nd St. Milwaukee, WI 53201 414/382-2795 <u>Deputy Tech. Advisor</u> VACANT	Special Group of Advisors Sponsor - NEMA
180.	IEC TC 44/WG 3 - Revision of IEC Publication 204-1	1 IS - Industrial Control and Systems Bill Buckson	David Fisher - Allen-Bradley			
181.	IEC TC 44/WG 5 – Interfacing	1 IS - Industrial Control and Systems Bill Buckson	Ernst Dummermuth - Allen-Bradley David Brod – Allen-Bradley			
182.	IEC TC 45 TC 45TC5 – Nuclear Instrumentation Chairman – Morgan Cox - US Secretariat – Sergei SHUMOV - Russia	None			Michael P. Unterweger NIST Radioactivity Group Bldg. 245 Room C115 Gaithersburg, MD 20899 301/975/5536 Deputy Tech Advisor Louis Costrell NIST Div 846 245/C229 Gaithersburg, MD 20899 301/975/5608	
183.	IEC TC 45/SC 45 ASC 45A – Reactor Instrumentation Chairman – E. A. Corte - US Secretariat - Jean-Paul Bouard – France	None			Gary Johnson Lawrence Livermore National Laboratory 7000 East Avenue, Bldg. 543 RM 1237 L-632 Livermore, CA 94550 925/423/8834	

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184.	IEC TC 45/ SC 45B SC 45B – Radiation Protection Instrumentation Chairman - M.G. Thompson - UK Secretariat - Miroslav VOYTCHEV - France	None			Michael P. Unterweger NIST <u>Deputy Tech Advisor</u> Morgan Cox 2501 W. Zia Road Suite 3102 Santa Fe, MN 87501 505/471/1370 Jack M. Selby 5504 West Umatilla Street Kennewick, WA 99336 509/943/3634-Office 509/783/2070 – Residence	
185.	IEC TC 46 TC 46 - Cables, Wires, Waveguides, R.F. Connectors, And Accessories For Communication And Signaling Chairman - Dr. Lauri Halme - Finland Secretariat - John KINCAID – US	None			Dr. James S. Tyler Superior/Essex Product Development Center 3600 Cobb Intl. Blvd. #400 Kennesaw, GA 30152 678/742/1620 Deputy Tech Advisor John W. Kincaid	
186.	IEC TC 46/ SC46A SC 46A - Coaxial Cables Chairman - L.K. Halme - Finland Secretariat – – Bernard MUND - Germany	7 HW - High Performance Wire & Cable Eric Schweitzer			David Wilson Product and Technical Services Engineer CATV CommScope, Inc. 6519 CommScope Road Catawba, NC 28609 (828) 241-6063 Fax: (828) 241-6169 E-Mail: dwilson@commscope.com	Special Group of Advisors Sponsor - EIA
187.	IEC TC 46/ SC 46C SC 46C – Wires and Symmetric Cables Chairman - Dipl.-Ing. Siegfried Bruggendieck - Germany Secretariat - M. Philippe De Sainte Marie - France	7 HW - High Performance Wire & Cable Eric Schweitzer		NEMA WC63.1	Dr. James S. Tyler (Address in TC 46) <u>Deputy Tech Advisor</u> John W. Kincaid (Address in TC 46 SC 46A)	
188.	IEC TC 46/ SC 46D SC 46F – RF AND MICROWAVE PASSIVE COMPONENTS Chairman – Dr. Barry G.M. HELME - UK Secretariat - Guy PERROT - France	None			John Schimelfanick Quality Assurance Manager Applied Engineering Products POB 510 104 John Murphy Drive New Haven, CT 06513 (203) 776-2813 <u>Deputy Tech Advisor</u> John John Morelli (Vice President Microwave 2400 Centrepark West Suite 100 West Plam Beach, FL 33409 (561) 840-1800 Fax: (561) 842-6277 E-Mail: johnmo@svmicro.com	

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189.	IEC TC 47 TC 47 – Semiconductor Devices Chairman – Nicholas E.F. LYCOUDES - US Secretariat – Dr. Cheolung CHA Rep. Of Korea	None			Jack McCullen Intel Corp. 5000 West Chandler Blvd. MS CH5-263 Chandler, AZ 85226 480) 554-5354 E-Mail : jack.t.mccullen@intel.com <u>Deputy Tech Advisor</u> James M. Wolbert Director of Quality Chip Supply Inc. 7725 North Orange Blossom Trail Orlando, FL 32810 E-Mail: jwolbert@chipsupply.com (407) 296-5658	
190.	IEC TC 47/SC 47 SC 47A – Integrated Circuits Chairman – Roger GEORGE - UK Secretariat - Hisao KASUGA – Japan	None			Nicholas E.F. Lycoudes Motorola Inc. 2100 E./ Elliot Rd. MS EL 374 Tempe, AZ 85282-1801 480/413/3342 <u>Deputy Tech Advisor</u> James M. Wolbert Director of Quality Chip Supply Inc. 7725 North Orange Blossom Trail Orlando, FL 32810 E-Mail: jwolbert@chipsupply.com (407) 296-5658	
191.	IEC TC 47/SC 47 DSC 47D – Mechanical Standardization of Semiconductors Devices Chairman – Shinichi NAKAMURA – Japan Secretariat - — Hiroshi Yashida - Japan	None			Michael Hundt Packaging Director STMicroelectronics Inc. 1310 Electronics Dr. MS 648 Carrollton, TX 75006 Tel: (972) 466-7282 E-Mail: michael.hundt@st.com <u>Deputy Tech Advisor</u> Harry Siegel Ph.D. Staff Engineer Corporate Packaging and Automation STMicroelectronics Inc. 1310 Electronics Dr. MS 648 Carrollton, TX 75006 (972) 466-7055 E-Mail: harry.siegel@st.com	

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192.	IEC TC 47/SC 47E SC 47E – Discrete Semiconductor Devices Chairman -- Koniki Ohwada - Japan Secretariat - Dr. Young Min KIM – Rep. Of Korea	None			Robert Krause Fairchild Semiconductor Inc. Optoelectronic Appliances Dept. 3001 Orchard Pkwy San Jose, CA 95134 (408) 822-2544 FAX: (408) 822-2601 E-Mail : robert.krause@fairchildsemi.com <u>Deputy Technical Advisor</u> Jamshed Khan Avago Technologies 350 West Trimble Road San Jose, CA 95131 (408) 435-4218 Fax: (408) 435-4271 E-Mail: jamshed.khan@avagotech.com	
193.	IEC TC 47/SC 47F – Micro-electromechanical systems					
194.	IEC TC 48/SC 48 – Electromechanical Components and Mechanical Structures for Electronic Equipment Chairman - Gerd WEKING - Germany Secretariat - Jeffrey R. TORAN – US	1IS			Daniel J. Mullin The Siemon Company 76 Westbury Park Road Watertown, CT 0697-0400 (860) 945-8488 <u>Deputy Tech Advisor</u> Jeffrey R. Toran FCI USA Inc. 825 Old Trail Road Etters, PA 17319-9769 (717) 938-7761	
195.	IEC TC 48/SC 48B/SC 48B – Connectors Chairman – B. Joynes - UK Secretariat – J. Toran – US	1IS			Daniel J. Mullin The Siemon Company 76 Westbury Park Road Watertown, CT 0697-0400 (860) 945-8488 <u>Deputy Tech Advisor</u> Jeffrey R. Toran FCI USA Inc. 825 Old Trail Road Etters, PA 17319-9769 (717) 938-7761	
196.	IEC TC 48/SC 48D SC 48D – Mechanical Structures For Electronic Equipment Chairman – A. Wallers - Sweden Secretariat - Paul MAZURA– Germany	None			Eike Waltz Rittal Corp. 412 Lock Drive Aptos, CA 95003 (831) 688-6651	
197.	IEC TC 49/SC 49 – Piezoelectric and Dielectric Devices for Frequency Control and Selection Chairman – G. Johnson - US Secretariat - Toshihiro KOJIMA- Japan	None			<u>Dieter Jundt</u> Cyrstal Technology Inc. 1040 E. Meadow Circle Palo Alto, CA 94302 (650) 354-0114	

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198.	IEC TC 51 TC 51 – Magnetic Components and Ferrite Materials Chairman – Dr. Dirk HUISMAN - Netherlands Secretariat - Tadashi MITSUI– Japan	8TP Scott Choinski			Mark A Swihart Magnetics 111 Zeta Drive Pittsburg, PA 15328 (412) 696-0333 <u>Deputy Tech Advisor</u> D Timothy Reeder President and COO Ferronics Incorporated 45 O'Connor Road Fairport, NY 14450 (716) 388-1020	
199.	IEC TC 55 TC 55 - Winding Wires Chairman - A. Martinengo - Italy Secretariat - Mike LEIBOWITZ - US	6 MW – Magnet Wire Mike Leibowitz	Donald Barta– Rea Magnet Wire	NEMA MW 1000	Donald Barta Manager, Product/Polymer Engineering Rea Magnet Wire Co. 4300 New Haven Ave. Fort Wayne, IN 46803 (260) 421-5484 E-Mail: dbarta@reawire.com <u>Deputy Tech Advisor</u> David Cain Manager, Product Applications Essex Group, Inc. 1601 Wall Street, P.O. Box 1601 Fort Wayne, IN 46801 Tel: (260) 461-4026 E-mail: david.cain@spsx.com	Special Group of Advisors Sponsor - NEMA
200.	IEC TC 56 TC 56 – Dependability Chairman - - VACANT – To be Appointed Secretariat - Mick MAGHAR– UK				Milena Krasich Bose Corp 12 Tammer Lane Hopkinton, MA 01748 (508)766-6441 <u>Deputy Tech Advisor</u> Frank D. Straka LifeFitness Corp. 583 E. Parkway Road Riverside, IL 60546 (708) 447-3751	
201.	IEC TC 57 TC 57 – Power System Control and Associated Communications Chairman - Thierry Lefebvre - France Secretariat - Andreas Huber - Germany	8LA 8SG			<u>Technical Advisor</u> Scott A. Neumann President Message Tek 16411 Dysprosium Street NW Ramsey, MN (612) 703-4328	

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202.	IEC TC 59TC 59 – Performance of Household Electrical Appliances Chairman - Fabio GARGANTINI - Italy Secretariat - Dipl.-Ing. Peter Riller – Germany	3DC 7XC			Jennifer Moyer Standards Project Manager AHAM 1111 19 th Street NW Suite 402 Washington, DC 20006 (202) 872-5955 Ext. 319 E-Mail: jmoyer@aham.org	
203.	IEC TC 59/SC 59A SC 59A - Electric Dishwashers Chairman - Dr. Gunther Ennen - Germany Secretariat - David Molina – Spain	None			Joseph D. Tobbe General Electric Appliance Park AP 5/IN-152 Louisville, KY 40225 (502) 452-5231	
204.	IEC TC 59/ SC 59C SC 59C - Heating Appliances Chairman - – To be Appointed Secretariat - Leo Kaim - Germany	None			Vacant	
205.	IEC TC 59/ SC 59D SC 59D - Home Laundry Appliances Chairman -Dr. Thomas HILGERS - Germany Secretariat - Mrs. Milena PRESUTTO- Italy	None			Anthony Hardaway Whirlpool Corporation St. Joseph Technology Center 303 Upton Drive MD 212 St. Joseph, MI 49085-1175 (616) 923-5079	
206.	IEC TC 59/SC 59F SC 59F - Floor Treatment Appliances Chairman - Grahame G. Capron-Tee - UK Secretariat - Hans Erik RUNDQVIST– Sweden	None			Daniel R. Miller Staff Engineer-Laboratories The Hoover Company 101 East Maple Street North Canton, OH 44720-2597 (330) 499-9200 Ext. 2616	
207.	IEC TC 59/SC 59K SC 59K - Ovens And Microwave Ovens, Cooking Ranges And Similar Appliances Chairman - -Timothy L. BROOKS - UK Secretariat – Dr. Klaus-Dieter FISCHER - Germany	None			Jennifer Moyer Also TC 59	
208.	IEC TC59/SC 59L Small household appliances Chairman - Thomas DORN – Germany Secretariat - Fabio GARGANTINI – Italy				VACANT	
209.	IEC TC 59/SC 59M Performance and Ratings of Household & Industrial Refrigerators and Freezers				Bill Brown, PE GE Consumer Appliance Park AP4-104 Louisville, KY 40225 (502) 452-4943 E-Mail: b.brown@ge.com	

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210.	IEC TC 61/TC 61 – Safety Of Household and Similar Electrical Appliances Chairman – D.R. Johns – New Zealand Secretariat - Albert P. Brazauski - US	3DC			Thomas V. Blewitt Underwriters Laboratories Inc. 1285 Walt Whitman Road Melville, NY 11747-3081 (631) 271-6200 X 22332 E-Mail: Thomas.V.Blewitt@us.ul.com	
211.	IEC TC 61/SC 61B/SC 61B – Safety of Microwave Ovens Chairman – H. Sasaki - Japan Secretariat – Rupert STEINER - Switzerland	None				
212.	IEC TC 61/SC 61C/SC 61C – Household Appliances for Refrigeration Chairman – H. Sasaki - Japan Secretariat - Dr. Xiaotian ZHOU - Germany	None			Randall J. Haseman Primary Designated Engineer Underwriters Laboratories Inc. 333 Pflingsten Road Northbrook, IL 60062 (847) 664-3076	
213.	IEC TC 61/SC 61D/SC 61D – Appliances for Air-Conditioning for Household and Similar Purposes Chairman - B.J. Hough - UK Secretariat – A. Pirro - US	None			To be Appointed	
214.	IEC TC 61/SC 61E/SC 61E – Safety of Hand-held Motor-operated Electric Tools Chairman – Alessandro Soave - Italy Secretariat – D. Jacob Smit – S. Africa	None			Vacant	
215.	[now TC116]					
216.	IEC TC 61/SC 61H/SC 61H – Safety of Electrically-Operated Farm Appliances Chairman – A.T. Dreyer – S. Africa Secretariat – D. R. Johns – New Zealand	None			Vacant	
217.	IEC TC 61/SC 61J – Electrical Motor-operated Cleaning Appliances for Industrial Use Chairman - – Paul A. SCHILKE - US Secretariat – Dipl.-Ing Wolfgang NIEUWKAMP – Germany	None			Curtis Bender Lead Project Engineer-Electrical Tennant Co. 12875 Ranson Street Holland, MI 49424 (800) 522-7839	
218.	IEC TC 62/TC 62 - Electrical Equipment in Medical Practice Chairman - Dr. R.I. Godinez - US Secretariat - Dr. Norbert BISCHOF Germany	Div 9 – Diagnostic Imaging and Therapy Systems Richard Eaton			Bernard Liebler Advanced Medical Technology Assn. 1200 G. St. NW - Suite 400 Washington, DC 20005 202/434-7320	Special Group of Advisors Sponsor - HIMA
219.	IEC TC 62/SC 62A/SC 62A - Common Aspects of Electrical Equipment Used in Medical Practice Chairman - L.M. Knuckey - Australia Secretariat – C. Sidebottom P.E. - US	Div 9 – Diagnostic Imaging and Therapy Systems Richard Eaton			Bernard Liebler Advanced Medical Technology Assn. 1200 G. St. NW - Suite 400 Washington, DC 20005 202/434-7320	Special Group of Advisors Sponsor - HIMA

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220.	IEC TC 62/SC 62A/WG 13 - EMC for Medical Devices	Div 9 – Diagnostic Imaging and Therapy Systems Richard Eaton				
221.	IEC TC 62/SC 62B SC 62B - X-Ray Equipment Operating Up to 400 KV and Accessories Chairman - Prof. Dr. James Francis MALONE - Ireland Secretariat — Dr. Norbert BISCHOF - Germany	9 XR - X-Ray Imaging Products Richard Eaton	John Olsson - GE Medical	NEMA XR 5, XR 7, XR 10, XR 12	William J. Gerber 2808 Haggett Drive Twinsburg, OH 44087-2940 (330) 405-6983	Special Group of Advisors
222.	IEC TC 62/SC 62B/WG 12 - X-Ray Tube Assemblies	9 XR - X-Ray Imaging Products Richard Eaton	Dennis Runnoe - EIMAC			
223.	IEC TC 62/SC 62B/WG 16 - Characteristics of X-Ray Image Intensifiers	9 XR - X-Ray Imaging Products Richard Eaton	Charles Pross - NEMA			
224.	IEC TC 62/SC 62C SC 62C – Equipment for radiotherapy, nuclear medicine and radiation dosimetry Chairman - Geoffrey S. IBBOTT - US Secretariat - Dr. Bernd Seidel – Germany	9 NU – Rich Eaton			Geoffrey S. Ibbott Ph.D. Assoc. Prof. and Chief Section of Outreach Physics Department of Radiation Physics Box 547 UT M.D. Anderson Cancer Center 1515 Holcombe Blvd. Houston, TX 77030 (713) 792-3226	

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225.	IEC TC 62/SC 62C/WG 1 - Beam Teletherapy and Particle Accelerators Chairman - Geoffrey S. IBBOTT - US Secretariat - Dr. Bernd Seidel – Germany	9 TH - Radiation Therapy Richard Eaton	C. Nunan - Varian		Geoffrey S. Ibbott Ph.D. Assoc. Prof. and Chief Section of Outreach Physics Department of Radiation Physics Box 547 UT M.D. Anderson Cancer Center 1515 Holcombe Blvd. Houston, TX 77030 (713) 792-3226 <u>Deputy Tech Advisor</u> (DTA - Therapy) (DTA-WG 3-Therapy Chambers) Larry A. DeWerd, Ph.D. FAAPM Professor and Director Radiation Calibration Laboratory University of Wisconsin 1530 MSC, 1300 University Ave Madison, WI 53706 (608) 262-0378 (DTA-WG 2-Nuclear Medicine Instrumentation) Eric Woronowicz 1514 Main Street Niagara Falls, NY 14305 Tel/Fax: (905) 468-5673	
226.	IEC TC 62/SC 62C/WG 2 - Nuclear Medicine Instrumentation	9 NU - Nuclear Richard Eaton	J. Engdahl - GE Medical Eric Woronowicz - NMI Consultants Inc.			
227.	IEC TC 62/SC 62D - Electromedical Equipment Chairman - R.J. Schaefer - Germany Secretariat - Michael W. Schmidt – US	Div 9 - Diagnostic Imaging and Therapy Systems Andrew Whitman Richard Eaton			Nick Tongson Association for the Advancement of Medical Instrumentation 1110 N. Glebe Road Suite 200 Arlington, VA 22201-4795 (703) 525-4890 Ext 228	Special Group of Advisors Sponsor - AAMI
228.	IEC TC 64 TC 64 - Electrical Installations of Buildings Chairman - Roland TALON - France Secretariat - Dipl.-Ing. R. Pelta - Germany	1 IS - Industrial Control and Systems Ken Gettman	Ken Gettman (by correspondence)	ANSI C84.1 NFPA 70 UL 943	James T. Pauley, P.E. Vice President, Industry and Government Relations <u>Square D/Schneider Electric</u> 1601 Mercer Road Lexington, KY 40511 (859) 245-7923 <u>DTA</u> Ken Gettman NEMA see address under TC16	Special Group of Advisors Sponsor - NEMA

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229.	IEC TC 64/WG 3 - External Influences	1 IS - Industrial Control and Systems Ken Gettman 5 AB - Molded Case Breaker	Henry Zylstra- Square D Ken Gettman			
230.	IEC TC 64/WG 9 - Disconnecting Times and Related Matters	5LVDE - Low Voltage Distribution Equipment 5PP Ken Gettman	Ken Gettman			
231.	IEC TC 64/WG 17 – Classification of Electrical and Electronic Equipment With Regard to Protection Against Electrical Shock (in normal service and in case of fault)	1 IS - Industrial Control and Systems Ken Gettman 5 AB - Molded Case Breaker	H. Zylstra- Square D Peter Dwyer – Dwyer Enterprises Ken Gettman			
232.	IEC TC 64/WG 22 - Selection and Erection of Switchgear and Controlgear	1IS 5LVDE 5PP 8SG	Ken Gettman			
233.	IEC TC 64/WG28 – Particular installations for exhibitions, fairgrounds and commercial facility	Ken Gettman	Ken Gettman (by correspondence)			
234.	IEC TC 65 TC 65 - Industrial Process Measurement and Control Chairman — Roland HEIDEL - Germany Secretariat - Bernard Dumortier - France	1 IS - Automation Products and Systems Greg Winchester Ken Gettman	Ronald Reimer - Allen-Bradley		Joseph D. Duffy Emerson Process Management 8627 Mopac Expressway N Austin, TC 78759 (512) 834-7196	Special Group of Advisors - ISA - SP1.1 - Thermocouples/ Extension Wires - SP1.4 - Bulbs/Other Mech. Temperature Indicators - SP48 - Test Profor Process Control etc.
235.	IEC TC 65/SC 65 SC 65A - System Aspects Chairman - Joseph D. Duffy - US Secretariat - Nick Bradfield – UK	1 IS - Automation Products and Systems Greg Winchester	Ronald Reimer - Allen-Bradley		Norm Provost INVENSYS SYSTEMS Inc. 33 Commercial Street MS NO3-1A Foxboro, MA 02035 (508) 549-3238	Special Group of Advisors - ISA

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236.	IEC TC 65/ SC 65B SC 65B – Devices Chairman - Dipl.-Ing. Martin GARRE - Germany Secretariat - Elliana Beattie– US	1 IS - Automation Products and Systems Greg Winchester Ken Gettman			<u>Mech & Pneum.Devices</u> J Tony George Richards Industries Inc. 3170 Wasson Road Cincinnati, OH 45209-2360 (513) 533-5609 <u>Electronic Devices</u> Bob Kretschmann Allen-Bradley Company 747 Alpha Dr. 1 Allen-Bradley Drive, Mayfield Heights, OH 44124 440/646-3693 Ken Gettman (Address in TC 16)	TC 65 AG plus related ISA Committees SP 1.1, 1.4, 48, 75 Special NEMA
237.	IEC TC 65/SC 65B/WG 7 - Programmable Control Systems for Discontinuous Industrial Processes	1 IS - Automation Products and Systems Ken Gettman	<u>WG 7</u> Bob Kretschmann - Rockwell <u>TF 3</u> Jim Christensen - Rockwell <u>TF 4</u> Ray Turk - Rockwell <u>TF 7</u> Mike Pelly - Allen-Bradley			
238.	IEC TC 65/ SC 65C /WG 6 - Industrial Process Computer Inter-Subsystem Communications – Disbanded WG6 Chairman – A. Capel - Canada Secretariat - Bernard Dumortier - France	1 IS – Automation Products and Systems Greg Winchester	Em Delahostria - Allen-Bradley		<u>Digital Communications</u> Thomas L. Phinney Honeywell Labs. MS: 1W9 16404 N.Black Canyon Hwy Phoenix, AZ 85053-3095 (602) 313-5989	
239.	IEC TC 65/SC 65C – Industrial networks					
240.	IEC TC 65/SC 65 E – System: engineering and management Chairman – Christian Verney – France Secretariat – Lee Neitzel - US	1 IS – Automation Products and Systems Greg Winchester			Terrence L Blevins Emerson Process Management 12301 Research Boulevard, Bldg III Austin, TX 78759 (512) 418-2628 E-Mail: terry.blevins@EmersonProcess.com <u>Deputy Tech Advisor</u>	

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241.	IEC TC 66 – Safety of Measuring, Control and Laboratory Equipment Chairman - Ton CLERKX – Germany Secretariat - N.A.R. Bradfield – UK	8EI			Thomas E. Kimble Dade Behring Inc. Glasgow Business Community MS 505 P.O. Box 6101 Newark, DE 19714-6101 (302) 631-7410 <u>Deputy Tech Advisor</u> Ray Corson Agilent Technologies Inc. 815 14 th Street S.W. MSBU-212 Loveland, CO 80537 (970) 679-3816 Richard C. Masek CSA International 8501 E. Pleasant Valley Road Cleveland, OH 44131-5575	
242.	IEC TC 68 TC 68 – Magnetic Alloys and Steels Chairman - Dr. Hugh J. Stanbury - UK Secretariat - Dr. J.D. Sievert - Germany	None			Richard F. Lyke AK Steel Corp. Research Center 705 Curtis Street Middletown, OH 45043 (513) 727-5709	
243.	IEC TC 69 TC 69 – Electric Road Vehicles and Electric Industrial Trucks Chairman - – Monsieur Cyriacus BLEIJS - France Secretariat Peter VAN DEN BOSSCHE - Belgium	1IS 3DB			Sonya M. Bird Senior Staff Enginner-Global Standards Underwriters Laboratories Inc. 12 Laboratory Drive <u>PO Box 13995</u> Research Triangle Park,NC 27709 (919) 549-1685 <u>Deputy Tech Advisor</u> Vacatn	
244.	IEC TC 70 TC 70 - Degrees of Protection by Enclosures Chairman - – Mateo Gavazzeni - Italy Secretariat - P. Linnert- Germany	5 EN – Enclosures Gary MacFadden		NEMA 250 UL 50 CSA C22.2 No. 94	John W. Young Siemens Energy & Automation Inc. Distribution Products Div. 5400 Triangle Parkway Norcross, GA 30092 770-326-2108 john.young@Siemens.com	Special Group of Advisors

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245.	IEC TC 72 TC 72 - Automatic Controls for Household Use Chairman - J.Dammer – The Netherlands Secretariat –Gerard Winstanley- US	3 DC - Residential Controls Gerard Winstanley	Joe Antony – UL Tuong Nguyen – Therm-o-disk Rich Simons - Honeywell	NEMA - All DC Standards UL 429, 853, 873, 917, 1020 and 1585	Joe Antony Principal Engineer Underwriters Laboratories Inc. 333 Pfungsten Rd, Northbrook, IL 60062-2096 <u>Deputy Tech Advisor</u> Simons, Richard, Director, Residential Combustion Product Management Honeywell International Inc 1985 Douglas Dr North, MN10-2527, Golden Valley, MN 55422-3992 (763)-954-6761 E-mail: richard.simons@Honeywell.com	Special Group of Advisors Sponsor - AHRI
246.	IEC TC 72/WG 1 - Burner Relays	3 DC - Residential Controls Gerard Winstanley	P. Beach White-Rodgers			
247.	IEC TC 72/WG 2 – Electrically Operated Valves	3 DC - Residential Controls Gerard Winstanley	P Beach White-Rodgers			
248.	IEC TC 72/WG 3 – Motor Protectors	3 DC - Residential Controls Gerard Winstanley	Tuong Nguyen – Therm-O-Disk			
249.	IEC TC 72/WG 5 – Timers	3 DC - Residential Controls Gerard Winstanley	J. Antony UL			
250.	IEC TC 72/WG 6 - Thermal Controls	3 DC - Residential Controls Gerard Winstanley	J Antony UL			
251.	IEC TC 72/WG 8 - Use of Electronics in Household Automatic Controls	3 DC - Residential Controls Gerard Winstanley	R. Simons Honeywell			
252.	IEC TC 72/WG 9 - Electric Actuators	3 DC - Residential Controls Gerard Winstanley	J. Antony UL			

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253.	IEC TC 72/WG10 – Creepages & clearances	3 DC - Residential Controls Gerard Winstanley	R. Simons Honeywell			
254.	IEC TF 73TC 73 – Short-Circuit Currents Chairman - Prof. Bernd OSWALD - Germany Secretariat –PhD Engineer Gunne HEGGLID Norway	1IS 5AB 5KS 5PP 8SG			Vacant	
255.	IEC TC 76TC 76 – Optical Radiation Safety and Laser Equipment Chairman – J. Dennis - US Secretariat – Dr. G. Glen – US	DIV 9			Jerome Dennis Electronic Products Branch Office of Compliance CDRH HFZ-342 2098 Gaither Road Rockville, MD 20850 (301) 594-4654 <u>Deputy Tech Advisor</u> Robert M. Weiner Weiner Associates 544 23 rd Street Manhattan Beach, CA 90266 (310) 545-1190	
256.	IEC TC 77TC 77 – Electromagnetic Compatibility Between Electrical Equipment Including Networks Chairman – Prof. Masamitsu TOKUDA - Japan Secretariat - Diethard Moehr - Germany	1 IS - Industrial Control and Systems Ken Gettman	Ray Turk - Rockwell Automation		Dr. R.M. Showers University of Pennsylvania Philadelphia, PA19104 215/898-8123 <u>Deputy Tech Advisor</u> Dr. Raymond A. Turk Rockwell Automation One Allen Bradley Drive Mayfield Heights, OH 44124-6118 (440) 646-3999	Special Group of Advisors
257.	IEC TC 77/SC 77ASC 77A – Low Frequency Phenomena Chairman – Jean BERTIN-MAHIEUX - Canada Secretariat – Monsieur Hervé ROCHEREAU – France	1IS 5LVDE 5PP	WG1 - Bill Burks - APC		Dr. R.M. Showers	
258.	IEC TC 77/SC 77B SC 77B - High Frequency Phenomena Chairman - -- Luis NUNO - Spain Secretariat - Jacques Delaballe – France	1 IS - Industrial Control and Systems Ken Gettman	Ray Turk - Rockwell Automation		Dr. R.M. Showers <u>Deputy Tech Advisor</u> Dr. Raymond A. Turk	Special Group of Advisors
259.	IEC TC 77/SC 77C SC 77C – High Power Transient Phenomena Chairman - Dr. W.A. Radasky - US Secretariat - Richard HOAD – UK	?			Paul R. Barnes 259 Glenstone Circle Harrogate, TN 37752 (423) 869-2294	

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260.	IEC TC 78 TC 78 – Live Working Chairman - Dr. George Gela - US Secretariat – Claire Vincent - Canada	8SG 8TP			Donald A. Gillies Gillies & Associates 65460 E. Sandy River Lane Rhododendron, OR 97049 (503) 622-4847 <u>Deputy Tech Advisor</u> James Tomaseski IBEW Director Safety and Health Dewp. International Brotherhood of Electrical Workers 900 Seventh Avenue NW Room 375 Washington, DC 20001 Tel: (202) 728-6040 Fax: (202) 728-6137 E-Mail: jt@ibew.org	
261.	IEC TC 79 TC 79 - Detection and Alarm Systems Chairman - Eric Breuille - France Secretariat - Olivier LANEN - France	3 SB - Signaling, Protection & Communication Section John Collins			Mark W. Earley, P.E. NFPA 1 Batterymarch Park PO Box 9101 Quincy, MA 02269-9101 (617) 984-7400	
262.	IEC TC 80 TC 80 – Maritime Navigation and Radiocommunication Equipment and Systems Chairman - Dr. A.P. Norris - US Secretariat – Kim FISHER – UK	None			Joseph D. Hersey, Jr. US Coast Guard (G-SCT-2) 2100 Second Street SW Washington, DC 20593 (202) 267-1358 <u>Deputy Tech Advisor</u> Paul Arnstein US Coast Guard (G-SCE) 2100 Second Street SW Washington, DC 20593 (202) 267-1215	
263.	IEC TC 81 TC 81 – Lightning Protection Chairman - – Mr. Mitchell A. GUTHRIE - US Secretariat - Dr. Ing. G.B. Lo Piparo – Italy	8LA			Mitchell A. Guthrie Universal Systems Inc. 234 Guthrie Road Blanch, NC 27212 (336) 694-6177 <u>Deputy Tech Advisor</u> John M. Tobias P.E. US Army Research and Development Command Space and Terrestrial Communications Directorate Directorate for Safety AMSRD-CER-ST-WL-AA Fort Monmouth, NJ 07703-5000 (732) 427-0221	

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264.	IEC TC 82 TC 82 – Solar Photovoltaic Energy Systems Chairman - Dr. Heinz Alexander OSSENBRINK - Italy Secretariat - Howard O BARIKMO – US	3DC			Stephen M. Chalmers PowerMark Corp. 4044 East Whitton Avenue Phoenix, AZ 85018 (602) 955-7214 <u>Deputy Tech Advisor</u> Chuck Whitaker BEW Engineering Inc 2303 Camino Ramon Suite 220 San Ramon, CA 94583 (925) 867-3330 E-Mail : chuck.whitaker@bewengineering.co	
265.	IEC TC 85 TC 85 – Measuring Equipment for Electrical and Electromagnetic Quantities Chairman - Franck Gruffaz - France Secretariat - Bo CHEN - China	8EI			Dr. David W. Braudaway 103 Ranch Road PO Box #9 Sandia Park, New Mexico 87047-0009 Tel/Fax: (505) 281-3691	
266.	IEC TC 86 TC 86 – Fibre Optics Chairman - Ing. Umberto Rossi – USA Secretariat – James E. MATTHEWS III – US	DIV 7			James E. Matthews III Stds Engrg Director Corning Communications Sector Corning Incorporated MP-HQ-W2-03 One Riverfront Plaza Corning, NY 14831 Tel: 607-974-7608 <u>Deputy Tech Advisor</u> VACANT	
267.	IEC TC 86/SC 86 SC 86A – Fibres and Cables Chairman - Dr. Günter H. Zeidler - Germany Secretariat - Guy Perrot – France	Div 7			Thomas A. Hanson Corning Inc. Opto-Electronics MP-QX-02 8 East Denison Pkwy Corning, NY 14831 (607) 974-4530 <u>Deputy Tech Advisor</u> Steven E. Swanson Corning Incorporated Opto-Electronics MP-QX-02 8 East Denison Pkwy Corning, NY 14831 (607) 974-4252	

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268.	IEC TC 86/ SC 86B SC 86B – Fibres Optic Interconnecting Devices and Passive Components Chairman - B- Kenneth P. ARMITAGE - UK Secretariat - Etsuji SUGITA – Japan	Div 7			Steven E. Swanson Corning Incorporated Opto-Electronics MP-QX-02 8 East Denison Pkwy Corning, NY 14831 (607) 974-4252 <u>Deputy Tech Advisor</u> Matthew Brown Applications Engineer US Conec Ltd 1555 4 th Ave SE Hickory, NC 28603 (828) 267-6327	
269.	IEC TC 86/ SC 86C SC 86C – Fibre Optic Systems and Active Devices Chairman - Dr. Pietro M. Di Vita - Italy Secretariat - Jack DUPRE -US	Div 7			Dr. Atul Srivastava One Terabit 624Vale Drive Morganville, NJ 07751 (732) 772-1210 E-Mail: Atul.Srivastava@oneterabit.com	
270.	IEC TC 87 / SC 87 TC 87 – Ultrasonics Chairman - Dr. John Garnet ABBOTT – US Secretariat - Nick BRADFIELD -UK	9 UD – Ultrasonic Imaging Section Richard Eaton			John G. Abbott, Ph.D. Director, Standards Communication Standards Development & Harmonization Center Worldwide Quality & Regulatory Affairs Philips Medical Systems PO Box 3003 Bothell, WA 98041-3003 (425) 487-7779 <u>Deputy Tech Advisor</u>	Special Group of Advisors Sponsor - AIUM

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271.	IEC TC 88 TC 88 – Wind Turbine Systems Chairman – P.B. Simpson - US Secretariat - A.C. Van Der Giessen - Netherlands	1IS 3PE			William E. Holley, Ph.D System Integration Leader of Advanced Technology GE Energy, Wind Technology GTC 100D 300 Garlington Road P.O. Box 648 Greenville, SC 29602-0648 (864) 254-2473 Bill.holley@ps.ge.com <u>Deputy Tech Advisor</u> John R. Dunlop, P.E. Renewable Energy Services 448 Morgan Avenue South, Suite 300 Minneapolis, MN 55405-2030 (612) 377-3270 Sandy Butterfield Senior Engineer National Renewable Energy Laboratory 1617 Cole Blvd Golden, CO 80401 (303) 384-6902	
272.	IEC TC 89 TC 89 – Fire Hazard Testing Chairman – Ing. Uberto VERCELLOTTI – Italy Secretariat - Nic Maennling - Canada	1IS 3DC 3SB			George J. Fechtmann P.E. Department Manager Underwriters Laboratories Inc. 1285 Walt Whitman Road Melville, NY 11747-3081 (631) 546-2858	
273.	IEC TC 90 TC 90 – Super Conductivity Chairman - Dr Christian-Eric Bruzek – France Secretariat - Ken-Ichi Sato – Japan	Mike Leibowitz – TAG Administrator			Dr. Stephen Fleshler American Superconductor 64 Jackson Road Devens, MA 01434 (978) 842-3116	Special Group of Advisors Sponsor - NEMA
274.	IEC TC 9TC 1 TC 91 – Electronics Assembly Technology Chairman - Mr. Dieter W. BERGMAN - US Secretariat - Mr. Kazuo NISHIYAMA - JAPAN	1IS			Douglas J. Sober North American Sales Manager Bakelite Epoxy Polymers Co. Inc. 2808 Hillcreek Drive Suite A Augusta, GA 30909 Tel: (706) 650-0210 <u>Deputy Tech Advisor</u> Dieter W. Bergman Institute for Interconnecting & Packaging Electronic Circuits 2215 Sanders Road Northbrook, IL 60062-6135 (847) 509-9700 Ext. 339	

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275.	IEC TC 93 TC 93 – Design Automation Chairman – – Dr. Osamu KARATSU - Japan Secretariat - Dieter W. BERGMAN- US	1IS			John Messina NIST 100 Bureau Drive Bldg 225 Rm A3456 Stop 8120 Gaithersburg, MD 20899 (301) 975- 4284 E-Mail: john.messina@nist.gov	
276.	IEC TC 94 TC 94 – All-or-Nothing Electrical Relays Chairman - Dipl.-Ing. Sepp Antonitsch - Germany Secretariat - - Dipl.-Phys. Guido Von Trentini – Germany	1IS			V Randy Pohl Rockwell Automation/Allen Bradley Div 1201 South Second Street Milwaukee, WI 53204 (414) 382-3313 E-Mail: rppohl@ra.rockwell.com	
277.	IEC TC 95 TC 95 – Measuring Relays and Protection Equipment Chairman — Mrs. Yaping LI – China Secretariat - Serge VOLUT- France	1IS			Eric A. Udren Senior Principal Consultant KEMA T&D Consulting 3801 Lake Boone Trail Suite 200 Raleigh, NC 27607 (919) 256-0839	
278.	IEC TC 96 TC 96 - Small Power Transformers & Reactors, and Special Transformers and Reactors Chairman - Gert Bukkjaer - Denmark Secretariat – Wolfgang REICHELT - Germany	8 TP - Dry-Type and Specialty Transformers Scott Choinski		NEMA ST 1, ST 20 ANSI C89.1, C89.2, UL 506, 1561, 1585	Jeff Brown VP Engineering & Development PO 80200 401 Progress Drive Saukville, WI 53080 (262) 268-2150 E-Mail: jdbrown@cramerco.com	Special Group of Advisors
279.	IEC TC 97 TC 97 – Electrical Installations for Lighting and Beacons of Aerodromes Chairman – Ferran Balcells Serra - Spain Secretariat - Mrs Carmen MARTIN MARINO - Spain	2LE				
280.	IEC TC 99 TC 99 - System Engineering And Erection Of Electrical Power Installations In Systems With Nominal Voltages Above 1kv A.C. And 1.5kv D.C., Particularly Concerning Safety Aspects Chairman - – Enrico Maria Carini - Italy Secretariat – – Mr. Jahanzeb RAHMAN - Australia	8CC 8SG			Gary R. Engmann (Home Address) 5873 Jaguar Way Littleton, CO 80124 (303)790-0219 <u>Deputy Tech Advisor</u>	

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281.	<p>IEC TC 100TC 100 – Audio, Video and Multimedia Systems and Equipment</p> <p>Chairman – M. Hyman - US Secretariat - Shuji HIRAKAWA – Japan</p>	None			<p>Jean Baronas Manager Technology Standards Office Sony Electronics Inc. 3300 Zanker Road San Jose, CA 95134-1901 (408) 955-5758</p> <p><u>DTA-Technical Area 1- Digital Receiving Equipment</u> David C. Felland MATC 1036 North Eight Street 4th Floor Milwaukee, WI 53233-1400 (414) 297-7575</p> <p><u>DTA-Technical Area 2- Colour Measurement Management</u> Jack Holm Hewlett-Packard Company 1501 Page Mill Road Palo Alto, CA 94304-1126 (650) 236-2436</p> <p><u>DTA-Technical Area 4- Digital Systems Inter</u> (VACANT)</p> <p><u>DTA-Technical Area 5- Cabled networks for television signals, sound signals and interactive services</u> Stephen P. Osaka Vice President, Standards Society of Cable Telecommunications Engineers 140 Philips Road Exton, PA 19341 (610) 524-1725 Ext. 204</p> <p><u>DTA-Technical Area 6- Higher Data Rate Storage media and Equipment - VACANT</u></p> <p><u>DTA-Technical Area 7- Moderate data rate storage media, equipment and systems - Vacant</u></p> <p><u>DTA-Technical Area 8-Multimedia Home Security Systems</u> VACANT</p> <p><u>DTA Technical Area 9- Audio, video and multimedia applications for end-user networks – VACANT</u></p> <p><u>DTA Technical Area 10- Multimedia e-publishing and e-book</u> Vacant</p>	

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282.	IEC TC 101 TC 101 – Electrostatics Chairman - Dr. Jeremy Smallwood - UK Secretariat - Hartmut BERNDT- Germany	None			John T. Kinnear, Jr. IBM Corp. 522 South Road MS/P355 Poughkeepsie, NY 12601-5400 (914) 433-1473 <u>Deputy Tech Advisor</u> Steven Gerken US Air Force AFRL/ML SA 2179 12th Street Rm 35 Wright Patterson AFB, OH 45433-7718 (937) 255-2172	
283.	IEC TC 103 TC 103 – Transmitting Equipment for Radio Communication Chairman - Pierre VASSEUR - France Secretariat - Claude BERNARD - France	None			Vacant	
284.	IEC TC 104 TC 104 – Environmental Conditions, Classifications and Methods of Test Chairman – – Mr Hermann RUOSS - Germany Secretariat – Alf Olsson - Sweden	None			G.Erich Heberlein, Jr. 4810 Dover Street Everett, WA 98203 Tel/Fax: (425) 347-3676 <u>Deputy Tech Advisor - Vacant</u>	
285.	IEC TC 105 TC 105 – Fuel Cell Technologies Chairman -- Dr. Hiromichi FUJISAWA - Japan Secretariat -- Mr Wolfgang WINKLER - Germany	3DC			Kelvin Hecht UTC Fuel Cells 127 Craigemore Circle Avon, CT 06001 Tel/FAX:(860) 673-9181 <u>Deputy Tech Advisor - Vacant</u>	
286.	IEC TC 10TC 1066 – Methods For The Assessment Of Electric, Magnetic And Electromagnetic Fields Associated With Human Exposure Chairman – R. C. Petersen – USA Secretariat – M. Bourdages - Canada	NEMA – Technical Services Department Ken Gettman		IEEE C95.1	Bill Burks American Power Conversion Corp 85 Rangeway Road North Billerica, MA 01862 (978) 670-2440 <u>Deputy Tech Advisor</u> Donald N. Heirman Don Heirman Consultants 143 Jumping Brook Rd. Lincroft, NJ 07738-1442 Office: (732) 741-7723 Fax: (732) 530-5695 E-mail: D.heirman@worldnet.att.net	Special Group of Advisors

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287.	IEC TC 107 TC 107 – Process Management for Avionics Chairman - Lloyd Condra - US Secretariat - Jean-Marie Chopin France	None			Vance E. Anderson US Dept of Defense Defense Microelectronics Activity DMEA/MEDS 4234 54th Street McClellan, CA 95652-2100 (916) 231-1646 E-Mail: anderson@dmea.osd.mil	
288.	IEC TC 108 TC 108 - Safety Of Electronic Equipment Within The Field Of Audio/Video, Information Technology And Communication Technology Chairman - Helmut Hintz - Germany Secretariat - Albert P. Brazauski - US	None			Richard L. Pescatore, P.E. Global Product, Safety Standards and Certification Manager Hewlett-Packard Co. 6970 Vina Loma Court San Luis Obispo, CA 93401 (805) 595-1449 <u>Deputy Tech Advisor</u> Ted Marks JVC America Corp 1700 Valley Road Wayne, NJ 07470 (973) 317-5148	
289.	IEC TC 109 TC 109 – Insulation Coordination for Low-voltage Equipment Chairman - Per Oestergaard Nielsen - Denmark Secretariat - Dipl. Ing. G. Krauss - Germany	1 IS – Industrial Control and Systems Bill Buckson	J. Wright – Siemens	All NEMA and UL Low Voltage Equipment Standards	James Wright Siemens Energy & Automation 1000 McKee Street Batavia, IL 60510 Tel: 630-262-7852 fax: 630-262-7540 <u>Deputy Tech. Advisor</u>	Special Group of Advisors ASC C19 - Industrial Control Apparatus Sponsor - NEMA
290.	IEC TC 109/Working Group	1 IS – Industrial Control and Systems Bill Buckson Ken Gettman	J. Wright – Siemens	ICS 1 UL 840		
291.	IEC TC 110 – Flat Panel Display Devices Chairman – Shigeo Mikoshiba – Japan Secretariat – Ideo Iwama - Japan				Dr. Larry F. Weber 1 Emmy Lane New Paltz, NY 12561 (845) 255-4551 E-Mail: larryweber@ieee.org <u>Deputy Tech. Advisor</u> William A. Rowe WARowe Consultancy 2111 Huntly Inverness, IL 60067-4734 (847) 934-7379 FAX: (413) 208-2378 E-Mail: warowe@aol.com	

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292.	IEC TC 111 – Environmental Chairman - <u>Mr. Yoshiaki Ichikawa – Japan</u> <u>Secretaria</u> - Mr. Andrea LEGNANI - Italy	Richard H. LaLumondier	Rob Friedman Marcus Boolish		Co Chairs : Linda Young Intel Product Ecology Mgr 4500 S Dobson Road Chandler, AZ 85248 480-715-4036 Robert Friedman Sr. Principal, EH&S 51 Valley Stream Parkway Malvern, PA 19355 610-448-17689 1	Special Group of Advisors Sponsor - NEMA
293.	IEC TC 112 – Insulating Systems Chairman - Mr. Roger C. WICKS--USA Secretariat - Dipl.-Phys. Bernd Klaus GÖTTER - Germany	06 IM Insulating Mtls- -Jean Johnson			USTAG TechAdvisorsr : Dr. Nandy Frost, VP Tech. 641 Grooms Rd Ste 103 Clifton Park, NY 12065 drnancyfrost@gmail.com USTAG Deputy TA : James Xu, Eng., General Non-Metallic Mtls GE 1 River Rd Bldg 55-133 Schenectady, NY 12345-6000 Jean Johnson, NEMA 1300 North 17 th Street, Suite 1752 Rosslyn, VA 22209 703-841-3226 E-Mail: jean.johnson@nema.org USTAG Secy/Alt: John Marcario FYI, TC112 Chair: Wicks (who is USA) TC WG1 Therm Endur: Xu, Wicks, O'Shea, Stankes (USA) TC WG 3 Elec Strength: O'Shea (USA) TC WG4 Dielec/Resist props: O'Shea (USA) TC WG 5 Tracking: LaBanca, Magee, O'Shea, VanVooren (USA) TC WG 6 Gen Eval Methods: Magee, Wicks, VanVooren, Stankes, Xu, LaBanca (USA)	Special Group of Advisors Sponsor - NEMA

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294.	IEC TC 113 – Nanotechnology Chairman - Mr. J. Thomas Chapin– US Secretariat - Dr. Norbert FABRICIUS - Germany	Mike Leibowitz			Brent Segal, Ph.D. Lockheed Martin Nanosystems 3 Federal Street Billerica, MA 01821 (781) 706-0227 E-Mail: bsegal@post.harvard.edu <u>Deputy Technical Advisor</u> None	Special Group of Advisors Sponsor - NEMA
295.	IEC TC 114 – Marine Energy- Wave & Tidal Energy Converters Chairman - Melanie Nadeau – Canada Secretariat – Danny Peacock - UK	None			To be appointed	
296.	IEC TC 115 - High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV (provisional)	None				
297.	IEC TC 116 – Safety of hand-held motor-operated electric tools	None				
298.	IEC TC 117 – Solar thermal electric plants	None				
299.	IEC PC 118 – Smart grid user interface	Paul Molitor (replacement)				Special Group of Advisors Sponsor - NEMA
300.	IEC TC 119 – Printed electronics	None				

ISO Committee	Primary NEMA Contact / Staff	Funded NEMA Delegate / Expert	Related NEMA, ANSI and Other Standards	ISO TAG Chairman	ISO TAG Administrator
ISO TC44/SC4Arc Welding Equipment Chairman - Wayne Hoffman – ESAB Welding & Cutting Products Secretariat – Andrew Davis – American Welding Society	1EWArc Welding Greg Winchester	Wayne Hoffman – ESAB Welding & Cutting Products Frank Stupczy – Lincoln Electric	NEMA EW 1, EW 3, EW 4	Frank Stupczy Lincoln Electric 22801 St. Clair Ave. Cleveland, OH 44117 216/481-8100 stupczy@lincoln- electric.com	Greg Winchester
ISO TC184Industrial Automation Systems and Integration	1 IS Automation Products and Systems Greg Winchester	Ron Reimer Rockwell Automation 1201 South 2nd St. Milwaukee, WI 53204 414/382-2227 414/382-4949 rhreimer@ra.rockwell.com		Ron Reimer Allen-Bradley 1201 South 2nd St. Milwaukee, WI 53204 414/382-2227 414/382-4949 rhreimer@ra.rockwell.com	Greg Winchester
ISO TC184/SC5Architecture and Communication	1 ISAutomation Products and Systems Greg Winchester	Ron Reimer Rockwell Automation 1201 South 2nd St. Milwaukee, WI 53204 414/382-2227 414/382-4949 rhreimer@ra.rockwell.com		Vacant	Greg Winchester
ISO TC184/SC5/WG2Communications and Interconnections	1 ISAutomation Products and Systems Greg Winchester	Dan Carnahan Rockwell Automation 1 Allen-Bradley Dr. Mayfield Heights, OH 44124	ANSI/EIA 511		

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