Scope: Treatment of all matters Energy Society and associated Groups and Societies of the in which the dominant factors are the application, design, construction, and operation of protective, regulating, monitoring, synchronism-check, synchronizing, reclosing, and auxiliary relays, including all matters necessary to the function of such relays and relaying systems employed in the generation, transmission, distribution, and utilization of electrical energy and including the effects of such relays on system operation. Treatment of techniques and requirements for communications within, between, and among protective relays, to the extent that these communications affect protection functions or performance. Maintenance of liaison and collaboration as required with other committees of the Power & Energy Society of the IEEE. Web Site: http://www.pes-psrc.org/

Officers:

P.G. Mysore, Chair

R. W. Patterson, Vice chair

Dr. Murty Yalla, Secretary

A.Mulawarman, Standards Coordinator

Members

Adamiak, M. G.
Allen, E.
Anderson, B.B.
Antonova, G.S.
Apostolov, A. P.
Bartok, G.J.
Basler, M.
Beckwith, T.R.
Begovic, M.
Benmouyal, G.
Benou, M.R.
Brahma, S.
Brunello, G.A.
Brunner, C.
Bui, D-P
Bukhala, Z.
Burnworth, J.
Carpenter, W. M.
Carroll, P.T.
Cease, T.W.
Chaudhary, A.K.S
Chelmecki, C.
Conrad, S. P.
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Cunico, R.
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Das, R.
Dempsey, R. W.
Deronja, A.
Dickerson, B.
DoCarmo, H.
Donahoe, K.
Doood, M.
Elkin, P.
Fennell, E. C.
Finney, D.
Fischer, N.
Foder, K.
Fontana, D.
Fredrickson, D.
Friend, F. A.
Garcia, R.
Gers, J.
Giarratano, D.
Gilletland, H.
Hackett, J.
Hamilton, R.
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Hedding, R. A.
Henneberg, G.
Henville, C. F.
Holbach, J.
Houser, K.
Hu, Y.
Hunt, R.
Huntley, C.
Imai, S.
Jodice, J.A.
Kao, M.
Kim, S.
Kobet, G.
Kojovic, L.
Kumar, P.
Kunsman, S.A.
Lascu, R.
Long, J.
Lukach, D.
Madani, V.
Mackie, B.
Magruder, B.
Makki, A.
Martin, A.
Martin, K.
Martin, P.
McCannon, W.
McDonald, M.
McLaren, P. G.
Meisinger, M.
Midence, R.
Miller, D.H.
Monterrubio, H.
Mooney, J.
Moskos, G.
Mugalian, B.
Mualawarman, A.
Mysore, P.
Nagpal, M.
Nemeir, M.
Niemira, J.
Novosel, D.
O’Brien, J.M.
Patterson, R.
Patti, C.
Pettigrew, R.
Pickett, B.A.
Pond, J.
Rahmatian, F.
Ranieri, M. M.
Ray, R.E.
Recker, D.
Reichard, M.L.
Ruckman, C.
Sambasivan, S.N.
Sanders, M.
Schroeder, M. S.
Sciaccia, S.
Seegers, T.
Sufana, C. R.
Swanson, M. J.
Sykes, J.A.
Tengdin, J. T.
Thakur, S.
Thompson, M.
Tualla, I.
Tziouvaras, D. A.
Uchiyama, J. T.
Urbe, A.
Vandiver, B.
Venkata, S.S
Voloh, I.
Ward, S.
Whittaker, R.L.
Yalla, M.
Young, R.C.
Wang J.
Winston, P.B.
Zhang, Z.
Zimmerman, K

Honorary Members

Appleyard, J. C.
Beresh, R.
Boyle, J. R.
Bright, J. A.
Brownlee, W. R.
Dawson, D. C.
Dietrich, R. E.
Dingler, J. B.
Esztgeryalos, J.
Feero, W. E.
Giulianti, A. T.
Haas, R. W.
Horowitz, S. H.
Ibrahim, M.
Ingleston, J. W.
Jackson, B.
Johnson, G.F.
Koenfeger, J
Lowe, W. G.
Marieni, G. J.
Mathews, C. A.
May, G. E.
Michelson, E. L.
Mozina, C. J.
Murphy, J. J
Nail, G. R.
Niessink, T.
Parr, G.
Phadke, A.G.
Pumphrey, O. F.

B1: AWARDS AND TECHNICAL PAPER RECOGNITION

Assignment: Nominate PSRC-sponsored papers, standards, and reports for PES Technical Council and IEEE awards. To nominate individual members for award recognition. (Sub Committee Vice Chairs)

H. Monterrubio., Chair

M. Swanson, Vice Chair

MJ Swanson Assoc

Benou, M.
Finney, D.
Henneberg, G.
Long, J.
Pickett, B.
Swanson, M.
Zimmerman, K.

Rockefeller, G. D.
Sachdev, M. S.
Stephens, J. E.
Taylor, R. P.
Thorp, J. S.
Volzka, D. R.
Zulaski, J. A.

P. Mysore, Chair

R. Patterson, Vice chair

Patterson Power Engineers

Chattanooga, TN 37419

Beckwith Electric Co. Inc.

Largo, FL 33773

Xcel Energy

Minneapolis, MN 55401

Minneapolis, MN 55416
B2: FELLOWS AWARDS
Assignment: Assist PSRC sponsors with advice on the Fellow nomination process. To access the background of Fellow nominees and aid the PSRC in preparation of required documents.

C. F. Henville, Chair
Henville Consulting Inc.
Delta, BC, V4M 2N5, Canada

B3: MEMBERSHIP
Assignment: Provide assistance in searching for new participants who have qualifications for eventual membership. Assist in maintaining diversity of expertise among active members and participants. Provide assistance, where appropriate, for those needing help gaining support for continued membership. They are to advise the Officers of PSRC if any changes in the organization and operation of the PSRC are desirable. The membership of the Long Range Task Force is limited to ex-Chairs of PSRC.

M. J. Swanson, Chair
M.J. Swanson Associates
Windham, NH 03087

C. Dalton, Co-Chair
EPRI
Duluth, GA

B4: O&P MANUAL REVISION AND WORKING GROUP CHAIR TRAINING
Assignment: Revise and amend PSRC Organization and Procedure Manual when directed to do so by the PSRC Chair. Conduct working group Chair forums on procedures and training.

P. B. Winston, Chair
Southern Company
Peachtree Corners, GA

R. Hunt, Vice Chair
GE Multilin
Apex, NC

B5: PUBLICITY WORKING GROUP
Assignment: Preparation of such articles as may be required for the promotion of more general knowledge about the relaying art and the work of the PSRC. Promote the sales of selected IEEE standards, guides, and special publications at technical meetings and conferences. Promotion of PSRC meetings at local Universities and PES chapters.

T. S. Sidhu, Chair
M. Naggpal, Vice Chair
B.C. Hydro
Burnaby, Canada

B8: LONG RANGE PLANNING
Assignment: The primary function of the Long Range Task Force is to act in an advisory capacity to the Chair of the PSRC. They will discuss and analyze developments in various fields of Electric Power Engineering as they affect the activity of the Power System Relaying Committee. They are to advise the Officers of PSRC if any changes in the organization and operation of the PSRC are desirable. The membership of the Long Range Task Force is limited to ex-Chairs of PSRC.

M. McDonald, Chair
Ameren Services
St. Louis, MO 63166

Dempsey, R. W., Washington, DC
Henville, C. F., Delta, BC
Petittrew, R. D., Asheville, NC
Phadke, A. G., Blacksburg, VA
Sanders, M. P., Asheville, NC
Taylor, R. P., Fletcher, NC
Winston, P. B., Forrest Park, GA

B9: PSRC WEB SITE
Assignment: Provide assistance in setting up Web Sites and maintaining the PSRC Web Site.

R. W. Patterson, Chair
Patterson Power Engineers
Chattanooga, TN 37419

C: SYSTEMS PROTECTION SUBCOMMITTEE
SCOPE: Evaluate protection system responses to abnormal power system states. Evaluate and report on special protection schemes, remedial actions, schemes, monitoring and control systems and their performance during abnormal power system conditions. Recommend corrective strategies and develop appropriate standards, guides, or special publications. Evaluate and report on new technologies which may have a bearing on protection system performance during abnormal power system conditions.

G. Henneberg, Chair
NV Energy
Reno, NV

F. Friend, Vice Chair
American Electric Power
Columbus, OH

Antonova, G.
Apostolov, A.
Brahma, S.
Cease, T. W.
Cunico, R.
Deronja, A.
Friend, F.
Garcia, R.
Gharpure, V.
Hackett, J.
Henville, C. F.
Houser, K.
Hu, Yi.
Hunt, R.
Imai, S.
Johnson, A.
Lascu, R.
Madanvi, V.
McLaren, P. G.
Meisinger, M.
Miller, D.
Mooney, J.
Myrda, P.
Rahmatian, F.
Seevers, T.
Sykes, J.
Tualia, I.
Tziouvaras, D. A.
Uden, E. A.
Vandiver, B.
Ward, S.
Winston, P. B.

C2: Role of Protective Relaying in the Smart Grid
Assignment: Identify the functions and data available in Protective Relaying Devices that are used at different functional levels and different applications and can be used within a Smart Grid. Describe the use of interoperable data formats for protection, control, monitoring, recording, and analysis.

A. P. Apostolov, Chair
Omicron
Los Angeles, CA

R. Moxley, Vice Chair
Siemens
Collax, WA

Antonova, G.
Beaumont, P.
Brahma, S.
Bryant, C.
Dalton, C.

Donahoe, K.
Friend, F.
Garcia, R.
Gers, J.
Jenkins, D.
Jester, J.
Jodice, J.
Kockott, M.
Lascu, R.
Martin, A.
Meisinger, M.
Mualawarman, A.
Myrda, P.
Novosel, D.
Pathirana, V.
Sorensen, D.
Soudi, F.
Vandiver, B.
Venkata, M.
Vezrosa, J.
Villasmil, D.
Ward, S.
Wong, C.

C18. Guide for Protection Systems of Transmission to Generation Interconnections
Assignment: Write an IEEE Guide for Protection Systems of Transmission to Generation Interconnections.

A. Deronja, Chair
American Transmission
Waukesha, WI

K. Houser, Vice Chair
Dominion VA Power
Richmond, VA

Antonova, G.*
Bapary, A.
Barsh, J.
Buscot, D.*
Cunico, R.
English, W.
Fontana, D.
Fredrickson, D.
Gulczynski, N.
Jensen, M.
Johnson, G.*
Liao, Y.
Malson, H.
Midence, R.*
Miller, D.
Miller, J.
Mualawarman, A.*
Nagpal, M.
O’Brien, J.
Patel, Mahendra
Patel, Manish
Torres, N.
Tualia, I.
Uchiyama, J.
Valenzuela, J.
Ward, S.
Young, R.

C19. Phasor Data Concentrators
Assignment: Develop a Standard for Phasor Data
Concentrators for power systems

V. Gharpure, Chair
Quanta Technology
Cary, NC

M. Kanabar, Vice Chair
General Electric
Markham, ON, Canada

Adamiak, M.*
Agrawal, P.*
Antonova, G.*
Brancaccio, D.*
Carrol, R.*
Chohan, S.*
Dwyer, D.
Goldstein, A.*
Hu, Y.*
Huang, Z.*
Johnson, A.*
Kirkham, H.
Maragai, D.
Martin, K.*
Miller, J.*
Murphy, J.*
Otto, J.
Patel, M.
Skendic, V.*
Vandiver, B.*
Weeks, T.*

C20: Impact of HVDC Transmission on Protective Relaying
Assignment: Develop a report to the PSRC describing Voltage Source Converter (VSC) HVdc systems and the impact on local AC system protection.

J. Mooney, Chair
Power Engineers, Inc
Portland, OR

I. Tualla, Vice Chair
Duke Energy
Charlotte, NC

Beaumont, P.
Fischer, N.
Hilaty, M.
Houser, K.
Johnson, B.
Kirkham, H.
Manna, T.
McLaren, P.
Mucha, M.
Samineni, A.
Subramanran, S.
Vo, C.
Ward, S.
Wilson, J.
Zinck, P.

C21: Guide for Engineering Implementation and Management of SIPS
Assignment: Develop an IEEE Guide for Engineering Implementation, and Management of System Integrity Protection Schemes

Y. Hu, Chair
Quanta Technology
Raleigh, NC

G. Henneberg, Vice Chair
NV Energy
Reno, NV

Allen, E.
Apostolov, A.
Ayudelo, L.
Beaumont, P.
Botero, L.
Brahma, S.
Calero, F.
Castano, J.
Deronja, A.
Diemunsch, V.*
Falk, H.
Gagnon, J.*
Galal, D.*
Henville, C.*
Johnson, A.
Kawano, F.*
Maison, H.
Midence, R.*
Miller, D.
Moxley, R.*
Omi, S.
Park, J.
Patel, Manish
Patel, Mahendra
Phillippe, T.
Quintana, A
Ren, Z.
Seegers, T.
Shi, B.
Thorton-Jones, R.*
Wang, A.*
Watare, A.*
Whittaker, R.

C22: Coordination of Synchrophasor Related Activities
Assignment: The ongoing task force will provide three main functions:

- Liaison with NASPI (North American Synchrophasor Initiative) (specifically the PRSVTT (Performance Requirements, Standards and Verification Task Team)) to keep the PSRC in sync with the changes and needs in the industry with respect to the development and usage of PMU devices. Formalize transfer process of PRSVTT developed documents to PES PSRC including making recommendations which PRSVTT activities should be transferred to IEEE reports, guides and standards.

- Make recommendations to PSRC for assignments that would require the creation of working groups in PSRC and also recommend what the output of those working groups might be (Guides, reports, etc.) based on the needs of the industry.

- Coordinate related activities with other IEEE PES committees.

A. Johnson, Chair
Southern California Edison

A. Goldstein, Vice Chair
NIST
Gaithersburg, MD

Dwyer, D.
Gharpure, V.
Hackett, J.
Hu, Y.
Kirkham, H.
Madani, Vahid
Martin, K.
Murphy, J.
Myrd, P.
O’Brien, J.
Patel, M.

C24: Modification of Fault Study Programs for Wind Turbine Generators
Assignment::
1) To survey WTG manufacturers to determine what parameters they could provide that could be used by steady state short circuit program developers in various time frames.

2) Use the result of this survey to prepare a report that can be used by steady state program developers to refine their models.

S. Brahma, Chair
NMSU
Las Cruces, New Mexico

E. Farantatos, Vice Chair
EPRI
Palo Alto, CA

Aquiles-Perez, S.
Chan, S.
Guerrero, M.
Henville, C.
Houser, K.
Jalali, M.
Lascu, R.
Liao, Y.
Lien, J.
Miller, D.
Patel, Manish,
Patel, Mahendra
Peng, C.
Qui, J.

C25: Protection of Wind Plants
Assignment: Write a report to provide guidance on relay protection and coordination at wind electric plants. This report will cover protection of generator step up transformers, collector system feeders, grounding transformers, collector buses, reactors, capacitors, main station transformers, tie lines and points of interconnection and associated arc flash issues. Although the report will address coordination with wind turbine generator protective devices and static var sources, the protection of the wind turbine generators and static var sources will not be included.

M. Best, Chair
UC Synergetic

K. Houser, Vice Chair
Dominion VA Power
Richmond, VA

Antonova, G.
Boynton, B.
Brahma, S.
Buchanan, D.
Farantatos, E.
Fredrickson, D.
Gers, J.
Henville, C.
Hunchuk, D.
Kanabar, M.
Lascu, R.
Liao, Y.
Midence, R.
Miller, D.
Niemira, J.
Powers, A.
Vico, J.
Zamani, A.

C26: Revision of C37.233, Protection System Testing Guide
Assignment: Revise C37.233 Power System Protection Testing Guide

D. Ware, Chair
Power Grid Engineering

M. Black, Vice Chair
Sargent & Lundy

Uribe, A.
Beach, D.
Bhat, S.
Bloder, N.
Boyson, B.
Brown, J.
Casilla, N.
Cavalheira, E.
Cooper, S.
Donahoe, K.
Garcia, R.
Gosalia, J.
Henneberg, G.
Jester, J.
Kim, S.
Lee, A.
Liao, Y.
Madani, V.
McHale, E.
Moore, B.
Polanco, L.
Seegers, T.
Siira, M.
Shock, E.
Short, S.
Stojak, M.
Turner, S.
Stojak, M.
Turner, S.
Urbe, A.
Vang, T.
Verzosda, J.
Weyer, G.
Wong, C.
Young, R.

C26: IEEE Guide for Synchronization, Calibration, Testing and Installation of PMUS

Assignment: Revision of the IEEE guide which provides guidance for synchroniziation, calibration, testing, and installation of phasor measurement units (PMUs) applied in power system protection and control. The following are addressed in this guide:

a) Test and calibration procedures for PMUs for laboratory and field applications. These procedures have been superseded by another IEEE document and will be revised or deleted as appropriate.

b) Considerations for the installation of PMU devices based on application requirements and typical bus configurations. New lessons learned since the publication of this guide may be accounted for in a revision to the guide.

c) Techniques focusing on the overall accuracy and availability of the time synchronization system. New technologies and further information about synchronization may be accounted for in a revision to the guide.

d) Communications testing for connecting PMUs to other devices including Phasor Concentrators (PDCs).

Assignment: Prepare a report that will investigate and assess techniques, approaches, and potential solutions to the challenges of microgrid protection.

A. Goldstein, Chair
NIST
Gaithersburg, MD

H. Kirkham, Vice Chair
PNNL

Brunello, G.
Dickerson, B.
Dwyer, D.
Friend, F.
Ghanpure, V.
Quilette, D.

C29 Testing Out of Step Impedance Characteristics for Line and Generators

Assignment: Create a report on test instructions / parameters to accompany the PSRC documents Application of Out-Of-Step Protection Schemes for Generators and Tutorial on Setting Impedance Based Power Swing Blocking and Out of Step Tripping Functions on Transmission Lines to aid the users in quality testing of their settings and systems when following the working group outputs which recommend testing of complex relay settings and systems.

H. Maisoan, Chair
Amarillo, TX

M. Kockott, Vice Chair
ABB

Aquiles-Perez, S.
Carvalheira, E.
Casilla, N.
Das, R.
Dempsey, B.
Fowler, R.
Gulczynski, N.
Henneberg, G
Hilaly, M.
Jones, K.
Kobet, G.
LeV.
Maragol, D.
Omi, S.
Polanco, L.
Ren, Z.
Sykes, J.
Turner, S.
Tziovaras, D.
Vandelit, J.
Vandiver, B.
Verzosa, J.
Wilson, J.
Yang, L.

C30 Microgrid Protection Systems

Assignment: Preparation of a guide which provides guidance for microgrid protection.

M. Higginson, Chair
S&G Electric

F. Friend, Vice Chair
American Electric Power

Apostolov, A.
Ashrafi, A.
Bloder, M.
Brahma, S.
Burnworth, J.
Das, R.
Deaton, J.
Dong, X.
Fowler, R.
Garcia, R.
Haas, D.
Hamilton, R.
Hedding, R.
Jensen, J.
Khan, S.
Kockott, M.
Kojovic, L.
Lascu, R.
Liao, Y.
Mackie, B.
Madani, V.
Narendra, K.
Niemira, J.
Novosel, D.
Omi, S.
Oubidir, M.
Ryan, K.
Song, E.
Sykes, J.
Venkata, M.
Wang, B.
Yang, L.
Zamani, A.

C31: Guide for Protection System Redundancy for Power System Reliability

S. Ward, Chair
Quanta Technology
Raleigh, NC

A. Deronja – Vice Chair
American Transmission Co
Waukesha, WI

C32: Protection Practices for Interconnecting Solar or Other Inverter Based Generation to Utility Transmission Systems

J. Eaton, Chair
Southern Co. Transmission
Forest Park, GA

C33: Considerations in Choosing Directional Polarizing Methods for Ground Overcurrent Elements in Line Protection Applications

D. Line Protection Subcommittee

Scope: Investigating and report on the relaying techniques and systems used for transmission and distribution (T&D) line protection. Develop statistics and recommend protection practices for improving line relaying performance. Develop and maintain standards for line protection.
Assignment: Prepare a report to the PSRC on identifying different polarizing methods, address issues related to the application of different methods, and make recommendations in choosing the polarizing method.

M. Kao, Chair
Patterson Power Engineers
Chattanooga, TN 37419

E. Price, Vice Chair
Dawsonville, GA.

Appleyard, J.
Barsch, J.
Bennouyal, G.
Buano, A.
Crelin, R.
Fisher, N.
Frye, R.
Henville, C.
Khan, S.
Kobet, G.
Lee, A.
Lukach, D.
McCannon, W.
Mooney, J.
O'Brien, J.
Paduraru, C.
Patel, S.
Patterson, R.
Plumptre, F.
Revellie, R.
Saygili, S.
Schroeder, M.
Turner, S.
Wilmetd, R.

D6: Transmission Line Model Parameter Validation

Assignment: The WG will prepare a report to the main committee on the processes, issues, problems and methodology of validating software parameters for AC transmission lines used for relaying. The report will not include details of relay curve models or other similar relay modeling. The report will also not include specific EMTP modeling.

T. Seegers, Chair
Ameren
Decatur, IL 62526

S. Sambasivan, Vice Chair
New York, NY.

Bartok, G.
Behrendt, K.
Cornelison, R.
Crelin, R.
Do Carmo, H.
Fisher, N.
Guillante, A.
Horton, R.
Kao, M.

Lukach, D.
Mackie, B.
Miller, J.
Myssore, P.
Nagpal, M.
Turner, S.
Tziovuraras, D.
Uchiyama, J.
Voloh, I.
Zhang, Z.

D19: REVISION OF PC37.113-DRAG GUIDE FOR PROTECTIVE RELAY APPLICATIONS TO TRANSMISSION LINES

Scope: Concepts of transmission line protection are discussed in this guide. Applications of these concepts to various system configurations and line termination arrangements are presented. Many important issues, such as coordination of settings, operating times, characteristics of relays, impact of mutual coupling of lines on the protection systems, automatic reclosing and use of communication channels are examined. Special protection systems, multi-terminal lines and single phase tripping and reclosing are also included. The impact that system parameters and system performance have on the selection of relays and relay schemes is discussed as well.

Purpose: The purpose of this guide is to provide protection engineers with information that helps them to properly apply relays and other devices to protect three-phase high-voltage transmission lines

R. Taylor, Chair
Asheville, NC 28803

D. Lukach, Vice-Chair
Decatur, IL

Austin, T.
Barsch, J.
Best, M.
Brunello, G.
Cirka, D.
Conrad, S.
Cunico, R.
Deaton, J.
Deronja, A.
Fisher, N.
Fontana, D.
Mc Cannon, W.
Mezco, A.
Miller, D.
Miller, J.
Mooney, J.
Nagpal, M.
O'Brien, J.
Ouellette, D.
Patti, C.
Price, E.
Sachdev, M.
Sambasivan, S.
Tatro, P.
Thompson, M.
Tualia, I.
Tziovuraras, D.
Uchiyama, J.
Voloh, I.
Zhang, Z.


S. Ward, Chair
Quanta Technology
Raleigh NC 27607

B. Mackie, Vice Chair
Nashville, TN

Beaumont, P.
Calero, F.*
Crelin, R.*
Deronja, A.
Higginbotham, B.
Ince, R.
Jankovic, I.
Kojovic, L.
Lee, A.
Lukach, D
Moxley, R.
Mukesh, N.*
Pathirana, V.
Perez, J.
Purpura, D.
Revellie, R.
Sambasivan, S.
Schroeder, M.
Stojak, M.
Tualia, I.
Tziovuraras, D.*
Uchiyama, J.
Verzosa, J.
Voloh, I.
Ware, D.

D28: Revision of C37.230 Guide for Protective Relay Applications to Distribution Lines

Assignment: Revise the C37.230-2007 Guide

B. Boysen, Chair
We Energies
Milwaukee WI 53203

C. Patti, Vice-Chair
Power Engineers
Portland, OR

Aldrich, D.
Best, M.

D9: Tutorial on Setting Impedance-Based Power Swing Blocking and Out-of-Step Tripping

Assignment: Create a tutorial on setting impedance-based power swing blocking and out-of-step tripping for applications. Specific relay settings examples will be provided. Other methods of detecting out summarized and referenced, but will not be discussed in detail.

K. Jones, Chair
Xcel Energy
Amarillo, TX

N. Fischer, Vice-Chair
Schweitzer Engineering Laboratories
Pullman, WA

Anderson, J.
Aquiles-Perez, S.
Blumschein, J.
Bradley, J.
Castano, J.
Gopalakrishnan, A.
Hilaj, M.
Jones, K.
Kao, M.
Kirby, B.
Kobet, G.
Le, V.
Matson, H.
Patel, M.
Perkins, J.
Qiu, Q.
Tatro, P.
Tziovuraras, D.
Velez, J.
Verzosa, J.

D30: Tutorial on Application and Setting of Distance Elements When Subjected to Distorted Waveforms

Assignment: Write a tutorial on the application and setting of mho and quadrilateral distance elements on transmission lines when subjected to distorted waveforms or other unique applications.

K. Zimmerman, Chair
limited number of example systems will be evaluated.

**D35: EVALUATION OF TRANSMISSION LINE PILOT PROTECTION SCHEMES**
Assignment: Prepare a technical report to the line protection subcommittee to evaluate advantages and disadvantages of common transmission line pilot protection schemes, including POTT, DCB, DCUB, and line current differential. The schemes will be evaluated in terms of speed, sensitivity, dependability and security based on the design and configuration of transmission lines and system topology. A limited number of example systems will be evaluated.

**M. Kockott, Chair**

**H: RELAYING COMMUNICATIONS SUBCOMMITTEE**
Scope: Evaluate and report on the characteristics and performance of protective relaying communications. Recommend communication requirements and operating and test procedures which assure reliable performance of the overall protective system. Report on new relaying equipment designs tailored to specific communications requirements.

**E. Allen, Chair**

**R. Gamble, Chair**

**TVA**

**Chattanooga, TN**

**N. Gulczynski, Vice Chair**

**American Transmission Co**

**D36: PC37.113 DRAFT GUIDE FOR PROTECTIVE RELAY APPLICATION TO TRANSMISSION LINES**
Scope: Develop a summary paper and presentation describing C37.113 Guide for the Application of Digital Line Current Differential Protective Relays Using Digital Communications to be used at protective relaying conferences

**B. Mackie, Chair**

**Nashville Electric Service**

**Nashville, TN**

**C. Palmer, Vice Chair**

**RFL**

**Boo ton, NJ**

**D34: Coordinate with IEC-60255-187-3 Functional Specification for Line Current Differential**

**N. Fischer, Chair**

**SEL**

**Little Brasdor, Canada**

**D. Lukach, Vice Chair**

**Ameren Illinois**

**Decatur, IL**

**D37: Impact of Series Compensation on Transmission Lines**

**J. Barsch, Chair**

**AEP**

**Tulsa, OK**

**L. Polanco, Vice Chair**

**GE**

**Schenectady, NY**

**DTF37: Investigate The Need for WG for Effect of Series Compensation on Line Protection**

**M. Kockott, Chair**

**L. Polanco, Vice Chair**

**GE**

**Schenectady, NY**

**H1: PC37.236 A GUIDE FOR APPLICATION OF DIGITAL TELEPROTECTION**
Assignment: Prepare a report on the impact of series compensation on transmission line protection

**M. Kockott, Chair**

**H3: PC37.237 TIMETAGGING IN PROTECTION AND DISTURBANCE RECORDING IEDS**
Assignment: Develop an IEEE Standard for time tagging for power system IEDs. This will include common requirements for time tags and show how to apply them to various classes of time sequence data. Requirements and methods for stating the resulting time accuracy will be included. Join with Substations Committee C4.

**B. Dickerson, Chair**

**Arbiter Systems**

**Cranbrook, BC, Canada**

**J. Hackett, Vice Chair**

**Eldridge, Iowa**

**M. Lacroix, Chair for SC C4**

**Montreal, Quebec, Canada**

**Assignment:** Develop a guide for application of digital communications for protective relaying systems and schemes, including transmitting and receiving equipment, digital channels, application principles, performance, installation, troubleshooting, testing and maintenance.

**M. Benou, Chair**

**INIVEN**

**Somerville, NJ 08876**

**I. Voloh, Vice Chair**

**Markham, ON, Canada**

Dahlin, T.
Ebrecht, J.
Finley, J.
Fodero, K.
Ince, B.
Ray, R.
Simon, M.
Swanson, M.
Ward, S.

**Assignment:** To develop a summary paper and presentation describing C37.243 Guide for the Application of Digital Line Current Differential Protective Relays using Digital Communications.
Assignment: Write a report to the H Subcommittee on application testing of IEC 61850 based protection and control systems. Emphasis will be on the GOOSE functions.

C. Sufana, Chair
G.E. Digital Energy
Huntington Beach, CA 92647

B. Vandiver, Vice Chair
Houston, TX 77054

Adamiak, M.
Agudo, M.
Agullar, R.
Anderson, J.
Anderson, S.
Apostolov, A.
Becker, F.
Benmouyal, G.
Bolado, O*Bougie, J.
Brunner, C.
Bui, D-P.
Buneo, J.
Burger, J. *
Chan, M.
Chelmecki, C.
Dood, M.
Dunselson, E.
Easley, K.
Ellis, A.
Falk, H.
Giarratano, D. *
Gosalia, J.
Graf, R.
Greeko, G.
Grimm, J.
Gunther, E.
Hobach, J.
Huntley, C.
Jalali, M.
Kanabar, M.
Kunschman, S.
Lacroix, M.
Lee, A.
Liposchak, R.
Lu, Y.
Mar, J.
Maragal, D.
Martin, A.
Musunuri, B.
Musunuri, S.
Niemi, J.
Nordell, D.
Oubidar, M. *
Perez, J.
Reckerd, D.
Shankarapuasundaram, V.
Short, S.
Simon, M. *
Skendzic, V.
Tengdin, J.
Tessier, D.
Thibodeau, E.
Thompson, S.

Thornton-Jones, R. *
Verzosa, J.
Vo, C.
Ware, D.
Wong, C.
Yuan, T. *
Zubair, M. *

H11: REVISION OF C37.118.1 SYNCHROPHASOR MEASUREMENT STANDARD


K. Martin, Chair
Electric Power Group
Portland, OR 97213

A. Goldstein, Vice Chair
Gaithersburg, MD

Antonova, G.
Brunello, G.
Das, R.
Dickerson, B.
Dwyer, D.
Gosalia, J.
Hu, Y.
Kirby, B.
Kirkham, H.
Lacroix, M.
Luo, S.
Murphy, J.
Narendra, K.
Ouellette, D.
Patel, M.
Shi, B.
Skendzic, V.
Stenbakken, J.
Udren, E.
Zhang, Z.

H12: CONFIGURING ETHERNET COMMUNICATIONS EQUIPMENT FOR SUBSTATION PROTECTION AND CONTROL APPLICATIONS

Assignment: Develop a report to assist protection engineers in configuring Ethernet LANs and networking equipment when the network traffic includes critical protection messaging such as IEC 61850 GOOSE messaging. Topics include switch and router configuration, VLANs, security, priority queuing, traffic monitoring and control, and topology choices and redundancy.

E. Udren, Chair
Quanta Technology, LLC

Pittsburgh, PA 15228

B. Vandiver, Vice Chair
Houston, TX

Antonova, G.
Anderson, J.
Antonova, G.
Apostolov, A.
Beaumont, P.
Beresh, R.
Brunner, C.
Calero, F.
Chelmecki, C.
Dahlin, T.
Dood, M.
Falk, H.
Giarratano, D.
Huntley, C.
Johnson, T.
Lacroix, M.
Maragal, D.
Martin, A.
Ray, R.
Skendzic, V.
Tengdin, J.

H17: ESTABLISHING LINKS BETWEEN COMTRADE, IEC 61850 AND CIM

Assignment: Develop a standards-based approach to link IEC 61850, CIM and COMTRADE so that the COMTRADE channels can be associated to a node in the power network.

C. Brunner, Chair
it4power
Switzerland

A. Apostolov, Vice Chair
Los Angeles, CA

Adamiak, M.
Allen, E.
Falk, H.
Guaci, A.
Hamilton, R.
Hobach, J.
Hu, Y.
Ingleson, J.
Jalali, M.
Jenkins, D.
Maragal, D.
Murphy, I.
Narendra, P.
Narendra, K.
O’Connell, D.
Richards, S.
Sabin, D.
Shanmugasundaram, V.
Takahiro, K.
Taylor, M.
Tibbals, T.
Tuballa, R.
Udren, E.
Vandiver, B.
Vaseldev, B.
Verzosa, J.

H22: GUIDE FOR CATEGORIZING SECURITY NEEDS FOR PROTECTION AND AUTOMATION RELATED DATA FILES

Assignment: Develop an IEEE Guide on security for data files used for configuration, management and analysis of protective relaying systems.

A. Makki, Chair
offStuf
Philadelphia, PA

C. Calix, Vice Chair
EON US
Lexington, KY

Calix, C.
Cease, T.W.
Chelmecki, C.
Cornelison, R.
Dood, M.
Easley, K.
Fauchon, M.
Gianfrate, D.
Holstein, D.
Johnson, T.
Kunschman, S.
Makki, A.
Madani, V.
Miller, J.
Reckerd, D.
2017 IEEE POWER and ENERGY SOCIETY COMMITTEE DIRECTORY

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Saia, N.
Sufana, C.
Taylor, M.
Tibbals, T.

T. Tibbals, Chair for SC C7

Winlaw, BC, Canada

H23: GUIDE FOR NAMING INTELLIGENT ELECTRONIC DEVICES (COMDEV)


R. Cornelison, Chair
Power Grid Engineers
Birmingham, AL

E. Allen, Vice Chair
Delanson, NY

H24: REVISION OF C37.238-2011


G. Antonova, Chair
ABB Inc.
Burnaby, BC V5J 5J2 Canada

T. Tibbals, Chair for SC C7
Pullman, WA

B. Dickerson, Vice Chair
Winlaw, BC, Canada

H25: REVISION OF C37.94-2008


M. Benou, Chair
INIVEN
5 Columbia Road
Somerville, NJ 08876

D. Jenkins, Vice Chair
Stafford, UK

H27: STANDARD FILE FORMAT FOR IED CONFIGURATION DATA (COMSET)

Assignment: Develop a standard XML based file format for exchange of protection and control configuration data between engineering tools and asset management tools. The modeling and naming conventions should be based on the definitions and extension rules defined in IEC 61850.

C. Chelmecki, Chair
Basler Electric Co.
Highland, IL 62249

B. Vasudevan, Vice Chair
ABB
Raleigh, North Carolina

Allen, E.
Apostolov, A. P.
Black, M.
Blumschein, J
Casilla, N.
Cornelison, R.
Dood, M.
Landheer-Cieslak, R.
Norman, R.
Olivera, A.
Perez, J.
Preuss, C.
Qiu, Q.
Thibodeau, E.
Vandiver, B.
Verzosa, J.

H30: IEC 61850 USER FEEDBACK

Assignment: This forum is to discuss technical issues encountered by North American end-users while implementing IEC 61850 based substation automation system and highlight the key challenges/solutions to manufacturers and IEC TC57 working group-10. These issues could be in design, maintenance and testing domains.

D. Maragal, Chair
New York Power Authority
White Plains, NY

T.B. D. Vice Chair

Anderson, J.
Apostolov, A.
Becker, F.
Billimoria, N.
Brunner, C.
Burkart, D.
Cenzon, E.
Falk, H.
Farquharson, R.
Gohari, J.
Holbach, J.
Huntley, C.
Jay, G.
Jenkins, D.
Kanabar, M.
Kunsman, S.
Liposchak, R.
Myrda, P.
Mulawarman, A.
Narendra, K.
Qui, Q.
Schock, E.
Shah, P.
Udren, E.
Xavier, J.
Wilson, B.
Wong, C.
Xavier, J.

H31: COMMON PROTECTION & CONTROL PARAMETERS FOR COMSET

Assignment: Develop generic models and parameters of protection functions.

D. Maragal, Chair
New York Power Authority
White Plains, NY

A. Apostolov, Vice Chair
Los Angeles, CA

Aldrich, D.
Allen, E.
Blumschein, J.
Brunner, C.
Burkart, D.
Cenzon, E.
Chelmecki, C.
Gohari, J.
Gosalia, J.
Jenkins, D.
Kanabar, M.
Mohammad Dadash Zadeh Narendra, K.
Olivera, A.
Qui, Q.
Tessier, D.
Turner, S.
Uchiyama, J.
Verzosa, J.
Xavier, J.

H32: PERFORMANCE REQUIREMENTS FOR TELEPROTECTION OVER ETHERNET

Assignment: To prepare a report on the use of Ethernet transport for teleprotection services and line current differential protection.

K. Fodero, Chair
SEL Inc.

W. McCannon, Vice Chair
SOUTHERN COMPANY
ATLANTA, GA

Anderson, J.
Antonova, G.
Apostolov, A.
Beaumont, P.
Benou, M.
Blumschein, J.
Brown, J.
Cooke, R. *
Dahlin, T.
Gresko G.
Huntley, C.
Jenkins, G.
Keating, M. *
Palmer, C.
Pickett, B.
Ray R.
Reckerd, D.
Rodriguez, J.
Shono T.
Tran, T.
Ward S.
Nordell D.
Udren E.
Assignment: To prepare a report on proposed upgrades to COMTRADE as well as an XML implementation.

M. Adamiak, Chair
GE Grid Automation

Assignment: This guide practice covers the design, installation and monitoring of time synchronization systems in power utility substations. This includes time sources such as Global Positioning Satellite (GPS) and time distribution systems such as InterRange Instrumentation Group - B (IRIG-B), Network Time Protocol/Simple Network Time Protocol SNTP (NTP/SNTP), and Standard Profile for Use of IEEE Std. 1588 Precision Time Protocol in Power System Applications - IEEE STD

J. Bourgie, Chair
GPI, LLC
Cedarburg, WI

H38: DESIGN AND IMPLEMENTATION OF TIME SYNCRONIZATION DISTRIBUTION SYSTEMS FOR SUBSTATION AUTOMATION (P2030.101)

Assignment: This guide practice outlines the necessary steps and procedures a utility should undertake to implement an IEC 61850 device to allow users to implement similar design philosophies between vendors of IEC 61850 equipment.

R. Liposchak, Chair
Power Engineers
Meridian, ID

I: RELAYING PRACTICES SUBCOMMITTEE
Scope: Develop, recommend and establish standards on protective relaying practices which are compatible with the electrical environment, including but, not limited to; relay withstand capabilities to electromagnetic interference, characteristics and performance of instrument transformers, testing procedures, applications, performance criteria, and definitions of relays and relay systems. Evaluate and report on pertinent aspects of protective relaying not addressed by other PSRC Subcommittees. Maintain applicable protective relaying standards.

B. Mugalian, Chair
S&C Electric Company
Chicago, IL 60626

A. Uribe, Vice-Chair
Power Grid Engineering
Lake Mary, FL 32746

Beckwith, T
Bolado, O.
Boyle, J.R.
Burnworth, J.
Carpenter, W.M.
Channarasappa, S.
Dalton, C.
Donahoe, K.
Friend, F.
Garcia, R.
Gilletland, H.
Gosalia, J.
Hackett, J.P.
Jodice, J.
Knapke, W.
Kobet, G.
Kojovic, L.
Lee, A.
Long, J.
Mackie, B.
Magruder, B.
Makki, A.
McLaren, P.G.
Meisinger, M.
Moskos, G.P.
Moxley, R.
Niemira, J.
Pickett, B.A.
Pond, J.
Preuss, C.
Rahmatian, F.
Ranieri, M.M.
Swanson, M.J.
Tengdin, J.T.
Turner, S.
Tiouovaras, D.A.
Uchiyama, J.
Udren, E.A.
Valenzuela, J.
Whittaker, R.
Young, Ray

I2: TERMINOLOGY USAGE REVIEW
Assignment: Review drafts of PSRC publications for proper terminology, abbreviations and symbols; and to recommend additions and changes to the IEEE database as appropriate.

M. J. Swanson, Chair
MJ Swanson Associates
Windham, NH 03087

F. Friend, Vice Chair
Columbus, OH 43215

Black, M.
Bolado, O.
Kifie, A.
Liao, Y.
Patti, C.
Schroeder, M.
Seegers, T.
Whittaker, R. L.

I4: IEC STANDARDS ADVISORY

E. Udren, Chair
Quanta Technology, LLC
Pittsburgh, PA 15228

J. Gosalia, Vice Chair

Adamiak, M.
Beaumont, P.
Bell, T.
Brunello, G.
Bruner, C.
Burnworth, J.
Dwyer, D.
Huntley, C.
Kunsman, S.
Mulawarman, A.
Niemira, J.
Ranieri, M.
Skendzic, V.
Spiewak, E.
Tengdin, J.
Thompson, M.
Vandiver, B.
Voloh, I.
Ward, S.
Yalla, M.

I11: APPLICATION OF OPTICAL INSTRUMENT TRANSFORMERS FOR PROTECTIVE RELAYING

F. Rahmatian, Chair
NuGrid Power Group
W. Vancouver Canada

B. Pickelt, Vice Chair
ECF Consultants
Tequesta, FL

Brune, C.
Cease, T.W.
Henville, C.
Hunt, R.
Madani, V.
McLaren, P.
Mendik, M.
Mugalian, B.
Stewart, D.
Udren, E. A.
Weers, D.

I23: REVISION C57.13 GUIDE FOR FIELD TESTING OF RELAYING CURRENT TRANSFORMERS

Assignment: Revision to Guide C57.13.1

B. Magruder, Chair
KeyTech Engineers
Matthews, NC

W. Knapke, Vice Chair
Omicron
Houston, TX

Aguilar, R.
Bigham, L.
Burnworth, J.
Friend,F.
Halt, G.
Herron, J.
Newman, A.
Salter, C.
Stojak, M.
Strebe, J.
Uchiyama, J.

I24: USE OF HALL EFFECT SENSORS FOR PROTECTION AND MONITORING

J. Niemira, Chair
S&C Electric Co
Chicago, IL
TBD, Vice Chair

Assignment: Prepare a PSRC report

Buffington, J.
Burnworth, J.
Makki, A.
Ranieri, M.
Serati, G.
Stanojevic, A.
Taylor, M.
Zinck, P.

I26: MATHEMATICAL MODELS OF INSTRUMENT TRANSFORMERS
M. Meisinger, Chair
S&C Electric Eurepe Ltd Blaigowrie, Scotland

S. Turner, Vice Chair
San Diego, CA

Assignment: Revise Mathematical Model of Instrument Transformers and expand IEEE Transaction papers and prepare IEEE Report

Chen, Y.
Higgins, M.
Kojovic, G.
Makki, A.
McLaren, P.
Turner, S.
Tziouvaras, D.

I27: INVESTIGATION OF PROTECTIVE RELAY SELF-MONITORING CAPABILITIES
R. Moxley, Chair
Siemens
Collfax, WA

C. Dalton, Vice Chair
EPRI
Duluth, GA

Assignment: Prepare a technical report to the PSRC main committee on the enumeration, performance and efficacy of self-monitoring capabilities within protective relays in order to determine the extent and degree of self-monitoring

Anderson, S.
Beresh, G.
Bilmoria, N.
Brown, J.
Farrar, T.
Fontana, D.
Frye, R.
Gagnon, J.P.
Gamble, R.
Garcia, R.
Jester, J.
Kanabar, M.
Kazimier, B.
Lu, Y.
Martin, A.
Mideance, R.
Miller, D.
Myrda, P.
Oliveira, A.
Seegers, T.

Thibodeau, E.
Tierney, D.
Uden, E.
Vasudevan, B.
Voloh, I.

I28: REVISION OF C37.110-GUIDE FOR APPLICATION OF CURRENT TRANSFORMERS USED BY PROTECTIVE RELAYING PURPOSES
J. Valenzuela, Chair
Kiewit Eng & Design
Lenexa, KS

M. Higgins, Vice Chair
S&C Electric Co
Chicago, IL

Assignment: Revision to Guide C37.110

Deronia, A.
Knapke, W.
Lane, J.
Long, J.
Niemira, J.
Shanmuga-Sundaram, V.
Swanson, M.
Wilson, J.
Zamani, A.

I30: REVISION OF C37-235-GUIDE FOR THE APPLICATION OF ROGOWSKI COILS USED FOR PROTECTIVE RELAYING PURPOSES
L. Kojovic, Chair
Eaton Corporation
Fransville, WI

R. Frye, Vice Chair
TVA
Chattanooga, TN

Assignment: Revision to Guide C37.235

Das, R.
McLaren, P.
Mugalian, B.
Schroeder, M.

I31: STANDARD FOR ENVIRONMENTAL & TESTING REQ. FOR DEVICES INSTALLED IN TRANSMISSION & DISTRIBUTION FACILITIES 1613/1613.1 (SUBS C2)
J. Tengdin, Chair
J.T. Tengdin & Assoc.
San Clemente, CA

B. Mugalian, Chair
S&C Electric Co.
Chicago, IL

J. Ramie, Vice-Chair
Dood, M.

Meisinger, M.
Nordell, D.
Preuss, C.
Ranieri, M.
Ward, S.

I32: SURVEY OF PROTECTIVE RELAYING TEST PRACTICES
A. Uribe, Chair
Power Grid Engineering
Lake Mary, FL

N. Torras, Vice Chair
Center Point Energy
Houston, TX

Assignment:

Beach, D.
Black, M.
Buchanan, D.
Casilla, N.
Cooper, S.
Knapke, W.
Lee, A.
Monterrubio, H.
Moores, B.
Newman, A.
Schock, E.
Shannon, B.
Siira, M.
Sykes, J.
Tempone, A.
Wade, D.
Weyer, G.

I33: REVIEW OF RELAY TESTING TERMS
Assignment: Produce formal definitions for terms commonly used to describe relay testing procedures and prepare a report for consideration by the I-Subcommittee and future inclusion in the IEEE Dictionary

J. Gosalia, Chair
Doble Engineering
Paradise Valley, AZ

A. Makki
SoftStuf
Philadelphia, PA

Mesiniger, M.
Nordell, D.
Preuss, C.
Ranieri, M.
Ward, S.

I34: DRAFT STANDARD FOR INPUT AND OUTPUT REQUIREMENTS AND TESTING METHODOLOGY FOR INTELLIGENT ELECTRONIC DEVICES (IEDs ) (SUBS C3)
Assignment: Draft Standard PC 37.1.1

C. Preuss, Chair
TBD, Vice Chair

I35: STANDARD FOR ELECTRICAL POWER SYSTEM DEVICE FUNCTION NUMBERS, ACRONYMS, AND CONTACT DESIGNATIONS (SUBS C5)
Assignment: Standard PC 37.2

M. Dood, Chair
Schwitzer Eng. Labs
New Berlin, WI

M. Laciro, Vice Chair
Bolado, O.
Hedding, R.
Preuss, C.

I36: REVIEW OF STANDARD FOR WITHSTAND CAPABILITY OF RELAY SYSTEMS TO RADIATED ELECTROMAGNETIC INTERFERENCE FROM TRANSCIEVERS
Assignment: Revision of C37.90.2

J. Pond, Chair
National Grid USA
Auburn, GA

J. Burmworth, Vice Chair

ITF37: REVIEW OF STANDARD FOR RELAYS AND RELAY SYSTEMS ASSOCIATED WITH ELECTRIC POWER APPARATUS
Assignment: Revision of C37.90

Oscar Bolado, Chair
TBD, Vice Chair

ITF38: REVIEW OF STANDARD FOR INPUTS TO PROTECTIVE RELAYS FROM ELECTRONIC VOLTAGE AND CURRENT TRANSFORMERS
Assignment: Revision of C37.92

Verzosa, J.
Step protection for AC generators.

S. Thakur, Chair
Exelon Nuclear
Kennett Square, PA 19348

M. Das, Vice Chair
GE Energy
Greenville, SC 29615

Ashrafi, H.
Barsch, J
Benmouyal, G.
Brahma, S.
Bukhala, Z.
Conrad, S.
Finney, D
Fischer, N.
Fredrickson, D.
Galanos, J.
Gers, J.
Gokaraju, R.
Henneberg, G.
Kanabar, M.
Khalek, M.
Kumar, P.
Liao, Y.
Mozina, C.
Mysore, P.
Nagpal, M.
Reichard, M.
Rizvi, I.
Ruckman, C.
Sankaran, M.
Shah, P.
Tatro, P.
Thompson, M.
Turner, S.
Tziouvaras, D.
Uchiyama, J.
Verzosa, J.
Yalla, M.

J7: AVOIDING UNWANTED RECLOSING ON ROTATING APPARATUS

Assignment: To review and provide comment on the protection and control vulnerability known as "Auraa".

Mike Reichard, Chair
GE Energy
Schenectady, NY 12305

Steve Conrad, Vice Chair
Public Service Co of NM
Albuquerque, NM 87107

Basler, M.
Benmouyal, G.
Bukhala, Z.
Finney, D.
Fredrickson, D.
Gardell, J.
Hammond, D.
Hataway, G.
Henneberg, G.
Hoch, N.
Holbach, J.
Johnson, G.
Mozina, C.
Mysore, P.
Padurar, C.
Pavlacich, S.
Thakur, S.
Waudby, P.
Wiedman, T.
Uchiyama, J.
Yang, Y.

J12: IMPROVED GENERATOR GROUND FAULT PROTECTION SCHEME

Assignment: To review new methods related to generator ground fault protection

D. Finney, Chair
Schweitzer Engineering Labs
North Sydney, Canada

M. Das, Vice Chair
Greenville, SC

Ashrafi, H.
Bukhala, Z.
Cooper, M.
Fischer, N.
Fredrickson, D.
Hamilton, R.
Kanabar, M.
Kao, M.
Kobet, G.
Kumar, P.
Mozina, C.
Patterson, R.
Pavlacich, S.
Pettigrew, R.
Polanco, L.
Reichard, M.
Sankaran, M.
Sawatzky, T.
Thakur, S.
Uchiyama, J.
Verzosa, J.

J14: PLANT ISSUES ASSOCIATED WITH BLACK STARTING OF GENERATORS

Assignment: Investigate and report to the J Subcommittee on plant protection issues associated with black start.

C. Ruckman, Chair
Burns & McDonnell
Kansas City, Missouri 64114

Z. Bukhala, Vice Chair
Schenectady, NY
J15: INVESTIGATION OF THE CRITERIA FOR THE TRANSFER OF MOTOR BUSSES

Assignment: Review, compare and contrast NEMA MG-1 with ANSI C50.41 regarding transfer criteria. Investigate existing open-transition motor bus transfer (MBT) actual data from multiple events at the medium voltage level. Examine for current versus Volts/Hz at transfer periods to see if there is a correlation. Examine v/f Hz of composite bus and individual motors. Examine published reports and papers on motor bus transfer criteria to reconcile the conclusions with the field-measured results.

W. Hartmann, Chair
Beckwith Electric Co. Inc.
Largo, FL 33773

J. Valenzuela, Vice Chair
Kiewit Eng. & Design Co.
Lenexa, KS

Ashrafi, H.
Basler, M.
Beckwith, T.
Benmouyal, G.
Farr, T.
Finney, D.
Kanabar, M.
Monterrubio, H.
Patterson, R.
Pavavicham, S.
Petigrew, R.
Reichard, M.
Ruckman, C.
Shah, P.
Thakur, S.
Yalla, M.

K: SUBSTATION PROTECTION SUBCOMMITTEE

Scope: Evaluate and report on methods used in protective relaying of substations and the consumer or independent power producer, associated equipment and performance of these protective systems. Develop and maintain relaying standards which relate to this equipment and the utility-consumer interface.

D. Lukach, Chair
Ameren
Decatur, IL 62523

B. Pickett, Vice-Chair

ECF Consultants
Tequesta, FL
Barsch, J.
Best, M
Brunello G.
Carroll, P.
Conrad, S.P.
Crellin, R.
Das, R.
Davie, B.
Elkin P.
English, W.
Fontana D.
Hamilton, R.
Hedding, R.
Henneberg, G.
Henville, C.
Madani, V.
Miller, D.
Moskos, G.
Mulirwaman, A
Mysore, P.
Nagpal M.
Sevov, L.
Sufana, C.
Thompson, M.
Qui, O.
Voloh, I.
Whittaker, R

K1: PC37.245. GUIDE FOR THE APPLICATION OF PROTECTIVE RELAYING FOR PHASE SHIFTING TRANSFORMERS

Assignment: To write a guide for the application of Protective Relaying for Phase Shifting Transformers (PSTs). The protection methods for different types of PST and operating conditions of PSTs will be reviewed.

R. Benjamin Kazimier,
Chair
Basler Electric
Knoxville, TN 37934

M. Siira, Vice Chair
ComRent Load Bank Sol.
Cedarburg, WI

Bradley, C.
Carroll, P.
Das, R.
Fowler, R.
Friend, F.
Guerrero, M.
Hartmann, W.
Houser, K.
Kifle, A.
Lascu, R.
McCannon, W.
Sufana, C
Yalla, M
Zamani, A.

K10: SCC21 DISTRIBUTED RESOURCES STANDARD COORDINATION

Assignment: To interface with SCC21/P1547 in order to reduce unnecessary delays by getting PSRC input into the process without having to wait for after-the-fact coordination.

Sambasivan, S.
Soudi, F.
Subramanian, S.
Thompson, M.
Tziovaras, D
Seegers, T.
Wiedman, T.

K11: OPEN PHASE DETECTION FOR NUCLEAR GENERATING STATIONS

Assignment: Write a report to the K Subcommittee entitled Methods for Analyzing and Detecting an Open Phase Condition of a Power Circuit providing off-site power to a Nuclear Power Generating Plant.

L. Sevov, Chair
General Electric
Markham, Canada

B. Davies, Vice Chair
TRC
Augusta, ME

Bapary, A.
Conrad, S.
Crellin, R.
Elkin, P.
Gajic, Z.
Henville, C.
Hilaly, M.
Ibrahim, M.
Khan, U.
Miller, D.
Mooney, J.
Pajuelo, E.

Franklin, G.*
Gardell, J.*
Hamilton, R.
Horton, R.
Jalali, J.
Johnson, W.
Johnson, G.*
Kao, M.
Kobet, G.
Kojovic, L.
Kravac, J.
Kumar, P.
Lu, Y.
Martin, C.*
Martin, A.
Mezzo, A.
Nayak, O.
Oliver, J.
Palaneappan, R.
Patterson, R.
Petigrew, R.
Pitts, G.*
Schroeder, M.
Sleva, T.
Stewart, D.*
Subramanian, R.
Taylor, R.
Thakur, S.
Uchiyama, J.
Vo, C.
Voloh, I.
Warren, T.

K12: P1032 GUIDE FOR PROTECTING STATIC VAR COMPENSATORS, JOINT COMMITTEE WORKING GROUP I9

Assignment: To work jointly with Substations WG I9 to write a guide for protecting transmission static var compensators. PSRC WG K12 will provide guidance and review on topics that are already covered in other IEEE guides to prevent overlap and identify areas where interpretation of existing guides is necessary to meet the specific application challenges unique to transmissions static var compensators.

S. Samineni, Chair
Schweitzer Eng. Labs
King of Prussia, PA 19406

M. Best, Vice-Chair
UC Synergetic
Fort Mill, SC

Antonova, G.
Brunello, G.
Conrad, S.
Elkin, P.
Lee, A.
Manna, T.
Maragali, D.
Miller, D.
Nestor, C.
Pajuelo, E.
K13: PC37.116 GUIDE FOR PROTECTIVE RELAY APPLICATIONS TO TRANSFORMATION LINE SERIES CAPACITOR BANKS
Assignment: Revise IEEE C37.116 -2007
Sevov, L.
Schroeder, M.
Polanco, L.
Pickett, B.
Pavavicharn, S.
Patti, C.
Mezco, A.
Manna, T.
Mackie, B.
Lukach, D.
Long, J.
Lee, A.
Hamilton, R.
Elkin, P.
Deronja, A.
Davies, B.
Carroll, P.
Boysen, B.

K14: GEOMAGNETIC DISTURBANCES (GMD) IMPACT ON PROTECTION SYSTEMS
Assignment: To submit a WG report to the PSRC K Substation Subcommittee evaluating the performance of protection systems during Geomagnetic Disturbances.
Q. Qiu, Chair
American Electric Power
New Albany, Ohio 43054

L. Polanco, Vice Chair
Schenectady, NY

Antonova, G
Marken, P.
McVey, M.
Mulawarman, A
Polanco, L.
Samineni, S.
Zadeh, M.

K16: PC37.91, REVISION OF C37.91 GUIDE FOR PROTECTING POWER TRANSFORMERS
Assignment: To revise and update C37.91, IEEE Guide for Protecting Power Transformers* to correct errors and address additional protection related topics.
W. English, Chair
Consumers Energy
Jackson, MI 49201

S. Conrad, Vice Chair
Public Svc. Co. of NM
Albuquerque, NM

Bapary, A.
Boysen, B.
Carroll, P.
Crellin, R.
Davies, B.
Derona, A.
Elkin, P.
Hamilton, R.
Kao, M.
Lee, A.
Long, J.
Lukach, D.
Mackie, B.
Manna, T.
Mezco, A.
Midence, R.
Patti, C.
Pavavicharn, S.
Pickett, B.
Polanco, L.
Schroeder, M.
Sevov, L.
Thompson, M.
Torres, N.
Uchiyama, J.
Van den Berg, J.
Verzosa, J.
Walker, C.
Ware, D.
Weyner, G.
White, C

K17: GEOMAGNETIC DISTURBANCES (GMD) IMPACT ON PROTECTION SYSTEMS
Assignment: To submit a WG report to the PSRC K Substation Subcommittee evaluating the performance of protection systems during Geomagnetic Disturbances.
Q. Qiu, Chair
American Electric Power
New Albany, Ohio 43054

L. Polanco, Vice Chair
Schenectady, NY

Adamiak, M.
Bapary, Abu
Campbell, J.
Davies, B.
Fischer, N.
Fontana, D.
Hedding, R.
Henville, C.
Hilaly, M.
Le, V.
Liao, Y.
Makki, A.
Manna, T.
Mulawarman, A.
Paravicharn, S.
Patel, M.
Sambsasivan, S.
Schroeder, L.
Sun, R.
Thompson, M.
Torres, N.

K18: IEEE GUIDE FOR THE PROTECTION OF NETWORK TRANSFORMER
A. Mulawarman, Chair
Xcel Energy,
Minneapolis, MN

R. Whittaker, Vice Chair
Portland, OR

Bertolini, E.
Donahoe, K.
Frye, R.
Kumar, P.
Lascu, R.
Lukach, D.
Mackie, B.
Moskos, G.
Pavavicharn, S.
Sevov, L.
Sufana, C.
Thompson, M.
Torres, N.
Van de Ligt, J.

K19: COORDINATION WITH IEC 60255-187 - FUNCTIONAL SPEC FOR TRANSFORMERS, GENERATORS AND MOTOR DIFFERENTIAL
Assignment: To provide advisory input to the IEC working groups.
Gustavo Brunello, Chair
General Electric
Markham, ON Canada

Abu Bapary, Vice Chair
AESO
Tulsa, OK

Lee, A.
Sevov, L.
Thompson, M.
Udren, E.
Vinod, Ny.
Voloh, I.
Yalla, M.

KTF21: C37.112 STANDARD INVERSE-TIME CHARACTERISTIC EQUATIONS FOR OVERCURRENT RELAYS
Assignment: To investigate options for the future of IEEE Standard C37.112 which is due to expire in 2018 and make a recommendation to the K subcommittee.
R. Crellin, Chair
HDR
Billings, MT

M. Thompson, Chair
Schweitzer Eng. Labs
O’Fallon, IL

Beach, D.
Bapary, A.
Boysen, B.
Burnsworth, J.
Gamble, R.
Hamilton, R.
Ladner, H.
Lukach, D.
Sufana, C.
Udren, E.
Versosa, J.
Yalla, M.

K23: SUMMARY PAPER: REVISION OF C37.119 – IEEE GUIDE FOR BREAKER FAILURE PROTECTION OF POWER CIRCUIT BREAKERS
R. Whittaker, Chair
Bonneville Power Admin.
P.O. Box 3621