

# **NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION**

---

3353 Peachtree Road, N.E., Suite 600, North Tower, Atlanta, Georgia 30326

## **North American Electric Reliability Corporation Roster March 2016**

Board of Trustees .....	1
Observers.....	3
Board of Trustees - Compliance Committee.....	4
Board of Trustees - Corporate Governance and Human Resources Committee.....	5
Board of Trustees - Finance and Audit Committee.....	6
Board of Trustees - Nominating Committee .....	7
Board of Trustees - Standards Oversight and Technology Committee.....	9
Compliance and Certification Committee.....	10
Critical Infrastructure Protection Committee.....	14
Critical Infrastructure Protection Committee Executive Committee .....	17
Electricity Sub-Sector Coordinating Council.....	18
Event Analysis Subcommittee .....	19
Joint Steering Group.....	21
Legal Advisory Committee .....	22
Member Representatives Committee .....	25
Operating Committee .....	29
Operating Committee Executive Committee .....	33
Operating Reliability Subcommittee.....	34
Performance Analysis Subcommittee .....	36
Personnel Certification Governance Committee.....	40
Planning Committee.....	41
Planning Committee Executive Committee .....	44
Regional Entity Executives .....	46
Reliability Assessment Subcommittee .....	47
Reliability Issues Steering Committee .....	51
Resources Subcommittee .....	54
Standards Committee .....	57
Synchronized Measurement Subcommittee .....	61
System Analysis and Modeling Subcommittee.....	69
System Protection and Control Subcommittee .....	75
NERC Staff .....	79

Please e-mail changes to [ump@nerc.net](mailto:ump@nerc.net)

Phone 404-446-2560 ■ Fax 404-467-0474 ■ [www.nerc.com](http://www.nerc.com)

## Board of Trustees

<b>Chair</b>	Frederick Gorbet	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
<b>Vice Chair, Chair-Elect</b>	Roy Thilly	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Paul F. Barber	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Janice B. Case	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Bob Clarke	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Ken DeFontes	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560
	David Goulding	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	George Hawkins	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Kenneth G. Peterson	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx

Jan Schori

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx

Gerry W Cauley  
President and Chief Executive  
Officer

North American Electric Reliability  
Corporation  
3353 Peachtree Road, N.E.  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(704) 840-7542 Fx  
Gerry.Cauley@  
nerc.net

## Observers

<b>CEA</b>	Jim Burpee President and CEO	Canadian Electricity Association 350 Sparks Street Suite 1100 Ottawa, Ontario K1R 7S8	(613) 230-4762 burpee@ electricity.ca
	Jack Cashin Directory of Regulatory Affairs	Electric Power Supply Association 1401 New York Avenue, NW Washington, D.C. 20005	202-349-0155 202-628-8260 Fx jcashin@epsa.org
<b>EEI</b>	James P Fama Executive Director, Energy Delivery	Edison Electric Institute 701 Pennsylvania Avenue, NW Suite 400 Washington, D.C. 20004	202-508-5725 (202) 508-5445 Fx jfama@eei.org
<b>EPRI</b>	Arshad Mansoor Senior Vice President, Research & Development	Electric Power Research Institute 942 Corridor Park Boulevard Knoxville, Tennessee 37932	(865) 218-8004 (865) 218-8001 Fx amansoor@ epri.com
<b>NAESB</b>	Rae McQuade President	North American Energy Standards Board 1301 Fannin Suite 2350 Houston, Texas 77002	(713) 356-0060 (713) 356-0067 Fx rmcquade@ naesb.org
<b>NRECA</b>	David L. Mohre Executive Director Energy & Environmental Division	National Rural Electric Cooperative Association 4301 Wilson Boulevard Mailcode EP11-257 Arlington, Virginia 22203	(703) 907-5812 (703) 907-5517 Fx dave.mohre@ nreca.org
<b>APPA</b>	Allen Mosher Vice President, Policy Analysis	American Public Power Association 2451 Crystal Drive Suite 1000 Arlington, Virginia 22202	202-467-2944 301-767-6652 Fx amosher@ publicpower.org

## Board of Trustees - Compliance Committee

<b>Chair</b>	Janice B. Case	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
<b>ex officio</b>	Frederick Gorbet	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	David Goulding	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Jan Schori	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Roy Thilly	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2595 Fx

## Board of Trustees - Corporate Governance and Human Resources Committee

<b>Chair</b>	Bob Clarke	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Ken DeFontes	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560
<b>ex officio</b>	Frederick Gorbet	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Kenneth G. Peterson	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Roy Thilly	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx

## Board of Trustees - Finance and Audit Committee

<b>Chair</b>	Jan Schori	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Janice B. Case	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Bob Clarke	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Ken DeFontes	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560
<b>ex officio</b>	Frederick Gorbet	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Kenneth G. Peterson	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx

## Board of Trustees - Nominating Committee

<b>Chair</b>	Kenneth G. Peterson	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Janice B. Case	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Bob Clarke	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Michelle R DAntuono	Ingleside Cogeneration LP ,	713 215 7064 713 215 7571 Fx michelle_dantuono@oxy.com
	Ken DeFontes	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560
	David Goulding	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	George Hawkins	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Nabil Hitti Director, US Business Development	National Grid 40 Sylvan Road Waltham, Massachusetts 02451	(781) 907-2657 Nabil.Hitti@nationalgrid.com
	Anthony H. Montoya Chief Operating Officer	Western Area Power Administration 12155 W. Alameda Pkwy Lakewood, Colorado 80228	(720) 962-7071 (720) 962-7246 Fx tmontoya@wapa.gov
	V. Nelson Peeler Vice President, Transmission System Operations	Duke Energy 526 S. Church Street Mail Code: EC3ZJ Charlotte, North Carolina 28202	704-382-3851 704-382-8375 Fx nelson.peeler@duke-energy.com



Jan Schori

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx

John R Twitty  
Executive Director

Transmission Access Policy Study Group  
PO Box 14364  
Springfield, Missouri 65814

4178388576  
835consulting@  
gmail.com

## Board of Trustees - Standards Oversight and Technology Committee

<b>Chair</b>	Kenneth G. Peterson	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Paul F. Barber	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Ken DeFontes	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560
<b>ex officio</b>	Frederick Gorbet	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	David Goulding	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	George Hawkins	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx

## Compliance and Certification Committee

<b>Chair</b>	Patricia E Metro Manager, Transmission and Reliability Standards	National Rural Electric Cooperative Association 4301 Wilson Blvd. Mail Code EP11-253 Arlington, Virginia 22203	(703) 907-5817 (571) 334-8890 Fx patti.metro@ nreca.coop
<b>Vice Chair</b>	Jennifer Flandermeyer Senior Manager Compliance Programs	Kansas City Power & Light Co. 1200 Main Street Kansas City, Missouri 64105	(816) 701-7851 (816) 654-1189 Fx Jennifer.Flandermeyer@ kcpl.com
<b>RE-FRCC</b>	Ted E Hobson Chief Compliance Officer	JEA 21 W. Church St, Jacksonville, Florida 32202-3139	(904) 665-7126 (904) 665-4238 Fx hobste@jea.com
<b>Electricity Marketer</b>	Richard K Comeaux Director - Regulatory Compliance	NRG Energy, Inc. 112 Telly Street New Roads, Louisiana 70760	(225) 663-0043 (225) 618-3334 Fx RichardK.Comeaux@ nrg.com
<b>ISO/RTO</b>	Gregory Campoli Supervisor, Reliability Compliance and Assessment	New York Independent System Operator 10 Krey Blvd Rensselaer, New York 12144	(518) 356-6159 (518) 356-6119 Fx gcampoli@ nyiso.com
<b>Small End-Use Electricity Generator</b>	Jim R Stanton Principal Advisor	Quanta Technology 1707 Brill Dr. Friendswood, Texas 77546	(713) 444-9998 (610) 757-1685 Fx james.stanton@ sosintl.com
<b>Canada Federal</b>	To Be Named		
<b>Canada Provincial</b>	To Be Named		
<b>RE-MRO</b>	Terry Bilke	720 City Center Drive Carmel, Indiana 46082-4202	(317) 249-5463 (317) 249-5358 Fx TBilke@ misoenergy.org
<b>Eastern Canada</b>	Matthew F Goldberg Director, Reliability & Operations Compliance	ISO New England, Inc. One Sullivan Rod Holyoke, Massachusetts 01040-2841	(413) 535-4029 (413) 535-4050 Fx mgoldberg@ iso-ne.com
<b>Eastern Canada</b>	John Louis Hairston Chief Compliance Officer	Bonneville Power Administration 905 NE 11th Ave. DG-7 Portland, Oregon 97232	(503) 230-5262 (503) 230-3270 Fx jlhairston@ bpa.gov

<b>Eastern Canada</b>	Barbara Kedrowski Project Manager Federal and Regulatory	We Energies 333 W. Everett St A535 Milwaukee, Wisconsin 53203	(414) 221-3572 414-221-4211 Fx barbara.kedrowski@ we-energies.com
<b>Eastern Canada</b>	Leland McMillan Manager, NERC Compliance	Talen Montana, LLC 303 N. Broadway, Suite 400 Billings, Montana 59101	(406) 237-6917 Leland.McMillan@ TalenEnergy.com
<b>Eastern Canada</b>	Patricia Robertson, P. Eng	BC Hydro and Power Authority ,	604-455-4233 (604) 455-1912 Fx patricia.robertson@ bchydro.com
<b>U.S. State</b>	James E. Spearman Executive Assistant & Senior Technical Advisor	Public Service Commission of South Carolina 101 Executive Center Drive Columbia, South Carolina 29210	(803) 896-5142 (803) 896-5231 Fx james.spearman@ psc.sc.gov
<b>State/Municipal</b>	Shawn T Abrams Vice President of Planning and Power Supply	South Carolina Public Service Authority Santee Cooper PO Box 2946101 Moncks Corner, South Carolina 29461	(843) 761-8000 (843) 761-7038 Fx tom.abrams@ santeecooper.com
	Christina Bigelow Senior Attorney	Pinnacle West Capital Corporation 400 North 5th Street Phoenix, Arizona 85004	602-250-2404 Christina.bigelow@ pinnaclewest.com
<b>Small End-Use Electricity Customer</b>	Kevin Conway EVP Operations	INTELLIBIND 14520 Wunderlich Drive Houston, Texas 77069	(509) 937-2211 (509) 750-5441 Fx Kevinc@ intellibind.com
<b>RE-RFC</b>	Michael E Deloach Director, NERC Regulatory Compliance	AEP 1 Riverside Plaza Columbus, Ohio 43215	614-716-2370 medeloach@ aep.com
<b>Federal/Provincial</b>	Caroline Dupuis Manager, System Control Policies and Planning	Hydro-Quebec TransEnergie P.O. Box 10000, Complexe Desjardins, tour Est, 19è Montréal, H5B 1H7	(514) 897-4100 ext. 5903 dupuis.caroline@ hydro.qc.ca
<b>Electricity Marketer</b>	Ben Engelby Manager of Reliability Compliance	ACES 4140 W. 99th Street Carmel, Indiana 46032	(317) 344-7138 bengelby@ acespower.com
<b>Large End-Use Customer</b>	Marion Lucas President APMLLC, Chief Compliance Officer APGI	Alcoa, Inc. 300 North Hall Road MS-#T1521 Alcoa, Tennessee 37701	(865) 977-3570 (865) 977-2346 Fx marion.lucas@ alcoa.com
<b>RE-WECC</b>	Lisa Milanes Director, Corporate Compliance	California Independent System Operator Corporation 250 Outcropping Way Folsom, California 95630	916-351-2172 lmilanes@ caiso.com
<b>Merchant Electricity Generator</b>	Silvia P Mitchell Director, NERC Reliability Standards & Compliance	NextEra Energy 700 Universe Boulevard Juno Beach, Florida 33408	(561) 694-4414 silvia.parada.mitchell @ fpl.com

<b>Investor Owned Utility</b>	Helen Nalley Compliance Director	Southern Company 600 N. 18th Street Birmingham, Alabama 35203	(205) 257-2055 HRNALLEY@ southernco.com
	Vicki M O'Leary	,	781-907-2421 781-907-5707 Fx vicki.oleary@ nationalgrid.com
<b>U.S. Federal</b>	Darrell G. Piatt OER/DRS Electrical Engineer	Federal Energy Regulatory Commission 76 Ridgeview Lane Birmingham, Alabama 35242	(205) 914-1845 darrell.piatt@ ferc.gov
	Manmohan K Sachdeva Director, Power Delivery Engineering and Planning	Buckeye Power, Inc. 6677 Busch Blvd P.O.Box 26036 Columbus, Ohio 43226-0036	614-430-7825 614-846-7108 Fx msachdeva@ buckeyepower.com
<b>Cooperative</b>	Shane Sanders Director of System Operations	Southwest Transmission Cooperative, Inc. P.O. Box 2195 Benson, Arizona 85602	(520) 586-5239 ssanders@ swtransco.coop
<b>Cooperative</b>	W. Clay Smith Executive Vice President - Chief Legal and Compliance Officer	Georgia Systems Operations Corporation 2100 East Exchange Place P.O. Box 2087 Tucker, Georgia 30085/2087	(770) 270-7660 (770) 270-7938 Fx clay.smith@ gasoc.com
<b>RE-NPCC</b>	William Temple Program Manager, Reliability Compliance	Northeast Utilities 107 Seldon Street Berlin, Connecticut 06037	(860)-665-3908 templwj@nu.com
<b>Large End-Use Customer</b>	Rick Terrill Director Regulatory and Market Support	Luminant Generation Company LLC 1601 Bryan Street Suite 24-040D Dallas, Texas 75201	(214) 875-8750 rick.terrill@ luminant.com
	Scott Tomashefsky Regulatory Affairs Manager	Northern California Power Agency 651 Commerce Drive Roseville, California 95678	(916) 781-4291 (916) 782-2191 Fx scott.tomashefsky@ ncpa.com
<b>RE-SERC</b>	Lee N. Xanthakos Vice President, Electric Transmission	South Carolina Electric & Gas Co. Mail Code 204 Columbia, South Carolina 29218	(803) 217-6058 (803) 933-8041 Fx pxanthakos@ scana.com
	Marisa Hecht Senior Advisor, Compliance Assurance	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600 - North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx marisa.hecht@ nerc.net
<b>NERC Staff</b>	Steven Noess Director of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600 Atlanta, Georgia 30326	404-446-9691 (404) 446-2595 Fx steven.noess@ nerc.net

Teresina Stasko  
Senior Counsel & Manager of  
Enforcement Actions

North American Electric Reliability  
Corporation  
1325 G Street, NW  
Suite 600  
Washington, D.C. 20005

(202) 618-5358  
(202) 644-8099 Fx  
teresina.stasko@  
nerc.net

## Critical Infrastructure Protection Committee

<b>Chairman MRO (Cyber)</b>	Marc A. Child, CISSP Security Administrator	Great River Energy 12300 Elm Creek Blvd. Maple Grove, Minnesota 55369-4718	(763) 445-5563 (763) 445-6363 Fx mchild@ grenergy.com
<b>Co-Vice Chair NRECA</b>	David S Revill Manager, Cyber Security Operations	Georgia Transmission Corporation 2100 East Exchange Place Tucker, Georgia 30084	(770) 270-7815 david.revill@ gatrans.com
<b>Co-Vice Chair APPA</b>	Nathan Mitchell Director of Electric Reliability Standards and Compliance	American Public Power Association 2451 Crystal Drive Suite 1000 Arlington, Virginia 22202	(202) 467-2925 nmitchell@ publicpower.org
<b>Secretary</b>	Samuel D Chanoski Director of Situation Awareness and Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 904-2480 Fx sam.chanoski@ nerc.net
<b>FRCC (Physical)</b>	Carter Manucy Cyber Security Program Manager	Florida Municipal Power Agency 8553 Commodity Circle Orlando, Florida 32819-9002	(407)-355-7767 carter.manucy@ fmpa.com
<b>FRCC (Cyber)</b>	Paul McClay Manager of Information Security	Tampa Electric Co. P.O. Box 111 Tampa, Florida 33601	(813) 225-5287 (813) 225-5302 Fx pfmcclay@ tecoenergy.com
<b>FRCC (Operations)</b>	Joe Garmon CIP Program Advisor	Seminole Electric Cooperative, Inc. 16313 North Dale Mabry Highway Tampa, Florida 33618	(813) 739-1370 jgarmon@ seminole- electric.com
<b>MRO (Physical)</b>	Paul Crist Manager, Substations	Lincoln Electric System 2620 Fairfield Lincoln, Nebraska 68521	(402) 467-7615 pcrist@les.com
<b>MRO (Operations)</b>	Vacant		
<b>NPCC (Physical)</b>	David Cadregari	Iberdrola USA 89 East Ave. Rochester, New York 14649	(585) 724-8072 david.cadregari@ iberdrolausa.com
<b>NPCC (Cyber)</b>	Gregory Goodrich, CISSP Principal, Security and Compliance Coordination	New York Independent System Operator 10 Krey Blvd. Rensselaer, New York 12144	(518) 356-7591 (518) 356-8899 Fx ggoodrich@ nyiso.com
<b>NPCC (Operations)</b>	John Galloway	ISO New England, Inc.	(413) 540-4573 jgalloway@ iso-ne.com

<b>RF (Physical)</b>	Jeffrey Fuller Director, Cyber and Physical Security	AES Corporation 1065 Woodman Drive Dayton, Ohio 45432	(937) 331-4057 jeffrey.fuller@ aes.com
<b>RF (Cyber)</b>	Larry Bugh Chief Security Officer	ReliabilityFirst 3 Summit Park Drive Suite 600 Cleveland, Ohio 44131	(216) 503-0685 (330) 456-3648 Fx larry.bugh@ rfirst.org
<b>RF (Operations)</b>	Vacant		
<b>SERC (Physical)</b>	Bruce Martin Director, Security Risk and Compliance	Duke Energy	bruce.martin@ duke-energy.com
<b>SERC (Cyber)</b>	Cynthia Hill-Watson Program Manager – Security Liaison	Tennessee Valley Authority 1101 Market St. Chattanooga, Tennessee 37402	(423) 697-4077 chwatson@tva.gov
<b>SERC (Operations)</b>	Charles F. Abell, P.E. Supervising Engineer	Ameren Corp. 1901 Chouteau Ave. MC-630 St. Louis, Missouri 63103	(314) 554-3817 (314) 206-0046 Fx cfabell@ ameren.com
<b>SPP (Physical)</b>	John Breckenridge Senior Manager - Corporate Security	Kansas City Power & Light Co. 20 W. 9th Street Kansas City, Missouri 64105	(816) 467-3203 (816) 467-9203 Fx john.breckenridge@ kcpl.com
<b>SPP (Cyber)</b>	Eric Ervin Manager, NERC CIP	Westar Energy 818 S Kansas Ave Topeka, Kansas 66612	(785) 575-1626 Eric.ervin@ westarenergy.com
<b>SPP (Operations)</b>	Allen Klassen Director Transmission System Operations	Westar Energy 818 S Kansas Ave Topeka, Kansas 66612	(785) 575-6073 (785) 575-1715 Fx allen.klassen@ westarenergy.com
<b>TRE (Physical)</b>	Darrell Klimitchek Manager of Technical Services	South Texas Electric Cooperative	(361) 485-6275 Darrell@stec.org
<b>TRE (Cyber)</b>	Vacant		
<b>TRE (Operations)</b>	David Grubbs Director of Regulatory Affairs and Compliance	City of Garland 217 N. 5th St. Garland, Texas 75040	(214) 802-9045 (972) 205-2822 Fx dgrubbs@ garlandpower- light.org
<b>WECC (Physical)</b>	Allan Wick Enterprise Security Manager - CSO	Tri-State Generation & Transmission Association, Inc.	(303) 254-3341 awick@ tristategt.org
<b>WECC (Cyber)</b>	Michael Mertz FERC Regulatory Compliance	PNM Resources Alvarado Square Albuquerque , New Mexico 87158	(505) 241-0676 michael.mertz@ pnmresources.com



<b>WECC (Operations)</b>	Lisa Carrington Regulatory Compliance Advisor	Arizona Public Service	
<b>APPA</b>	Scott Smith, CISSP Division Manager - Communications	Bryan Texas Utilities 205 E 28 <sup>th</sup> St. Bryan, Texas 77803	(979) 821-5761 (979) 821-5795 Fx ssmith@ btutilities.com
<b>CEA</b>	Ross Johnson Senior Manager, Security and Contingency Planning	Capital Power Corporation 10065 Jasper Avenue 9th Floor Northeast Corner Edmonton, Alberta T5J 3B1	(780) 392-5482 rjohnson@ capitalpower.com
<b>CEA</b>	Francis Bradley Chief Operating Officer	Canadian Electricity Association 275 Slater St., Suite 1500 Ottawa, Ontario K1P 5H9	(613) 230-5027 bradley@ electricity.ca
<b>CEA</b>	David Dunn	Independent Electricity System Operator Station A, Box 4474 Toronto, Ontario M5W 4E5	905.855.6286 david.dunn@ ieso.ca
<b>NRECA</b>	Robert Richhart VP Management Services	Hoosier Energy Rural Electric Cooperative, Inc. 7398 North State Road 37 P.O. Box 908 Bloomington, Indiana 47404	(812) 876-0236 (812) 876-0313 Fx richhart@ hepn.com
<b>EI</b>	Melanie Seader	Edison Electric Institute 701 Pennsylvania Avenue Washington, D.C. 20004	(202) 508-5063 mseader@eei.org

## Critical Infrastructure Protection Committee Executive Committee

<b>Chairman</b>	Marc A. Child, CISSP Security Administrator	Great River Energy 12300 Elm Creek Blvd. Maple Grove, Minnesota 55369-4718	(763) 445-5563 (763) 445-6363 Fx mchild@ grenergy.com
<b>Vice Chairman NRECA</b>	David S Revill Manager, Cyber Security Operations	Georgia Transmission Corporation 2100 East Exchange Place Tucker, Georgia 30084	(770) 270-7815 david.revill@ gatrans.com
<b>Vice Chairman APPA</b>	Nathan Mitchell Director of Electric Reliability Standards and Compliance	American Public Power Association 2451 Crystal Drive Suite 1000 Arlington, Virginia 22202	(202) 467-2925 nmitchell@ publicpower.org
<b>Immediate Past Chairman</b>	Charles F. Abell, P.E. Supervising Engineer	Ameren Corp. 1901 Chouteau Ave. MC-630 St. Louis, Missouri 63103	(314) 554-3817 (314) 206-0046 Fx cfabell@ ameren.com
<b>Secretary</b>	Samuel D Chanoski Director of Situation Awareness and Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 904-2480 Fx sam.chanoski@ nerc.net
<b>Cyber Security SME</b>	Joe Garmon CIP Program Advisor	Seminole Electric Cooperative, Inc. 16313 North Dale Mabry Highway Tampa, Florida 33618	(813) 739-1370 jgarmon@ seminole- electric.com
<b>Operations SME</b>	John Galloway	ISO New England, Inc.	(413) 540-4573 jgalloway@ iso-ne.com
<b>Physical Security SME</b>	David Grubbs Director of Regulatory Affairs and Compliance	City of Garland 217 N. 5th St. Garland, Texas 75040	(214) 802-9045 dgrubbs@ garlandpower- light.org
<b>Policy SME CEA</b>	Ross Johnson Senior Manager, Security and Contingency Planning	Capital Power Corporation 10065 Jasper Avenue 9th Floor Northeast Corner Edmonton, Alberta T5J 3B1	(780) 392-5482 rjohnson@ capitalpower.com
<b>EEI</b>	Melanie Seader	Edison Electric Institute 701 Pennsylvania Avenue Washington, D.C. 20004	(202) 508-5063 mseader@eei.org
<b>EPSA</b>	Jack Cashin Directory of Regulatory Affairs	Electric Power Supply Association 1401 New York Avenue, NW Washington, D.C. 20005	(202) 349-0155 (202) 628-8260 Fx jcashin@epsa.org

## Electricity Sub-Sector Coordinating Council

<b>Chairman</b>	Gerry W Cauley President and Chief Executive Officer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (704) 840-7542 Fx Gerry.Cauley@ nerc.net
	Charles F. Abell, P.E. Supervising Engineer	Ameren Corp. 1901 Chouteau Ave. MC-630 St. Louis, Missouri 63103	(314) 554-3817 (314) 206-0046 Fx cfabell@ ameren.com
	Paul F. Barber	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	W. Terry Boston President and CEO	PJM Interconnection, L.L.C. Valley Forge Corporate Center 955 Jefferson Avenue Norristown, Pennsylvania 19403-2497	(610) 666-8262 (610) 666-8803 Fx boston@pjm.com
<b>NERC Consultant</b>	Stuart J. Brindley	SJBrindley Consulting Station A Box 4474 Toronto, Ontario M5W 4E5	(905) 464-4211 stuart.brindley@ gmail.com
	George Hawkins	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx
	Duane Highley President and CEO	Arkansas Electric Cooperative Corporation 1 Cooperative Way Little Rock, Arkansas 72219	501-570-2261 (573) 643-2001 Fx duane.highley@ aecc.com
	Carmine Marcello President and CEO	Hydro One Networks, Inc. P.O. Box 5700 Markham, Ontario L3R 1C8	(416) 345-5300 (416) 319-2279 Fx carmine.marcello@ hydroone.com
	John C. Procario President & CEO	American Transmission Company, LLC P.O. Box 47 Waukesha, Wisconsin 53187	(262) 506-6801 jprocario@ atllc.com
	Kevin G. Wailes Administrator & CEO	Lincoln Electric System 1040 O Street Lincoln, Nebraska 68501	(402) 473-3392 kwailes@les.com

## Event Analysis Subcommittee

<b>Chair</b>	Hassan Hamdar Transmission Planning Engineer	Florida Reliability Coordinating Council 3000 Bayport Dr STE 600 Tampa, Florida 33607	(813) 207-7989 (813) 289-5646 Fx hhamdar@frc.com
<b>Vice Chair</b>	Richard C Hydzik Transmission Operations Engineer	Avista Corp. 1411 East Mission MSC-03 PO Box 3727 Spokane, Washington 99220-3727	509 495 4005 rich.hydzik@ avistacorp.com
	Barry Bruun	Northeast Utilities P.O. Box 270 Hartford, Connecticut 06141	860-665-4951 barry.bruun@ nu.com
	Philip D'Antonio System Operator	PJM Interconnection, L.L.C. 955 Jefferson Ave. Norristown, Pennsylvania 19403-2497	(610) 666-8808 Philip.DAntonio@ pjm.com
	Brenda Hampton Senior Project Manager, Regulatory Affairs	Luminant Energy 1005 Congress Ave, Suite 750 Austin, Texas 78701	5123496416 (512)-349-6415 Fx brenda.hampton@ energyfutureholdings. com
	Mark Henry	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4988 (512) 233-2233 Fx mark.henry@ texasre.org
	Devan Hoke	SERC Reliability Corporation 3701 Arco Corporate Drive Suite 300 Charlotte, North Carolina 28273	704-940-8227 dhoke@serc1.org
	Paul B Johnson, P.E. Managing Director - Transmission Operations	American Electric Power 8400 Smith's Mill Road New Albany, Ohio 43054	(614) 413-2652 Fx pbjohnson@ aep.com
	Brett A. Koelsch Associate System Operator	Duke Energy 3401 Hillsborough Street Raleigh, North Carolina 27607	(919) 546-3046 Brett.Koelsch@ duke-energy.com
	Andrey Oks Manager	Northeast Power Coordinating Council 1040 Avenue of the Americas 10th floor New York, New York 10018-3703	212-840-1070 (212) 302-2782 Fx aoks@npcc.org
	Dick Pursley	Great River Energy 17845 East Highway 10 P.O. Box 800 Elk River, Minnesota 55330	762-241-2249 dpursley@ grenergy.com
	Tim Reynolds Compliance Engineer - Enforcement	Western Electricity Coordinating Council 155 North 400 West, Suite 200 SLC, Utah 84103	8018836883 8013002493 Fx treynolds@ wecc.biz

Paul W Rice Assistant Director, Operations	Western Electricity Coordinating Council 155 North 400 West Suite 200 Salt Lake City, Utah 84103	(801) 883-6876 (801) 582-3918 Fx paul@wecc.biz	
Dan R Schoenecker Vice President of Operations	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1753 (651) 855-1712 Fx dr.schoenecker@ midwestreliability.org	
Jacquie Smith Principal Engineer	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(216) 503-0612 (330) 456-3648 Fx jacquie.smith@ rfirst.org	
G Brantley Tillis, P.E.	3300 Exchange Place Lake Mary, Florida 32746	407-942-9569 407-256-9675 Fx brantley.tillis@ pgnmail.com	
Alan C Wahlstrom	201 Worthen Drive Littlerock, Arkansas 72223	(501) 688-1624 (501)351-3410 Fx awahlstrom.re@ spp.org	
Jason Hickman Senior Reliability Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 710-4885 Fx jason.hickman@ nerc.net	
<b>NERC Staff</b>	Jule W. Tate Associate Director, Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2572 (404) 446-2595 Fx jule.tate@ nerc.net

## Joint Steering Group

<b>CIPC Vice Chairman</b>	Charles F. Abell, P.E. Supervising Engineer	Ameren Corp. 1901 Chouteau Ave. MC-630 St. Louis, Missouri 63103	(314) 554-3817 (314) 206-0046 Fx cfabell@ ameren.com
<b>OC Vice Chairman SIR TF Chairman</b>	Tom Bowe Executive Director of Reliability and Compliance	PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, Pennsylvania 19403	(610) 666-4776 (610) 666-4287 Fx Tom.Bowe@ pjmexch01.pjm.com
<b>NERC, ESCC Support</b>	Stuart J. Brindley	SJBrindley Consulting Station A Box 4474 Toronto, Ontario M5W 4E5	(905) 464-4211 stuart.brindley@ gmail.com
<b>OC Vice Chairman</b>	James D. Castle Manager of Reliability Compliance and Industry Affairs	New York Independent System Operator 10 Krey Blvd Rensselaer, New York 12114	(518) 356-6244 (518) 356-6118 Fx jcastle@ nyiso.com
<b>PC Vice Chairman</b>	Ben Crisp Director of Assessments	SERC Reliability Corporation 2815 Coliseum Centre Drive Suite 500 Charlotte, North Carolina 28217	(704) 940-8237 bcrisp@serc1.org
<b>CIPC Chairman</b>	Barry R. Lawson Associate Director, Power Delivery & Reliability	National Rural Electric Cooperative Association 4301 Wilson Boulevard Mailcode GR11-253 Arlington, Virginia 22203	(703) 907-5781 (703) 907-5517 Fx barry.lawson@ nreca.coop
<b>PC Vice Chairman</b>	Jeffrey L Mitchell Director - Reliability Assessment and Performance Analysis	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(221) 503-0686 (330) 456-3648 Fx jeff.mitchell@ rfirst.org

## Legal Advisory Committee

Ruben Arredondo Senior Legal Counsel	Western Electricity Coordinating Council 155 North 400 West Suite 200 Salt Lake City, Utah 84103-1114	(801)-819-7674 raredondo@ wecc.biz
Cynthia S. Bogorad	Spiegel & McDiarmid 1333 New Hampshire Ave, N.W. Washington, D.C. 20036	(202) 879-4000 (202) 393-2866 Fx cynthia.bogorad@ spiegelmc.com
Greg Butrus Partner	Balch & Bingham Sixth Avenue North P.O. Box 306 Birmingham, Alabama 35201-0306	(205) 226-8776 (205) 488-5676 Fx gbutrus@ balch.com
Jack Cashin Directory of Regulatory Affairs	Electric Power Supply Association 1401 New York Avenue, NW Washington, D.C. 20005	202-349-0155 202-628-8260 Fx jcashin@epsa.org
Aryeh Fishman	701 Pennsylvania Ave, NW Washington, D.C. 20004	2025085023 afishman@eei.org
Maria Gulluni Assistant General Counsel - Corporate	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040-2841	(413) 540-4473 (413) 535-4379 Fx mgulluni@ iso-ne.com
Kristin Halper	Northeast Power Coordinating Council 1040 Avenue of the Americas 10th Floor New York, New York 10018	(917) 934-7979 khalper@npcc.org
Alison Hayes Senior Compliance Analyst	Southwest Power Pool, Inc. 415 N. McKinley Ste 140 Little Rock, Arkansas 72205	(501) 688-1623 (501) 664-6923 Fx ahayes@spp.org
Damase Hebert		(212) 205-7069 dhebert@npcc.org
Andrew S. Katz Senior Counsel	Northeast Utilities 601 Pennsylvania Avenue N.W. Suite 620-S Washington, D.C. 20004-2601	(202) 508-0903 (202) 247-3775 Fx katzas@nu.com
Susan N. Kelly President and CEO	American Public Power Association 2451 Crystal Drive Suite 1000 Arlington, Virginia 22202	(202) 467-2933 (202) 467-2910 Fx skelly@ publicpower.org
Stephen G. Kozey Vice President and General Counsel	MISO P.O. Box 4202 Carmel, Indiana 46082	(317) 249-5431 (317) 249-5912 Fx skozey@ midwestiso.org

Steve Larson Executive Vice President and Assistant General Counsel	Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208-3621	(503) 230-4999 (503) 230-7405 Fx srlarson@bpa.gov
Rich Meyer Senior Regulatory Counsel	National Rural Electric Cooperative Association 4301 Wilson Boulevard Arlington, Virginia 22203	(703) 907-5811 (703) 907-5517 Fx rich.meyer@ nreca.coop
Jay Morrison Senior Regulatory Counsel	National Rural Electric Cooperative Association 4301 Wilson Boulevard EP11-253 Arlington, Virginia 22203	(703) 907-5517 jay.morrison@ nreca.coop
George O'Connor Partner	Ryan, Phillips, Utrecht & MacKinnon 1133 Connecticut Avenue N.W. Suite 300 Washington, D.C. 20036	(202) 778-4053 george@rpum.com
Sara E Patrick Director of Regulatory Affairs & Legal Counsel	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1708 (651) 855-1712 Fx se.patrick@ midwestreliability.org
Mark M. Rabuano Associate	Leboeuf, Lamb, Greene & MacRae 1101 New York Avenue N.W. Suite 1100 Washington, D.C. 20005-4213	(202) 986-8042 mrabuano@ llgm.com
Jonathan Schneider Attorney	Sinson Morrison Hecker, LLP 1150 18th Street N.W. Suite 800 Washington, D.C. 20036-3816	(202) 728-3034 jonathan.schneider@ stinsonleonard.com
Grace D. Soderberg Director, Energy Supply	Edison Electric Institute 1101 Vermone Ave., NW Suite 200 Washington, D.C. 20005	(202) 898-1350 (202) 898-2213 Fx gsoderberg@ eei.org
Lori Spence Deputy General Counsel	MISO P.O. Box 4202 Carmel , Indiana 46082-4202	(317) 249-5442 (317) 249-5912 Fx lspence@ misoenergy.org
Stephen M. Spina Attorney	Morgan, Lewis & Bockius 1111 Pennsylvania Avenue, N.W. Washington, D.C. 20004	(202) 739-5958 (202) 739-3001 Fx sspina@ morganlewis.com
Bonnie A. Suchman Attorney	Troutman Sanders LLP 401 9th Street, N.W. Suite 1000 Washington, D.C. 20004-2134	(202) 274-2908 (202) 274-2994 Fx bonnie.suchman@ troutmansanders.com
Bob Wargo Director of Enforcement	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(330) 456-5408 Fx bob.wargo@ rfirst.org



William F. Young  
Partner

Hunton & Williams  
1900 K St., N.W.  
Washington, D.C. 20006-1109

(202) 955-1684  
(202) 828-3740 Fx  
byoung@  
hunton.com

Peter H. Zamore  
Esquire

Sheehey Furlong & Behm P.C.  
30 Main Street  
P.O. Box 66  
Burlington, Vermont 05402-0066

(802) 864-9891 Ext.  
216  
(802) 864-6815 Fx  
pzamore@  
sheeheyvt.com

**NERC Staff**

Holly Hawkins  
Assistant General Counsel for  
Standards and CIP

North American Electric Reliability  
Corporation  
1325 G Street, N.W.  
Suite 600  
Washington, D.C. 20005-3801

(202) 400-3000  
(202) 644-8099 Fx  
holly.hawkins@  
nerc.net

**NERC Staff**

Sonia C Mendonca  
Deputy General Counsel and Vice  
President of Compliance and  
Enforcement

North American Electric Reliability  
Corporation  
1325 G Street, N.W.  
Suite 600  
Washington, D.C. 20005

(202) 400-3000  
(202) 644-8099 Fx  
sonia.mendonca@  
nerc.net

**NERC Staff**

Rebecca Michael  
Senior Director, Reliability

North American Electric Reliability  
Corporation  
1325 G Street, N.W.  
Suite 600  
Washington, D.C. 20005-3801

(202) 400-3000  
(202) 644-8099 Fx  
rebecca.michael@  
nerc.net

## Member Representatives Committee

<b>Chair</b>	Sylvain Clermont Manager Transmission Services	Hydro-Quebec TransEnergie Complexe Desjardins, Tour de l'est C.P. 10 000, 19th floor Montreal, Quebec H5B 1H7	(514) 879-4648 clermont.sylvain@hydro.qc.ca
<b>Vice Chair</b>	Nabil Hitti Director, US Business Development	National Grid 40 Sylvan Road Waltham, Massachusetts 02451	(781) 907-2657 Nabil.Hitti@nationalgrid.com
<b>Secretary</b>	Kristin Iwanechko Associate Director, Member Relations and MRC Secretary	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx kristin.iwanechko@nerc.net
<b>Cooperative</b>	Jay C Bartlett President & CEO	Wabash Valley Power Association 722 North High School Road Indianapolis, Indiana 46214	317-383-1286 217-245-1705 Fx j_bartlett@wvpa.com
<b>Electricity Marketer</b>	Scott Helyer	Tenaska, Inc. 1701 E. Lamar Blvd., Suite 100 Arlington, Texas 76006	817-371-5617 (817) 371-5617 Fx Scotth0960@gmail.com
	Murray Doehler	1601 Lower Water Street 3rd Floor, Summit Place Halifax, Nova Scotia B3J 3S3	(902) 424-4448 Murray.Doehler@novascotia.ca
	Richard Doying	Midcontinent ISO P.O. Box 4202 Carmel, Indiana 46082	317-249-5120 rdoying@misoenergy.org
	Donald M Holdsworth Director NERC Compliance	Public Service Enterprise Group ,	973-456-3532 donald.holdsworth@pseg.com
	Lane Lanford President and CEO	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4940 lane.lanford@texasre.org
	Marion Lucas President APMLLC, Chief Compliance Officer APGI	Alcoa, Inc. 300 North Hall Road MS-#T1521 Alcoa, Tennessee 37701	(865) 977-3570 (865) 977-2346 Fx marion.lucas@alcoa.com
	Lou Oberski Managing Director Electric Market Policy and NERC Compliance	Dominion Resources, Inc. 120 Tredegar Street Pumphouse 1st Floor Richmond, Virginia 23219	805-819-2837 Lou.oberski@dom.com
	David Osburn General Manager	Oklahoma Municipal Power Authority ,	405-359-2501 405-359-1071 Fx dosburn@ompa.com

	John Pespisa Director, NERC Compliance Program	Southern California Edison Company 2244 Walnut Grove Avenue GO4, Quad 1D, G20R Rosemead, California 91770	(626) 302-3308 john.pespisa@ sce.com
	Frederick R Plett Utility Analyst	Massachusetts Attorney General 100 Cambridge Street, 12th Floor (Mail: One Ashbur Boston, Massachusetts 02108	617-963-2183 617-963-2998 Fx frederick.plett@ state.ma.us
	Timothy E Ponseti Vice President, Transmission Operations & Power Supply	Tennessee Valley Authority 1101 Market Street MR-1B Chattanooga, Tennessee 37402	423-751-2699 (423) 751-6128 Fx teponseti@ tva.gov
	Gordon van Welie President & CEO	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040-2841	(413) 535-4300 (413) 540-4298 Fx gvanwelie@ iso-ne.com
<b>Electricity Marketer</b>	Jason L Marshall, P.E. Vice President of Corporate and Regulatory Affairs	ACES 4140 West 99th Street Carmel, Indiana 46032	(317) 344-7204 jmarshall@ acespower.com
<b>Federal/Provincial</b>	Cam Matheson Vice President	BC Hydro and Power Authority 6911 Southpoint Drive (B03) Burnaby, British Columbia V3N 4X8	(604) 515-8503 Cam.matheson@ bchydro.com
<b>Federal/Provincial</b>	Anthony H. Montoya Chief Operating Officer	Western Area Power Administration 12155 W. Alameda Pkwy Lakewood, Colorado 80228	(720) 962-7071 (720) 962-7246 Fx tmontoya@ wapa.gov
<b>Federal/Provincial</b>	Michael D. Penstone Vice President, Transmission Projects	Hydro One Networks, Inc. 483 Bay Street, NT15 Toronto, Ontario M5G 2P5	(416) 345-5444 (416) 345-5422 Fx mike.penstone@ hydroone.com
<b>State Government</b>	David R. Clark Commissioner	Utah Public Service Commission 160 E. 300 S., 4th Floor 84111 Salt Lake City, Utah 84111	(801) 530-6716 (801) 530-6796 Fx drexclark@ utah.gov
<b>State Government</b>	Asim Haque Commissioner	Public Service Commission of Ohio	614-466-3101 Asim.Haque@ puc.state.oh.us
<b>Investor Owned Utility</b>	V. Nelson Peeler Vice President, Transmission System Operations	Duke Energy 526 S. Church Street Mail Code: EC3ZJ Charlotte, North Carolina 28202	704-382-3851 704-382-8375 Fx nelson.peeler@ duke-energy.com
<b>ISO/RTO</b>	Steve Berberich	California ISO 250 Outcropping Way Folsom, California 95630	916-351-4440 sberberich@ caiso.com
<b>ISO/RTO</b>	Bruce Campbell President and CEO	Independent Electricity System Operator	416-506-2829 416-506-2804 Fx bruce.campbell@ ieso.ca

<b>Large End-Use Electricity Customer</b>	Michelle D'Antuono Manager, Energy	Occidental Energy Ventures Corp 5 Greenway Plaza, Suite 110 Houston, Texas 77001	(713) 215-7064 (713) 215-7571 Fx michelle_dantuono@oxy.com
<b>Merchant Electricity Generator</b>	Martin Sidor Director, Regulatory Compliance	NRG Energy, Inc. 211 Carnegie Center Princeton, New Jersey 08540	Fx
<b>Small End-Use Electricity Customer</b>	Jackie Roberts	West Virginia Consumer Advocate Division 723 Knawha Blvd Union Bldg. Suite 700 Charleston, West Virginia 25301	(304) 558-0526 jroberts@cad.state.wv.us
<b>Transmission Dependent Utility</b>	William J Gallagher Special Projects Chief	Vermont Public Power Supply Authority 104 Hampton Meadows Hampton, New Hampshire 03842	(802) 839-0562 (802) 244-6889 Fx bgallagher@vppsa.com
<b>Transmission Dependent Utility</b>	John R Twitty Executive Director	Transmission Access Policy Study Group PO Box 14364 Springfield, Missouri 65814	4178388576 835consulting@gmail.com
<b>State/Municipal</b>	Carol Chinn Regulatory Compliance Officer	Florida Municipal Power Agency 8553 Commodity Circle Orlando, Florida 32819	(321) 239-1065 Carol.Chinn@fmpa.com
<b>State/Municipal</b>	Jacqueline Sargent General Manager/CEO	Platte River Power Authority 2000 East Horsetooth Road Fort Collins, Colorado 80525	(970) 226-4000 sargentj@prpa.org
<b>Regional Entity (Non-Voting) SERC</b>	Gregory Ford President & CEO	Georgia System Operations Corporation 2100 East Exchange Place P.O. Box 2087 Tucker, Georgia 30085/2087	770-270-7955 (770) 270-7320 Fx greg.ford@gasoc.com
<b>Regional Entity (Non-Voting) FRCC</b>	Dennie Hamilton Executive Vice President and Chief Executive Officer	Lee County Electric Cooperative 4980 Bayline Drive North Fort Myers, Florida 33917-3910	(239) 656-2377 Dennie.Hamilton@lcec.net
<b>Regional Entity (Non-Voting) NPCC</b>	Harvey J. Reed NPCC Chairman	Northeast Power Coordinating Council 14 Berwick Road Ruxton, Maryland 21204	(410) 583-1784 harveyreed@verizon.net
<b>Regional Entity (Non-Voting) WECC</b>	Jim Robb CEO	Western Electricity Coordinating Council 155 North 400 West Suite 200 Salt Lake City, Utah 84103	(801) 819-7665 jrobb@wecc.biz
<b>Canada Federal (Non-Voting)</b>	Amitabha Tab Gangopadhyay Professional Engineer	National Energy Board 444 Seventh Avenue SW Calgary, Alberta T2P 0X8	(403) 299-3611 (403) 292-5503 Fx tgangopadhyay@neb-one.gc.ca
<b>U.S. Federal (Non-Voting)</b>	Michael Bardee Office of the General Counsel	Federal Energy Regulatory Commission 888 First Street NE Washington, D.C. 20426	(202) 502-6000 michael.bardee@ferc.gov

**U.S. Federal  
(Non-Voting)**

Patricia Hoffman  
Assistant Secretary for Electricity  
Delivery and Energy Reliability  
U.S. Department of Energy

Department of Energy  
1000 Independence Avenue  
SW 6e-069  
Washington, D.C. 20045

(202) 586-1411  
patricia.hoffman@  
hq.doe.gov

**U.S. Federal  
(Non-Voting)**

David Ortiz  
Deputy Assistant Secretary

U.S. Department of Energy  
1000 Independence Avenue SW  
Washington, D.C. 20585

(202) 586-5000  
David.Ortiz@  
hq.doe.gov

**NERC Staff**

Gerry W Cauley  
President and Chief Executive  
Officer

North American Electric Reliability  
Corporation  
3353 Peachtree Road, N.E.  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(704) 840-7542 Fx  
Gerry.Cauley@  
nerc.net

## Operating Committee

<b>Chair</b>	James S Case Director, System Operations Center North	Entergy Services, Inc. 5201 W. Barraque Street Pine Bluff, Arkansas 71602	(870) 541-3908 (870) 541-3964 Fx jcase@ entergy.com
<b>Vice Chair</b>	Lloyd A Linke Vice President of Operations for UGPR	Western Area Power Administration 1330 41st Street PO Box 790 Watertown, South Dakota 57201	605 882-7500 (605)-882-7409 Fx lloyd@wapa.gov
<b>Secretary</b>	Larry J Kezele Senior Manager of Operations	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(609) 273-0839 (404) 446-2595 Fx larry.kezele@ nerc.net
<b>RE-FRCC</b>	Ronald L. Donahey Director, Grid Operations and Planning	Tampa Electric Co. P.O. Box 111 Tampa, Florida 33601-0111	(813) 630-6261 (813) 630-6299 Fx rldonahey@ tecoenergy.com
<b>RE-MRO</b>	Dick Pursley	Great River Energy 17845 East Highway 10 P.O. Box 800 Elk River, Minnesota 55330	762-241-2249 dpursley@ grenergy.com
<b>RE-NPCC</b>	Ralph Rufrano Manager, Compliance Violation Investigation	Northeast Power Coordinating Council 1040 Avenue of the Americas New York, New York 10018	(212) 205-7055 rrufrano@ npcc.org
<b>RE-RFC</b>	John Idzior Senior Engineer, Reliability	ReliabilityFirst 3 Summit Park Drive Suite 600 Cleveland, Ohio 44131	216-503-0615 (330) 456-3648 Fx john.idzior@ rfirst.org
<b>RE-SERC</b>	Sammy Roberts Portfolio Manager	Progress Energy Carolinas 3401 Hillsborough St Raleigh, North Carolina 27607	(919) 546-5678 (919) 546-4048 Fx Sammy.Roberts@ duke-energy.com
<b>RE-SPP</b>	James Useldinger VP, Operations	Gridliance 2 N. LaSalle Street Suite 420 Chicago, Illinois 60602	(816) 719-9718 (816)-654-1189 Fx juseldinger@ gridliance.com
<b>RE-TRE</b>	Alan Bern Sr. Director, Transmission Grid Operations	Oncor Electric Delivery 2233-B Mountain Creek Parkway Dallas, Texas 75211	(214) 743-6839 Alan.Bern@ oncor.com
<b>RE-WECC</b>	Jerry Rust President	Northwest Power Pool 7505 NE Ambassador Place, Suite R Portland, Oregon 97220	(503)-445-1074 (503)-445-1070 Fx jerry@nwpp.org

<b>Cooperative</b>	Keith V Carman Sr. Manager, Transmission System Operations	Tri-State Generation & Transmission Association, Inc. 1100 W. 116th Avenue Westminster, Colorado 80234	(303) 254-3259 (303) 881-7756 Fx kcarman@ tristategt.org
<b>Cooperative</b>	Jeffrey L Harrison Manager System Operations	Associated Electric Cooperative, Inc. 2814 S. Goldern P.O. Box 754 Springfield, Missouri 65801	(417) 885-9316 jharrison@ aeci.org
<b>Electricity Marketer</b>	To Be Named		
<b>Electricity Marketer</b>	To Be Named		
<b>Federal/Provincial</b>	Stuart Goza General Manager, Balancing Authority and Resource Operations	Tennessee Valley Authority 1101 Market Street MRBA Chattanooga, Tennessee 37402-2801	(423) 751-8941 slgoza@tva.gov
<b>Federal/Provincial</b>	Tom Irvine Director Network Operating Division	Hydro One Networks, Inc. 49 Sarjeant Drive Barrie, Ontario L4N-4V9	(705) 792-3004 (705) 792-3012 Fx tom.irvine@ hydroone.com
<b>Federal/Provincial</b>	Pierre Paquet Director System Control	Hydro-Quebec 2 Complexe Desjardins Tour Est, 19e etage Montreal, Quebec H5B 1H7	(514)-879-4655 (514)-879-4689 Fx paquet.pierre@ hydro.qc.ca
<b>Federal/Provincial</b>	Michelle Rheault	Manitoba Hydro ,	(204) 487-5445 (204) 487-5496 Fx mdrheault@ hydro.mb.ca
<b>State Government</b>	Bill Chambliss General Counsel	Virginia State Corporation Commission 1300 East Main Street Richmond, Virginia 23219	(804) 371-9671 (804) 371-9240 Fx william.chambliss@ scc.virginia.gov
<b>State Government</b>	Patricia Poli Engineer	Michigan Public Service Commission 4300 W. Saginaw Lansing, Michigan 48909	(517) 241-6141 Polip@ michigan.gov
<b>Investor Owned Utility</b>	Gerald D Beckerle Senior Transmission Operations Supervisor	Ameren Services 1901 Chouteau Avenue, MC 630 St. Louis, Missouri 63166	(314)-554-6413 gbeckerle@ ameren.com
<b>Investor Owned Utility</b>	Todd Lucas Bulk Power Operations, GM	Southern Company	205-769-7504 telucas@ southernco.com
<b>ISO/RTO</b>	Leonard Kula Manager, System Operations	Independent Electricity System Operator Station A, Box 4474 Toronto, Ontario M5W 4E5	905-855-4115 (905) 855-6319 Fx leonard.kula@ ieso.ca

<b>ISO/RTO</b>	David W. Souder Director, Operations Support and Planning	PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, Pennsylvania 19403	(610) 666-4795 (610) 666-4282 Fx David.souder@pjm.com
<b>ISO/RTO</b>	David T. Zwergel Sr. Director, Regional Operations	MISO 701 City Center Drive P.O. Box 4202 Carmel, Indiana 46082-4202	(317) 249-5452 (317) 249-5910 Fx dzwergel@misoenergy.org
<b>Large end-use electricity customer</b>	To Be Named		
<b>Large end-use electricity customer</b>	Thomas W Siegrist Consulting Engineer	Stone, Mattheis, Xenopoulos & Brew, P.C. ,	678-520-6954 TWS@smxblaw.com
<b>Merchant Electricity Generator</b>	Thomas Leeming Director, Transmission Operations and Planning	Exelon Corporation	(630) 437-3428 thomas.leeming@ComEd.com
<b>Merchant Electricity Generator</b>	JT Thompson	None 1331 Lamar, Suite 560 Houston, Texas 77010	(713) 332-2901 (443) 213-3674 Fx jtjt1@msn.com
<b>Small End-Use Electricity Customer</b>	Robert Blohm	Keen Resources Ltd. 68 Walker Avenue Toronto, Ontario M4V 1G2	514 295 6301 (208) 485-4056 Fx rb112@columbia.edu
<b>Small End-Use Electricity Customer</b>	Kevin Conway EVP Operations	INTELLIBIND 14520 Wunderlich Drive Houston, Texas 77069	(509) 937-2211 (509) 750-5441 Fx Kevinc@intellibind.com
<b>State/Municipal</b>	Richard K Kinas Manager of Standards Compliance	Orlando Utilities Commission 6113 Pershing Avenue Orlando, Florida 32822	rkinas@ouc.com
<b>State/Municipal</b>	Doug Peterchuck Manager, Reliability Compliance and Transmission Operations	Omaha Public Power District 4325 Jones Plaza Omaha, Nebraska 68105	(402)-552-5181 (402)-552-5679 Fx dpeterchuck@oppd.com
<b>Transmission Dependent Utility</b>	Mark Ennis	Alabama Municipal Electric Authority P.O. Box 5220 Suite 200 Montgomery, Alabama 36103	334-387-3511 mennis@amea.com
<b>Transmission Dependent Utility</b>	John Stephens Director, Power System Control	City Utilities of Springfield 301 E. Central St. Springfield, Missouri 65801	(417) 831-8470 (417) 831-8581 Fx John.Stephens@cityutilities.net
	To Be Named		
<b>Canadian Provincial Non-voting Representative</b>	Daniel Soulier Economic Regulation Specialist	Regie de l'energie	(514) 873-2452 (514) 873-3037 Fx daniel.soulier@regie-energie.qc.ca



To Be Named

**U.S. Federal**

Richard M Sobonya  
Manager - Operations Group

Federal Energy Regulatory Commission  
888 First Street NE  
Washington, D.C. 20426

(202) 502-6534  
richard.sobonya@  
ferc.gov

## Operating Committee Executive Committee

Gerald D Beckerle Senior Transmission Operations Supervisor	Ameren Services 1901 Chouteau Avenue, MC 630 St. Louis, Missouri 63166	(314)-554-6413 gbeckerle@ ameren.com
Keith V Carman Sr. Manager, Transmission System Operations	Tri-State Generation & Transmission Association, Inc. 1100 W. 116th Avenue Westminster, Colorado 80234	(303) 254-3259 (303) 881-7756 Fx kcarman@ tristategt.org
James S Case Director, System Operations Center North	Entergy Services, Inc. 5201 W. Barraque Street Pine Bluff, Arkansas 71602	(870) 541-3964 Fx jcase@ entergy.com
Dennis Florom Manager, Energy and Environmental Operations	Lincoln Electric System 2620 Fairfield Street Lincoln, Nebraska 68501-0869	(402) 467-6862 (402) 466-6479 Fx dflorom@les.com
Lloyd A Linke Vice President of Operations for UGPR	Western Area Power Administration 1330 41st Street PO Box 790 Watertown, South Dakota 57201	605 882-7500 (605)-882-7409 Fx lloyd@wapa.gov
David W. Souder Director, Operations Support and Planning	PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, Pennsylvania 19403	(610) 666-4795 (610) 666-4282 Fx David.souder@ pjm.com
Larry J Kezele Senior Manager of Operations	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(609) 273-0839 (404) 446-2595 Fx larry.kezele@ nerc.net
James Merlo Senior Director of Reliability Risk Management	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx james.merlo@ nerc.net

## Operating Reliability Subcommittee

<b>Chair</b>	Eric Senkowicz Director of Operations	Florida Reliability Coordinating Council 3000 Bayport Drive Suite 600 Tampa, Florida 33607	(813) 207-7980 esenkowicz@ frcc.com
<b>Vice Chair</b>	David J Devereaux Manager of Control Room Support	Independent Electricity System Operator 2635 Lakeshore Road West Mississauga, Ontario L5J 4R9	905-855-6439 david.devereaux@ ieso.ca
	Carlie M Brown Manager, Balancing Authority	Southwest Power Pool, Inc. 201 Worthen Dr Little Rock, Arkansas 72223	(501) 614-3569 (501) 482-2013 Fx cbrown@spp.org
	Tony Burt Manager of Operations - Vancouver	Peak Reliability 7600 NE 41st St. Suite 201 Vancouver, Washington 98662	360.553.3026 360.831.1256 Fx tburt@peakrc.com
	James E. Hartmann, Jr. Senior Manager, Systems Operations	Electric Reliability Council of Texas, Inc. 2705 West Lake Drive Taylor, Texas 76574	(512) 248-6986 (512) 248-3055 Fx jhartmann@ ercot.com
	Anthony P Jankowski Manager, Electric System Operations	We Energies W237 N1500 Busse Road Waukesha, Wisconsin 53188	(262) 544-7117 (262) 544-7099 Fx tony.jankowski@ we-energies.com
	Richard W Kiess Manager, Reliability Coordination	Peak Reliability 4850 Hohns peak Drive Loveland, Colorado 80538	(970) 776-5567 wkiess@ peakrc.com
	Richard McCall Director, Environmental & Transmission Compliance	North Carolina Electric Membership Corp. 3400 Sumner Boulevard Raleigh, North Carolina 27616	(919) 875-3097 (919) 954-1080 Fx richard.mccall@ ncemcs.com
	Michael McMullen Director, Regional Operations	Midcontinent ISO 2985 Ames Crossing Road Eagan, Minnesota 55121	mmcmullen@ misoenergy.org
	Maxime Nadeau Manager – System Scheduling and Settlements	Hydro-Quebec TransEnergie 2 Complexe Desjardins Tour est - Centre Hydro - B1 Montreal, Quebec H5B 1H7	(514) 289-2211 ext. 4044 (514) 289-4556 Fx nadeau.maxime@ hydro.qc.ca
	John R. Norden Director, Operations	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040-2841	(413) 537-7699 (413) 535-4343 Fx jnorden@ iso-ne.com
	Christopher Pilog Manager of Dispatch	PJM Interconnection, L.L.C. 955 Jefferson Ave Norristown, Pennsylvania 19403	(610) 666-8917 christopher.pilog@ pjm.com

Donald E. Reichenbach Manager, System Operations	Duke Energy ECO2B 526 South Church Street Charlotte, North Carolina 28202	(704) 382-3146 (704) 382-0380 Fx don.reichenbach@ duke-energy.com
Steven C. Sanders Operations & Transmission Advisor	Western Area Power Administration - UGPR 2900 4th Avenue North Room 600 P.O. Box 35800 Billings, Montana 59101	(406) 255-2840 (406) 255-2900 Fx sanders@wapa.gov
Nathan A Schweighart Manager, Reliability Operations	Tennessee Valley Authority 1101 Market Street PCC 2A Chattanooga, Tennessee 37402-2801	(423) 751-7755 (423) 697-4125 Fx naschweighart@ tva.gov
J. Clifford Shepard Project Manager, Generation	Southern Company Generation 600 North 18th Street BS-8261 Birmingham, Alabama 35202	(205) 257-6116 (205) 257-5792 Fx jcshepar@ southernco.com
Lacy Skinner Assistant Chief System Operator	New York Independent System Operator 10 Krey Blvd Rensselaer, New York 12144	(518) 356-7567 (518) 356-6118 Fx lskinner@ nyiso.com
Christopher A Wakefield	Southern Company Services, Inc. 600 North 18th Street / BIN:LLF P.O. Box 2641 Birmingham, Alabama 35291-8210	205-769-7526 cwakefie@ southernco.com
<b>NERC Staff</b>	Larry J Kezele Senior Manager of Operations	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326
		(609) 273-0839 (404) 446-2595 Fx larry.kezele@ nerc.net

## Performance Analysis Subcommittee

<b>Chair</b>	Melinda K Montgomery	425 West Capitol Ave 40th Floor Little Rock, Arkansas 72201	(870) 329-7666 (870) 541-3964 Fx mmontg3@ entergy.com
<b>Vice Chair</b>	Heide C Caswell Director - Network Performance	PacifiCorp 825 NE Multnomah Suite 1500 Portland, Oregon 97232	(503) 813-6216 (503) 813-6892 Fx heide.caswell@ pacificorp.com
	Ben Aldous Analyst, Performance Analysis	WECC ,	(801) 819-7638 baldous@wecc.biz
	Suzanne Brignone	Western Electricity Coordinating Council ,	(801) 819-7620 (801) 582-3981 Fx sbrignone@ wecc.biz
	Gary S. Brinkworth, P.E. Senior Manager	Tennessee Valley Authority 1101 Market St. MR3K-C Chattanooga , Tennessee 37402	423-751-2193 (423) 208-6880 Fx Gsbrinkworth@ tva.gov
	Gary T Brownfield Supervising Engineer, Transmission Planning	Ameren Services 1901 Chouteau Avenue MC 691 Saint Louis, Missouri 63166-6149	(314) 554-2556 (314) 554-3268 Fx gbrownfield@ ameren.com
	Robert M Collins Reliability Engineer III	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4986 (512) 233-2233 Fx
	Robert M Collins Reliability Engineer III	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4986 (512) 233-2233 Fx bob.collins@ TEXASRE.org
	Josh Collins Reliability Engineer	SERC Reliability Corporation 3701 Arco Corporate Dr Suite 300 Charlotte, North Carolina 28273	704-494-7777 jcollins@ serc1.org
	Leeth DePriest	Southern Company Services, Inc. 42 Inverness Center Parkway BIN 418 Birmingham, Alabama 34242	(205) 992-7929 mldeprie@ southernco.com
	Carolyn Ingersoll	None ,	713-332-2906 cjingersoll1@ gmail.com
	Paul D Kure Senior Consultant, Resources	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(216) 503-0611 (330) 456-3648 Fx paul.kure@ rfirst.org

Jake S Langthorn, P.E. Transmission Tariff Coordinator	Oklahoma Gas and Electric Co. 320 N Harvey Oklahoma City, Oklahoma 73101	405-553-3409 (405) 553-3165 Fx langthjs@oge.com
Durgesh Manjure Manager, Modeling	MISO 1125 Energy Park Drive St. Paul, Minnesota 55108	(651) 632-8410 (651) 632-8417 Fx dmanjure@ misoenergy.org
Matt Pawlowski Compliance Manager	NextEra Energy Resources, LLC 700 Universe Boulevard Juno Beach, Florida 33408	(561) 304-5465 (561) 304-5161 Fx matt.pawlowski@ nexteraenergy.com
Maggie Peacock Reliability Assessment Analyst	Western Electricity Coordinating Council 155 N 400 W Ste 200 Salt Lake City, Utah 84103	8018197621 mpeacock@ wecc.biz
Victoria Ravenscroft	WECC	vravenscroft@ wecc.biz
Bob Reynolds	Southwest Power Pool RE 201 Worthen Drive Little Rock, Arkansas 72223	5016888227 bdreynolds.re@ spp.org
Rafael Sahiholamal	Northeast Power Coordinating Council 1040 Avenue of the Americas New York, New York 10018	(212) 2057064 RSAHIHOLAMAL @ NPCC.ORG
Jeff Schaller Performance Manager	Hydro One Networks, Inc. 483 Bay Street TCT14 Toronto, Ontario M5G 2P5	(416) 345-5268 (416) 345-5401 Fx jeff.schaller@ HydroOne.com
John Seidel Senior Mgr, Event Analysis and Reliability Improvement	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1716 (651) 855-1712 Fx ja.seidel@ midwestreliability.org
Tom Sims Planning Manager, Modeling and Strategic Planning	Southern Company Services, Inc. P.O. Box 2641 Birmingham, Alabama 35291	(205) 257-5298 trsims@ southernco.com
Francis Talbot	Hydro-Quebec TransEnergie 150 Ste-Catherine Street West, East tower, 9th flo Montreal, Quebec H2X 3Y2	514-879-4100 ext. 5437 talbot.francis@ hydro.qc.ca
G Brantley Tillis, P.E.	3300 Exchange Place Lake Mary, Florida 32746	407-942-9569 407-256-9675 Fx brantley.tillis@ pgnmail.com

Alan C Wahlstrom	201 Worthen Drive Littlerock, Arkansas 72223	(501) 688-1624 (501)351-3410 Fx awahlstrom.re@spp.org
Kurt Weisman Reliability Performance Project Manager	American Transmission Company, LLC W234 N2000 Ridgeview Pkwy. Ct. Waukesha, Wisconsin 53188	(262) 506-6920 (262) 832-8650 Fx kweisman@atllc.com
Eddy Lim Senior Electrical Engineer	Federal Energy Regulatory Commission 888 First Street NE 92-79 Washington, D.C. 20426	(202) 502-6713 (202) 441-5724 Fx Eddy.Lim@ferc.gov
Svetlana Ekisheva Principal Statistician	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx svetlana.ekisheva@nerc.net
Brad Gordon Manager of Reliability Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx brad.gordon@nerc.net
Naved Khan Compliance Enforcement Engineer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx naved.khan@nerc.net
Trinh Ly Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx trinh.ly@nerc.net
Ben McMillan Manager of Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx ben.mcmillan@nerc.net
Margaret Pate Reliability Risk Control Program Liaison	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Margaret.pate@nerc.net
Donna K Pratt Senior Performance Analysis Advisor	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9789 (404) 446-2595 Fx donna.pratt@nerc.net

Pooja Shah Senior Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9621 (404) 446-2595 Fx pooja.shah@ nerc.net
Andrew D Slone Senior Engineer, Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Andrew.Slone@ nerc.net
Lee Thaubald Technical Analyst	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx lee.thaubald@ nerc.net
David Till Sr. Manager, Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx david.till@ nerc.net
Matthew Varghese Senior Performance Analysis Engineer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx matthew.varghese@ nerc.net



## Personnel Certification Governance Committee

<b>Chairman</b>	Brett Hallborg Manager of Operations Training	BC Hydro   Grid Operations 8175 199th Street Langley, British Columbia BC V2Y 0E2	(604) 455-1778 brett.hallborg@ bchydro.com
<b>Vice Chairman</b>	Michael C Anderson Supervisor I, Transmission Real Time Operations	American Electric Power 8400 Smith's Mill Road New Albany, Ohio 43054	(614) 413-2311 mcanderson@ aep.com
<b>Member</b>	David J Carlson Principal NERC Compliance Specialist	Exelon Utilities 1N301 Swift Rd Lombard, Illinois 60148	630-691-4480 630-842-5614 Fx David.Carlson@ ComEd.com
	Keith V Carman Sr. Manager, Transmission System Operations	Tri-State Generation & Transmission Association, Inc. 1100 W. 116th Avenue Westminster, Colorado 80234	(303) 881-7756 Fx kcarman@ tristategt.org
	William D Ellard Supervisor, Power System Operations	Sacramento Municipal Utility District 6001 S. Street Sacramento, California 95817	(916) 732-6697 (916) 812-1974 Fx william.ellard@ smud.org
	Michael Hoke Senior Lead Trainer	PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, Pennsylvania 19403	610-666-4330 610-945-8519 Fx michael.hoke@ pjm.com
	John Kerr Performance Support Trainer	Southwest Power Pool, Inc. 201 Worthern Drive Little Rock, Arkansas 72223	(501) 688-1726 (501) 666-0376 Fx jkerr4614@ gmail.com
	Misty Revenew	ERCOT ,	5122484227 misty.renew@ ercot.com
	Mark Thomas Manager, Training	Entergy Transmission 5201 W. Barraque Street Pine Bluff, Arkansas 71602	(870) 541-4584 mthoma3@ entergy.com
	Donald J Urban Principal Analyst	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(216) 503-0621 (330) 413-7907 Fx don.urban@ rfirst.org
	Trion King Manager of Personnel Certification & Continuing Education Programs	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx trion.king@ nerc.net

## Planning Committee

	Dave Weaver Director, Transmission Operations & Planning	Exelon Corporation 2301 Market Street N2-6 Philadelphia, Pennsylvania 19103	(215) 841-5060 (215) 841-6319 Fx david.weaver@ peco-energy.com
	Brian Evans-Mongeon President and CEO	Utility Services, Inc. 1080 Waterbury-Stoew Road Suite 2 Waterbury, Vermont 05676	(802) 552-4022 (866) 214-8632 Fx brian.evans- mongeon@ utilitysvcs.com
	Elliott J Nethercutt Senior Technical Advisor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8089 (202) 744-8044 Fx elliott.nethercutt@ nerc.net
<b>ERCOT</b>	David Mercado	CenterPoint Energy Houston Electric	david.mercado@ CenterPointEnergy.c om
<b>FRCC</b>	Pedro Modia Director, Transmission Services and Planning	Florida Power & Light Co. 4200 West Flagler Street TSP/LFO Miami, Florida 33134	(305) 442-5246 (305) 442-5022 Fx pedro_modia@ fpl.com
<b>RRO-MRO</b>	Dale Burmester Manager, Major Projects/Transmission Planning	American Transmission Company, LLC 2 Fen Oak Court Madison, Wisconsin 53718	(608) 877-7109 (608) 444-2447 Fx dburmester@ atllc.com
<b>RRO-NPCC</b>	Phill Fedora Assistant Vice President, Reliability Services	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-4909 (212) 302-2782 Fx pfedora@npcc.org
<b>RRO-RFC</b>	Paul D Kure Senior Consultant, Resources	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(216) 503-0611 (330) 456-3648 Fx paul.kure@ rfirst.org
<b>RRO - SERC</b>	Doug McLaughlin Project Manager, Transmission Planning	Southern Company Services, Inc. 600 North 18th Street P.O. Box 2641 Birmingham, Alabama 35291-8183	(205) 257-6127 (205) 257-1040 Fx wdmclaug@ southernco.com
<b>RRO-SPP</b>	Noman Lee Williams	Gridliance W 301 13th Street P.O. Box 1020 Hays, Kansas 67601	(816) 492-2014 Nwilliams@ gridliance.com
<b>RRO-WECC</b>	Branden Sudduth Manager, Planning Services	Western Electricity Coordinating Council 615 Arapeen Dr Ste. 210 Salt Lake City , Utah 84108	(801) 883-6888 (801) 582-3918 Fx branden@wecc.biz

<b>Cooperative</b>	Paul McCurley Manager, Power Supply and Chief Engineer	National Rural Electric Cooperative Association 4301 Wilson Blvd Arlington, Virginia 22203	(703) 907-5867 (703) 907-5517 Fx paul.mccurley@ nreca.coop
<b>Cooperative</b>	Russell Schussler Vice President, System Planning	Georgia Transmission Corporation 2100 East Exchange Place Tucker, Georgia 30084	770.270.7565 770.270.7450 Fx russell.schussler@ gatrans.com
<b>Electricity Marketer</b>	Steven E Huber	Public Service Enterprise Group 80 Park Plaza T2b Newark, New Jersey 07102	973-430-5860 steven.huber@ pseg.com
<b>Electricity Marketer</b>	Brian Van Gheem Senior Reliability Compliance Specialist	ACES 4140 West 99th Street Carmel, Indiana 46032	(317) 344-7088 bvangheem@ acespower.com
<b>Federal/Provincial</b>	David Jacobson Interconnection & Grid Supply Planning Engineer	Manitoba Hydro 12-1146 Waverly Street P.O. Box 815 Winnipeg, Manitoba R3C 2P4	(204) 474-3765 (204) 477-4606 Fx dajacobson@ hydro.mb.ca
<b>Federal/Provincial</b>	Anders Johnson Electrical Engineer, Long Term Planning	Bonneville Power Administration 905 NE 11th Avenue - PGSD-S Portland, Oregon 98208	aljohnson@ bpa.gov
<b>Federal/Provincial</b>	Stephane Talbot Manager Bulk Transm. Syst.Planning and Strategies	Hydro-Quebec TransEnergie Direction Commercialisation Complexe Desjardins, Tour de l'est 9 etage, Case postale 10000 Montreal, Quebec H5B 1H7	Talbot.Stephane@ hydro.qc.ca
<b>Federal/Provincial</b>	Bing Young Director - Transmission System Development	Hydro One Networks, Inc. 483 Bay St 15th Floor, North Tower Toronto, Ontario M5G 2P5	416-345-5029 bing.young@ HydroOne.com
<b>State Government</b>	Parveen Baig Utilities Regulation Engineer	Iowa Utilities Board 1375 East Court Des Moines, Iowa 50319	(515) 725-7302 parveen.baig@ iub.state.ia.us
<b>Investor Owned Utility</b>	Gary T Brownfield Supervising Engineer, Transmission Planning	Ameren Services 1901 Chouteau Avenue MC 691 Saint Louis, Missouri 63166-6149	(314) 554-2556 (314) 554-3268 Fx gbrownfield@ ameren.com
<b>Investor Owned Utility</b>	Katy Onnen Sr. Engineer, Transmission Planning	Kansas City Power & Light Co. 1444 nw foxboro rd blue springs, Missouri 64015	816-654-1373 katy.onnen@ kcpl.com
<b>ISO/RTO</b>	Jeff Billo Manager of Mid-Term Planning	ERCOT 2705 West Lake Drive Taylor, Texas 76574	(512) 248-6334 jbillo@ercot.com
<b>ISO/RTO</b>	Mark Sims Manager, Transmission Planning	PJM Interconnection, L.L.C.	610-666-4678 Mark.Sims@ pjm.com

<b>Large end-use electricity</b>	John Hughes President & CEO	Electricity Consumers Resource Council 1101 K Street NW Suite 700 Washington, D.C. 20005	202-682-1390 202-289-6370 Fx jhughes@ elcon.org
<b>Merchant Electricity Generator</b>	Robert A. Ramaekers Site Development Coordinator	Tenaska, Inc. 1044 North 115th Street Suite 400 Omaha, Nebraska 68154	(402) 691-9583 rramaekers@ tenaska.com
<b>Small End-Use Electricity Customer</b>	Darryl Lawrence Attorney	Pennsylvania Office of Consumer Advocate 555 Walnut Street 5th Floor Harrisburg, Pennsylvania 17101-1923	7177835048 dlawrence@ paoca.org
<b>Small End-Use Electricity Customer</b>	Herb Schrayshuen	4408 Jack-in-the-Pulpit Circle Manlius, New York 13104	315-439-1390 schrayh@ hotmail.com
<b>State/Municipal</b>	Arthur W Iler	American Municipal Power 1111 Schrock Rd. Ste. 100 Columbus, Ohio 43229	6145400857 ailer@ amppartners.org
<b>State/Municipal</b>	Andrew Wade Tudor	Municipal Energy Agency of Nebraska 8377 Glynoaks Drive Lincoln, Nebraska 68516	402-474-4759 402-474-0473 Fx atudor@ nmppenergy.org
<b>Transmission Dependent Utility</b>	Carl J Turner	Florida Municipal Power Agency 8553 Commodity Circle Orlando, Florida 32819	(407) 648-3511 carl.turner@ fmpa.com
<b>Transmission Dependent Utility</b>	Brian Zavesky Senior Transmission Engineer	Missouri River Energy Services	(605) 330-6986 (605) 978-9396 Fx brianz@ mrenergy.com
<b>Eastern Canada</b>	Jesus M. Sierra Group Manager	Federal Energy Regulatory Commission 888 First Street NE Washington, D.C. 20426	(202) 502-8479 (202) 219-2836 Fx nano.sierra@ ferc.gov

## Planning Committee Executive Committee

### Vice Chairman

Dave Weaver Director, Transmission Operations & Planning	Exelon Corporation 2301 Market Street N2-6 Philadelphia, Pennsylvania 19103	(215) 841-5060 (215) 841-6319 Fx david.weaver@ peco-energy.com
Brian Evans-Mongeon President and CEO	Utility Services, Inc. 1080 Waterbury-Stoew Road Suite 2 Waterbury, Vermont 05676	(802) 552-4022 (866) 214-8632 Fx brian.evans- mongeon@ utilitysvcs.com
Elliott J Nethercutt Senior Technical Advisor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8089 (202) 744-8044 Fx elliott.nethercutt@ nerc.net
Phill Fedora Assistant Vice President, Reliability Services	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-4909 (212) 302-2782 Fx pfedora@npcc.org
Russell Schussler Vice President, System Planning	Georgia Transmission Corporation 2100 East Exchange Place Tucker, Georgia 30084	770.270.7565 770.270.7450 Fx russell.schussler@ gatrans.com
Edward Scott Director	Duke Energy - Florida 6565 38th Avenue N. St. Petersburg, Florida 33710	(727) 384-7500 (727) 384-7994 Fx edward.scott2@ duke-energy.com
Thomas H Coleman Director of Reliability Assessments	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 thomas.coleman@ nerc.net
Robert W Cummings Senior Director of Engineering and Reliability Initiatives	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9717 (404) 446-2595 Fx bob.cummings@ nerc.net
Michelle Marx Senior Program Specialist, Reliability Assessment and System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx michelle.marx@ nerc.net
John Moura Director of Reliability Assessment and System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (609) 610-6044 Fx john.moura@ nerc.net

Pooja Shah  
Senior Engineer

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-9621  
(404) 446-2595 Fx  
pooja.shah@  
nerc.net

David Till  
Sr. Manager, Performance  
Analysis

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx  
david.till@  
nerc.net

Ganesh Velummylum  
Senior Manager of System  
Analysis

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx  
Ganesh.Velummylum  
@  
nerc.net

## Regional Entity Executives

<b>Chairman</b>	Scott Henry President and CEO	SERC Reliability Corporation 3701 Arco Corporate Drive Suite 300 Charlotte, North Carolina 28273	(704) 940-8202 (704) 357-7372 Fx shenry@serc1.org
<b>Vice Chairman</b>	Lane Lanford President and CEO	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4940 lane.lanford@ texasre.org
	Stacy Dochoda President and CEO	Florida Reliability Coordinating Council, Inc 3000 Bayport Drive Suite 600 Tampa, Florida 33607	813 207 7960 sdochoda@ frcc.com
<b>MRO</b>	Daniel P. Skaar President	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1760 (651) 855-1712 Fx dp.skaar@ midwestreliability.org
<b>NPCC</b>	Edward A Schwerdt President and CEO	Northeast Power Coordinating Council 1040 Avenue of the Americas 10th Floor New York, New York 10018	(212) 840-1070 (212) 302-2782 Fx eschwerdt@ npcc.org
<b>RFC</b>	Timothy R Gallagher President and CEO	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(216) 503-0680 (330) 456-5390 Fx tim.gallagher@ rfirst.org
<b>SPP</b>	Ronald W. Ciesiel General Manager	Southwest Power Pool RE 201 Worthen Drive Little Rock, Arkansas 72223	(501) 614-3265 (501) 482-2025 Fx rciesiel.re@ spp.org
<b>WECC</b>	Jim Robb CEO	Western Electricity Coordinating Council 155 North 400 West Suite 200 Salt Lake City, Utah 84103	(801) 819-7665 jrobb@wecc.biz

## Reliability Assessment Subcommittee

<b>Chairman</b>	Phill Fedora Assistant Vice President, Reliability Services	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-4909 (212) 302-2782 Fx pfedora@npcc.org
<b>Vice Chairman</b>	Tim Fryfogle	ReliabilityFirst 3 Summit Park Drive Suite 600 Cleveland, Ohio 44131	21615030616 tim.fryfogle@ rfirst.org
	Sennoun Abdelhakim	Hydro-Quebec	(514) 289-2211 Sennoun.Abdelhakim @ hydro.qc.ca
<b>MRO Representative</b>	Salva R. Andiappan Manager- Modeling and Reliability Assessments	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1719 (651) 855-1712 Fx
<b>MRO Representative</b>	Salva R. Andiappan Manager- Modeling and Reliability Assessments	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1719 (651) 855-1712 Fx sr.andiappan@ midwestreliability.or g
	Richard Becker Project Planning Engineer	Florida Reliability Coordinating Council 3000 Bayport Drive Suite 600 Tampa, Florida 33607	(813) 207-7967 rbecker@frcc.com
	Layne Brown Manager, Reliability Assessments	Western Electricity Coordinating Council 155 North 400 West, Suite 200 Salt Lake City, Utah 84103	(801) 582-0353 (801) 582-3981 Fx lbrown@wecc.biz
	Michael Courchesne	ISO New England, Inc.	(413) 535-4346 mcourchesne@ iso-ne.com
	Lewis De La Rosa	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4984 lewis.delarosa@ texasre.org
	Ryan Egerdahl Manager, Long Term Power Planning	Bonneville Power Administration 905 NE 11th Avenue - PGSD-S Portland, Oregon 98208	(503) 230.4732 rjegerdahl@ bpa.gov
<b>Data Coordinator</b>	Teresa Glaze Data Analyst	SERC Reliability Corporation 2815 Coliseum Centre Drive Suite 500 Charlotte, North Carolina 28217	(704) 840-5600 (704) 357-7914 Fx tglaze@serc1.org
	Chris Haley Engineer Associate	Southwest Power Pool, Inc. 201 Worthen Drive Little Rock, Arkansas 72223	501-614-3583 chaley@spp.org



<b>OC Representative</b>	Jeffrey L Harrison Manager System Operations	Associated Electric Cooperative, Inc. 2814 S. Goldern P.O. Box 754 Springfield, Missouri 65801	(417) 885-9316 jharrison@ aeci.org
	Matt Hart	Southern Company 600 North 18th St Birmingham, Alabama 35291	2052577623 rmhart@ southernco.com
	Srinivas Kappagantula Senior Analyst	PJM Interconnection, L.L.C. 955 Jefferson Ave Norristown, Pennsylvania 19403	610-666-4449 Srinivas.Kappagantula@ pjm.com
<b>OC Representative</b>	Richard K Kinas Manager of Standards Compliance	Orlando Utilities Commission 6113 Pershing Avenue Orlando, Florida 32822	rkinas@ouc.com
	Mark J. Kuras, P.E. Senior Lead Engineer	PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, Pennsylvania 19403	(610) 666-8924 (610) 728-4881 Fx mark.kuras@ pjm.com
	Denise Lam	Florida Reliability Coordinating Council 3000 Bayport Drive Suite 6000 Tampa, Florida 33607	813-321-6289 dlam@frcc.com
<b>WECC</b>	James Leigh-Kendall Manager, Reliability Compliance and Coordination	Sacramento Municipal Utility District 6002 S Street, B303 Sacramento, California 95852	(916) 732-5357 (916) 732-7527 Fx jleighk@smud.org
	John Reinhart Engineer	MISO 2985 Ames Crossing Rd Eagan, Minnesota 55121	651-632-8428 jreinhart@ misoenergy.org
	Helve Saarela Senior Engineer	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040	413-540-4211 (413) 540-4203 Fx hsaarela@ iso-ne.com
	Travis Tate	SERC Reliability Corporation 3701 Arco Corporate Drive Charlotte , North Carolina 28273	704 414 5266 ttate@serc1.org
	Rob Vance Power System Engineer	NB Power Corporation 510-C Brookside Drive Fredericton, New Brunswick E3A 8V2	(506) 458-3922 rob.vance@ nbso.ca
	Vithy Vithyananthan Senior Engineer	Independent Electricity System Operator P.O. Box 1 Toronto, Ontario M5G 2K4	(905) 855-6307 (905) 855-6372 Fx vithy.vithyananthan@ ieso.ca
	Alan C Wahlstrom	201 Worthen Drive Littlerock, Arkansas 72223	(501) 688-1624 (501)351-3410 Fx awahlstrom.re@ spp.org

	Peter Warnken Manager, Resource Adequacy	ERCOT	512-248-6705 pete.warnken@ercot.com
	Ryan Westphal		rwestphal@misoenergy.org
	Peter Wong Manager, Resource Adequacy	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040	413-535-4172 413-540-4203 Fx pwong@iso-ne.com
<b>SERC</b>	Hubert C Young Manager of Transmission Planning	South Carolina Electric & Gas Co. 220 Operations Way MC J37 Cayce, South Carolina 29033	(803) 217-2030 (803) 933-7264 Fx cyoung@scana.com
	Josh Collins Reliability Engineer	SERC Reliability Corporation 3701 Arco Corporate Dr Suite 300 Charlotte, North Carolina 28273	704-494-7777 jlcollins@serc1.org
<b>Observer</b>	William B Kunkel Senior Engineer	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1717 Fx wb.kunkel@midwestreliability.org
	Paul D Kure Senior Consultant, Resources	ReliabilityFirst 3 SUMMIT PARK DRIVE Suite 600 CLEVELAND, Ohio 44131	(216) 503-0611 (330) 456-3648 Fx paul.kure@rfirst.org
	Anna Lafoyiannis Engineer/Technical Officer	Independent Electricity System Operator Station A, Box 4474 Toronto, Ontario M5W 4E5	905-855-6170
	Vince Ordax Director of Planning	Florida Reliability Coordinating Council 3000 Bayport Drive Suite 600 Tampa, Florida 33607	(813) 207-7988 (813) 289-5646 Fx vordax@frcc.com
	Paul A Roman Manager, Operations Planning	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-4905 (212) 302-2782 Fx proman@npcc.org
	Brad Woods	Texas Reliability Entity, Inc. 805 Las Cimas Parkway, Suite 200 Austin, Texas 78746	512-583-4957 brad.woods@texasre.org
	Noha Abdel-Karim Senior Engineer Reliability Assessment	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx noha.karim@nerc.net
	Mohammed Ahmed, P.E. Manager, East Tranining Planning	AEP 700 Morrison Road Gahanna, Ohio 43230	614 552 1669 (614) 552-1676 Fx mahmed@aep.com

David Calderon Engineer, Reliability Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx david.calderon@ nerc.net
Thomas H Coleman Director of Reliability Assessments	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 thomas.coleman@ nerc.net
John Moura Director of Reliability Assessment and System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (609) 610-6044 Fx john.moura@ nerc.net
Amir Najafzadeh Senior Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Amir.Najafzadeh@ nerc.net
Elliott J Nethercutt Senior Technical Advisor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8089 (202) 744-8044 Fx elliott.nethercutt@ nerc.net
Pooja Shah Senior Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9621 (404) 446-2595 Fx pooja.shah@ nerc.net

## Reliability Issues Steering Committee

<b>Chair At Large</b>	Daniel Froetscher Senior Vice President, Transmission, Distribution, and Customers	Arizona Public Service Co. Mail Station 9086 400 North 5th Street Phoenix, Arizona 85004	(602) 250-3331 Daniel.Froetscher@ aps.com
<b>Secretary</b>	Margaret Pate Reliability Risk Control Program Liaison	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Margaret.pate@ nerc.net
	Terry Bilke	720 City Center Drive Carmel, Indiana 46082-4202	(317) 249-5463 (317) 249-5358 Fx TBilke@ misoenergy.org
	Peter Brandien Vice President - Systems Operations	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040	(413) 535-4022 (413) 535-4343 Fx pbrandien@ iso-ne.com
	Richard Burt Vice President of Risk Assessment, Mitigation and Standards	Midwest Reliability Organization ,	(651) 855-1714 rb.burt@ midwestreliability.org
	Michael Desselle Vice President - Process Integrity and Chief Administrative Officer	Southwest Power Pool, Inc. 205 Worthen Dr. Suite 140 Little Rock, Arkansas 72223	501-614-3206 501-664-9553 Fx mdesselle@ spp.org
	Brian Evans-Mongeon President and CEO	Utility Services, Inc. 1080 Waterbury-Stoew Road Suite 2 Waterbury, Vermont 05676	(802) 552-4022 (866) 214-8632 Fx brian.evans- mongeon@ utilitysvcs.com
	Raymond Gorman, Q.C. Chairman	NB Energy and Utilities Board 15 Market Square Suite 1400 P.O. Box 5001 Saint John, New Brunswick E2L 4Y9	(506) 658-2504 rgorman@nbeub.ca
	Charles King	Kansas City Power & Light Co. 1444 nw foxboro rd blue springs, Missouri 64015	Charles.King@ kcpl.com
	Caroline LeBlanc-Arseneau		cleblanc-arseneau@ nbeub.ca
	Lloyd A Linke Vice President of Operations for UGPR	Western Area Power Administration 1330 41st Street PO Box 790 Watertown, South Dakota 57201	605 882-7500 (605)-882-7409 Fx lloyd@wapa.gov

<b>Member: MRC</b>	Jason L Marshall, P.E. Vice President of Corporate and Regulatory Affairs	ACES 4140 West 99th Street Carmel, Indiana 46032	(317) 344-7204 jmarshall@ acespower.com
	Patricia E Metro Manager, Transmission and Reliability Standards	National Rural Electric Cooperative Association 4301 Wilson Blvd. Mail Code EP11-253 Arlington, Virginia 22203	(703) 907-5817 (571) 334-8890 Fx patti.metro@ nreca.coop
	Nathan Mitchell Director of Electric Reliability Standards and Compliance	American Public Power Association 2451 Crystal Drive Suite 1000 Arlington, Virginia 22202	(202) 467-2925 nmitchell@ publicpower.org
<b>Member: SC</b>	Brian Murphy Manager, NERC Reliability Standards	NextEra Energy 4200 W Flagler Street Miami, Florida 31334	305-442-5132 Brian.J.Murphy@ fpl.com
	David Osburn General Manager	Oklahoma Municipal Power Authority ,	405-359-2501 405-359-1071 Fx dosburn@ompa.com
	V. Nelson Peeler Vice President, Transmission System Operations	Duke Energy 526 S. Church Street Mail Code: EC3ZJ Charlotte, North Carolina 28202	704-382-3851 704-382-8375 Fx nelson.peeler@ duke-energy.com
	Marion Roberts Administrative Assistant to Peter Brandien	ISO New England One Sullivan Road Holyoke, Massachusetts 01040	(413) 535-4305 mroberts@ iso-ne.com
	Gloria SantaCruz	Arizona Public Service Co. Saguaro Generating Plant P.O. Box 53999, Mail Station 4552 Phoenix, Arizona 85072-3999	Gloria.SantaCruz@ aps.com
	Chris Shepard	NAES Corporation	Chris.Shepherd@ naes.com
	Brian Slocum VP, Operations	ITC Transmission ,	248-946-3000 bslocum@ itctransco.com
	Patsy Townsend	Duke Energy	Patsy.townsend@ duke-energy.com
	Dave Weaver Director, Transmission Operations & Planning	Exelon Corporation 2301 Market Street N2-6 Philadelphia, Pennsylvania 19103	(215) 841-5060 (215) 841-6319 Fx david.weaver@ peco-energy.com
	Carolyn Hart		chart@ompa.com
	Lori Lane	Kansas City Power & Light Co. 1444 nw foxboro rd blue springs, Missouri 64015	Lori.lane@ kcpl.com

Erika Robinson	ITC Transmission	erobinson@ Itctransco.com
Soo J Kim Manager of Reliability	North American Electric Reliability Corporation 3353 Peachtree Road, NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx soo.jin.kim@ nerc.net
Andrea Koch Senior Director, ERO Enterprise Operations and Strategic Planning	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Andrea.Koch@ nerc.net
Mark G Lauby Vice President and Chief Reliability Officer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx mark.lauby@ nerc.net
James Merlo Senior Director of Reliability Risk Management	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx james.merlo@ nerc.net

## Resources Subcommittee

<b>Chair</b>	John T Blalock Reliability Specialist	SCE&G 601 Old Taylor Rd MCJ42 Cayce, South Carolina 29033	803 217-2040 803 206-8984 Fx jblalock@ scana.com
<b>Vice Chair</b>	John Tolo Senior Director, System Control and Reliability and Planning	Tucson Electric Power Co. 3950 E Irvington Rd Tucson, Arizona 85714	(520) 745-7106 (520) 571-4066 Fx jtolo@tep.com
<b>ERCOT</b>	Sydney L Niemeyer Control System Specialist	NRG Texas LP 1201 Fannin Suite 2132 Houston, Texas 77002	(713) 537-3715 (713) 537-3750 Fx Sydney.niemeyer@ nrg.com
<b>MRO</b>	William B Kunkel Senior Engineer	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1717 Fx wb.kunkel@ midwestreliability.org
<b>NPCC</b>	Bill Henson	One Sullivan Rd Holyoke, Massachusetts 01040	413-540-4716 whenson@ iso-ne.com
<b>WECC</b>	Tony M Nguyen System Control Manager	BC Hydro Fraser Valley Office 333 Dunsmuir Street Vancouver, British Columbia V6B 5R3	6044551780 tony.nguyen@ bchydro.com
	Don E Badley	7505 N.E. Ambassador Place Suite R Portland, Oregon 97220	(503) 445-1076 (503) 445-1070 Fx don.badley@ nwpp.org
	Gerald D Beckerle Senior Transmission Operations Supervisor	Ameren Services 1901 Chouteau Avenue, MC 630 St. Louis, Missouri 63166	(314)-554-6413 gbeckerle@ ameren.com
<b>MRO</b>	Terry Bilke	720 City Center Drive Carmel, Indiana 46082-4202	(317) 249-5463 (317) 249-5358 Fx TBilke@ misoenergy.org
	Casey Cathey	Southwest Power Pool, Inc. 415 North McKinley Suite 140 Little Rock, Arkansas 72205	ccathey@spp.org
	James D Deerman Manager - Real Time Operations	Southern Company 600 18th Street N Birmingham, Alabama 35203	205-257-7649 (205) 532-1280 Fx jddeerma@ southernco.com
	Antonio Franco	1331 Lamar St Houston, Texas 77010	713-332-2912 antoniof@ grid4ce.net

	Tabitha J Hibbard-Hernandez Manager Interchange Administration	MISO 720 City Center Drive Carmel, Indiana 46032	(317) 249-5106 thernandez@ misoenergy.org
	Bob Klueber Technical Manager – Balancing Authority and Dispatch Operations	MISO 701 City Center Drive Carmel, Indiana 46032	(317) 432-9057 bklueber@ misoenergy.org
<b>NPCC</b>	Francis Monette Engineer System Scheduling and Operations	Hydro-Quebec TransEnergie Complexe Desjardins, East Tower, Basilaire 1 P.O. 10000, Pl Desjardins Montreal, Quebec H5B 1H7	514-289-2211 ext 2242 Monette.Francis@ hydro.qc.ca
	Tom V Pruitt	526 South Church Street P O Box 1006 - EC02B Charlotte, North Carolina 28202	704-382-4676 (704) 382-3230 Fx tom.pruitt@ duke-energy.com
	Tim Reynolds Compliance Engineer - Enforcement	Western Electricity Coordinating Council 155 North 400 West, Suite 200 SLC, Utah 84103	8018836883 8013002493 Fx treynolds@ wecc.biz
	Allen D Schriver PGD General Manager of Compliance	NextEra Energy 700 Universe Boulevard JSA/JB Juno Beach, Florida 33408	(561) 691-2344 (561) 691- 2606 Fx allen.schriver@ NextEraEnergy.com
	SANDIP R SHARMA	ERCOT ,	5122484298 SSharma@ ercot.com
	Miguel Yanes Manager, Operations Engineering	Florida Power & Light Co. 4200 West Flagler Street Room 3400 Coral Gables, Florida 33134	305-442-5250 miguel.yanes@ fpl.com
<b>NPCC</b>	Michael Potishnak	Spriteland Energy 244 Stebbins Street Belchertown, Massachusetts 01007	(413) 374-9680 mpot@charter.net
	Frank Carrera	Electric Power Group 201 S. Lake Ave Suite 400 Pasadena, California 91101	(626) 685-2015 carrera@ electricpowergroup.c om
	Danielle Croop Engineer, Performance Compliance	PJM Interconnection, L.L.C.	610-666-4402 danielle.croop@ pjm.com
	David Kimmel	PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, Pennsylvania 19403	610-666-4435 David.Kimmel@ pjm.com
<b>Observer</b>	Eddy Lim Senior Electrical Engineer	Federal Energy Regulatory Commission 888 First Street NE 92-79 Washington, D.C. 20426	(202) 502-6713 Eddy.Lim@ ferc.gov



<b>Observer</b>	Carlos Martinez CERTS Researcher	Advanced Systems Researchers 190 Arroyo Terrace #108 Pasadena, California 91103	9099819307 (909) 946-0996 Fx cmartinez@ asresearchers.com
<b>Observer</b>	Robert W Cummings Senior Director of Engineering and Reliability Initiatives	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9717 (404) 446-2595 Fx bob.cummings@ nerc.net
	Svetlana Ekisheva Principal Statistician	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx svetlana.ekisheva@ nerc.net
	Brad Gordon Manager of Reliability Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(470) 728-0790 (404) 446-2595 Fx brad.gordon@ nerc.net
<b>NERC Staff</b>	Larry J Kezele Senior Manager of Operations	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(609) 273-0839 (404) 446-2595 Fx larry.kezele@ nerc.net
	Ryan Quint Senior Engineer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3015 (202) 644-8099 Fx ryan.quint@ nerc.net
	Pooja Shah Senior Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9621 (404) 446-2595 Fx pooja.shah@ nerc.net

## Standards Committee

### Chairman

<p>Brian Murphy Manager, NERC Reliability Standards</p>	<p>NextEra Energy 4200 W Flagler Street Miami, Florida 31334</p>	<p>305-442-5132 Brian.J.Murphy@fpl.com</p>
<p>Robert Blohm</p>	<p>Keen Resources Ltd. 68 Walker Avenue Toronto, Ontario M4V 1G2</p>	<p>514 295 6301 (208) 485-4056 Fx rb112@columbia.edu</p>
<p>John Bussman Manager, Reliability Compliance</p>	<p>Associated Electric Cooperative, Inc. PO Box 754 Springfield , Missouri 65712</p>	<p>4178859216 4178915499 Fx jbussman@aeci.org</p>
<p>Randy Crissman Vice President, Technical Compliance Operations</p>	<p>New York Power Authority 123 Main Street White Plains, New York 10601</p>	<p>(914) 681-6471 Randy.Crissman@nypa.gov</p>
<p>Michelle D'Antuono Manager, Energy</p>	<p>Occidental Energy Ventures Corp 5 Greenway Plaza, Suite 110 Houston, Texas 77001</p>	<p>(713) 215-7064 (713) 215-7571 Fx michelle_dantuono@oxy.com</p>
<p>Andrew Gallo Director, Reliability Compliance</p>	<p>Austin Energy 721 Barton Springs Rd Austin, Texas 78704</p>	<p>512-322-6424 andrew.gallo@austinenergy.com</p>
<p>Chris Gowder Regulatory Compliance Specialist</p>	<p>Florida Municipal Power Agency</p>	<p>(321) 239-1022 chris.gowder@fmpa.com</p>
<p>Brenda Hampton Senior Project Manager, Regulatory Affairs</p>	<p>Luminant Energy 1005 Congress Ave, Suite 750 Austin, Texas 78701</p>	<p>5123496416 (512)-349-6415 Fx brenda.hampton@energyfutureholdings.com</p>
<p>Mark Harris Electrical Engineer</p>	<p>Public Utilities Commission of Nevada 1150 E. William Street, RMA Carson City, Nevada 89701</p>	<p>(775) 687-6065 mpharris@puc.nv.gov</p>
<p>David L Kiguel</p>	<p>365A Roehampton Ave. Toronto, Ontario M4P 1S3</p>	<p>416-487-2145 David.Kiguel@Sympatico.ca</p>
<p>Gary Kruempel</p>	<p>MidAmerican Energy Co. 4299 NW Urbandale Drive P.O. Box 657 Des Moines, Iowa 50303</p>	<p>(515) 281-2510 gekruempel@midamerican.com</p>
<p>Barry R. Lawson Associate Director, Power Delivery &amp; Reliability</p>	<p>National Rural Electric Cooperative Association 4301 Wilson Boulevard Mailcode GR11-253 Arlington, Virginia 22203</p>	<p>(703) 907-5781 (703) 907-5517 Fx barry.lawson@nreca.coop</p>

	Laura Lee Reliability Standards Development Manager	Duke Energy 526 South Church Street Charlotte, North Carolina 28202	(704) 382-3625 laura.lee@ duke-energy.com
	P.S. (Ben) Li President	Ben Li Associates, Inc. 37 Goldring Crescent Markham, Ontario L6C 1Y6	(647) 388-1498 (905) 887-2235 Fx ben@benli.ca
	Marion Lucas President APMLLC, Chief Compliance Officer APGI	Alcoa, Inc. 300 North Hall Road MS-#T1521 Alcoa, Tennessee 37701	(865) 977-3570 (865) 977-2346 Fx marion.lucas@ alcoa.com
<b>Segment 7-2010-11</b>	Frank R. McElvain Consulting Manager	Siemens Energy, Inc. 1350 Shorebird Way Mountain View, California 94043-1338	(650) 694-5096 (919) 365-1356 Fx frank.mcelvain@ siemens.com
	Scott Miller Manager Regulatory Policy	MEAG Power ,	smiller@ meagpower.org
	Colt Norrish	PacifiCorp 825 NE Multnomah Suite 1800 Portland, Oregon 97080	503-813-5545 Colt.Norrish@ PacifiCorp.com
	Lou Oberski Managing Director Electric Market Policy and NERC Compliance	Dominion Resources, Inc. 120 Tredegar Street Pumphouse 1st Floor Richmond, Virginia 23219	805-819-2837 Lou.oberski@ dom.com
<b>Segment 10-2011-12</b>	Steven L. Rueckert Director of Standards	Western Electricity Coordinating Council 155 North 400 West Suite 200 Salt Lake City, Utah 84103	(801) 883-6878 (801) 582-3918 Fx steve@wecc.biz
	Jason Woodruff Electrical Engineer	Public Utilities Commission of Nevada 1150 E. William Street Carson City, Nevada 89701	(775) 684-6133 jwoodruff@ puc.nv.gov
	Charles H. Yeung Executive Director, Interregional Affairs	Southwest Power Pool, Inc. 415 N. McKinley Suite 140 Little Rock, Arkansas 72205-3020	(832) 724-6142 cyeung@spp.org
	Guy V. Zito Assistant Vice President of Standards	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-1070 (212) 302-2782 Fx gzito@npcc.org
	Valerie Agnew Senior Director of Reliability Assurance	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx valerie.agnew@ nerc.net

Sean Bodkin Standards Developer	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx Sean.Bodkin@ nerc.net
Sean Cavote Manager of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx sean.cavote@ nerc.net
Howard L. Gugel Director of Standards	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx howard.gugel@ nerc.net
Marisa Hecht Senior Advisor, Compliance Assurance	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600 - North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx marisa.hecht@ nerc.net
Laura Hussey Director, Canadian Affairs	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20050	(202) 400-3000 (202) 644-8099 Fx laura.hussey@ nerc.net
Linda A Jenkins Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9777 (404) 446-2595 Fx Linda.Jenkins@ nerc.net
Nina Johnston Senior Counsel	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx nina.johnston@ nerc.net
Jordan Mallory Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx jordan.mallory@ nerc.net
Al McMeekin, P.E. Senior Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx al.mcmeekin@ nerc.net
Kimberly Mielcarek Senior Director, Communications	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx kimberly.mielcarek@ nerc.net

Steven Noess Director of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600 Atlanta, Georgia 30326	404-446-9691 (404) 446-2595 Fx steven.noess@ nerc.net
Elsa A Prince Manager of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx elsa.prince@ nerc.net
Nasheema Santos Standards Development Administrator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx nasheema.santos@ nerc.net
Ryan A Stewart Manager of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx ryan.stewart@ nerc.net
Andrew C Wills Associate Counsel	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx andrew.wills@ nerc.net

## Synchronized Measurement Subcommittee

James Kleitsch System Operations Engineer	American Transmission Company, LLC ,	(608) 877-8102 JKleitsch@ atllc.com
Aftab Alam	California ISO 250 Outcropping Way Folsom, California 95630	aalam@caiso.com
Jeffery E. Dagle Senior Electrical Engineer	Pacific Northwest National Laboratory P.O. Box 9999/MS K5-20 Richland, Washington 99352	(509) 375-3629 (509) 375-3614 Fx jeff.dagle@ pnl.gov
Alireza Ghassemian	Federal Energy Regulatory Commission 825 North Capital Street, N.E. Washington, D.C. 20426	202-502-8634 Alireza.Ghassemian @ ferc.gov
Andrew Arana Senior Engineer	Florida Power & Light Co. 4200 W Flagler St. Miami, Florida 33134	(305) 442-5705 Andrew.arana@ fpl.com
Bruno Bachiega	OSI Soft	402-570-1406 bbachiega@ osisoft.com
Bahram Barazesh	Federal Energy Regulatory Commission ,	202-502-8349 Bahram.Barazesh@ ferc.gov
Lisa M. Beard	University of Tennessee (The) 1520 Middle Dr. 516 Min H. Kao Building Knoxville, Tennessee 37996	(865) 974-8655 Lbeard10@utk.edu
Jared Bestebreur	Schweitzer Engineering Laboratories, Inc.	(509) 336-2511 jared_bestebreur@ selinc.com
Clifton Black	Southern Company Services, Inc. 64 Perimeter Center East Atlanta, Georgia 30346	(205) 257-6184 (205) 257-5367 Fx crblack@ southernco.com
Carlos Casablanca	AEP 1 Riverside Plaza - 23rd Floor Columbus, Ohio 43215	cjasablanca@ aep.com
Virgilio Centeno	Virginia Polytechnic Institute University 363 Smyth Hall Crop & Soil Environ. Science Department Blacksburg, Virginia 24060	virgilio@vt.edu

Kevin Chen	Electric Power Group 201 South Lake Avenue Suite 400 Pasadena, California 91101	chen@ electricpowergroup.c om
Joe Chow	Rensselaer Polytechnic Institute Communications Center C.R. Room 214 Troy, New York 12180-3590	chowj@rpi.edu
Mehmet Cintuglu	Florida International University	mcint015@fiu.edu
Michael L Cohen NIPC/IDSU Staff	MITRE Corp. 7515 Colshire Drive McLean, Virginia 22102	703-983-7372 (202) 324-9197 Fx mlc@mitre.org
Jose Conto Principal, Dynamic Studies	Electric Reliability Council of Texas, Inc. 2705 West Lake Drive Taylor, Texas 76574-2136	(512) 248-3141 jconto@ercot.com
Bilgehan Donmez	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040-2841	413-540-4612 BDonmez@ iso-ne.com
Matt Donnelly	Montana Tech 1300 W. Park Street Butte, Montana 59701	(406) 496-4846 m.k.donnelly@ ieee.org
Po-Bun Ear	Hydro-Quebec	(514) 246-0933 Ear.Po-Bun@ hydro.qc.ca
Pavel Etingov	Pacific Northwest National Laboratory PO Box 999 K8-11 Richland, Washington 99352	Pavel.Etingov@ pnnl.gov
Herb Falk	SISCO	586-254-0020 herb@ sisconet.com
Aaron Fansler	OTB Security	303-909-8669 afansler@ otbsec.com
Evangelos Farantatos	Electric Power Research Institute	650-855-2214 efarantatos@ epri.com
Bruce Fardanesh	New York Power Authority 123 Main Street, Mail Stop 10L White Plains, New York 10601	914-287-3779 bruce.fardanesh@ nypa.gov
Tony Faris	Bonneville Power Administration 905 NE 11th Avenue - PGSD-S Portland, Oregon 98208	ajfaris@bpa.gov

Tim N. Fritch	Tennessee Valley Authority 1101 Market Street Chattanooga, Tennessee 37402	423-751-7093 tnfritch@tva.gov
Floyd Galvan	Entergy Services, Inc. 1001 Virgil Street, L-VIR-668 Gretna, Louisiana 70053	(504) 365-3639 fgalvan@ entergy.com
Scott Ghiocel	Mitsubishi Electric Power Products, Inc.	518-225-7072 scott.ghiocel@ meppi.com
Hassan Ghoudjehbklou Principal Engineer	San Diego Gas & Electric 5160 groveland dr san diego, California 92114	hbaklou@ semprautilities.com
Jay Giri Director	Alstom Grid Inc. ,	425-822-6800 jay.giri@ alstom.com
Allen Goldstein	National Institute of Standards & Technology Room Admin A411 Gaithersburg, Maryland 20899	301-975-2101 allen.goldstein@ nist.gov
Bei Gou	Smart Electric Grid, LLC	682-478-8897 bgou@ smart-elecgrid.com
Ian S Grant Senior Manager, NERC Planning Coordinator	Tennessee Valley Authority 1101 Market Street MR-5G-C Chattanooga, Tennessee 37402-2801	(423) 751-8721 isgrant@tva.gov
Patrick Gravois	ERCOT	Patrick.Gravois@ ercot.com
Qiao Guo	National Instruments	qiao.guo@ni.com
Randy Horton, Ph.D., P.E. Chief Engineer	Southern Company Services, Inc. 42 Inverness Parkway Birmingham, Alabama 35242	(205) 257-6352 jrhorton@ southernco.com
Yi Hu	Quanta Technology	919-334-3042 Yhu@ Quanta- Technology.com
Shun-Hsien Huang Operations Engineer/Analyst II	Electric Reliability Council of Texas, Inc. 2705 West Lake Drive Taylor, Texas 76574	(512) 248-6665 (512) 248-3055 Fx Shun-Hsien.Huang@ ercot.com
Shauna Jensen	Portland General Electric Co. 121 S.W. Salmon Street Portland, Oregon 97204	503-464-7638 shauna.jensen@ pgn.com
Mital Kanabar	GE Digital Energy	905-927-5148 mital.kanabar@ ge.com



Prashant Kansal	AEP 1 Riverside Plaza - 23rd Floor Columbus, Ohio 43215	pkansal@aep.com
Gary Kobet Project Specialist System Protection	Tennessee Valley Authority 1101 Market Street MR 1B Chattanooga, Tennessee 37402-2801	(423) 751-4104 glkobet@tva.gov
Dmitry Kosterev	Bonneville Power Administration 7600 NE 41st Street, Suite 150 Vancouver, Washington 98662	(360) 619-6836 dnkosterev@ bpa.gov
Pradeep Kumar	National Institute of Technology Kurukshetra, India	pradeepkumar0802@ gmail.com
Yilu Liu Professor	Virginia Tech 340 Whittemore Hall Blacksburg, Virginia 24060	(540) 231-3393 liu@utk.edu
Jing Liu	PJM Interconnection, L.L.C. 800 Cabin Hill Dr. Greensburg, Pennsylvania 15601	610-666-4326 jing.liu@pjm.com
Jacqueline Llavono-Badillo	AEP 1 Riverside Plaza - 23rd Floor Columbus, Ohio 43215	jsllavona-badillo@ aep.com
Naim Logic	Salt River Project P.O. Box 52025 Phoenix, Arizona 85072-2025	602-236-3838 naim.logic@ srpnet.com
Michael R Lombardi Manager System Studies	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	212-840-1070 212-302-2782 Fx mlombardi@ npcc.org
Xiaochuan Luo Principal Analyst, Business Architecture & Technology	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040	(413) 540-4236 xluo@iso-ne.com
Ralph Mackiewicz	SISCO	ralph@ sisconet.com
Ron Markham	Pacific Gas and Electric Company MailCode B15A, Room 1562 77 Beale Street San Francisco, California 94105	415-973-7689 rrmc@pge.com
Ken Martin	Electric Power Group 201 South Lake Avenue Suite 400 Pasadena, California 91101	martin@ electricpowergroup.c om
Jim McNierney	New York Independent System Operator	JMcNierney@ nyiso.com

keith mitchell	701 city center drive Carmel, Indiana 46082-4202	(317) 249-5476 kmitchell@ misoenergy.org
Saurav Mohapatra	Power World Corporation 2001 South First Street Suite 230 Champaign, Illinois 61820	saurav@ powerworld.com
Brett Murphy	RTI	650-346-9307 brett@rti.com
George Nail	Public Service Company of New Mexico ,	505-241-2574 george.nail@ pnm.com
Krish Narendra	ERLPhase Power Technologies Ltd	204-477-0591 knarendra@ erlphase.com
Sarma Nuthalapati	Electric Reliability Council of Texas, Inc. 2705 West Lake Drive Taylor, Texas 76574	512-248-4558 sarma.nuthalapati@ ercot.com
Gurudatha Pai	Alstom Grid Inc.	425-250-2790 gurudatha.pai@ alstom.com
Margaret Paietta	FischerBlock, Inc.	610-248-4996 margaretp@ fischerblock.com
Mulumba Panumpabi	University of Illinois at Urbana-Champaign	panumpa1@ illinois.edu
Milorad Paptic System Planning Engineer	Idaho Power Company 1221 W. Idaho Street Boise, Idaho 83702	(208) 388-2343 (208) 388-6647 Fx mpapic@ idahopower.com
Manu Parashar	Alstom Grid Inc.	manu.parashar@ alstom.com
Jeff Parker	Southwest Power Pool, Inc. 415 North McKinley Suite 140 Little Rock, Arkansas 72205	jparker@spp.org
Tariq Rahman Principal Engineer	San Diego Gas & Electric 5160 groveland dr san diego, California 92114	858-636-5547 trahman@ semprautilities.com
Sushrutha Ravish	National Instruments	sushrutha.ravish@ ni.com
Fabio Rodriguez, P.E. Principal Engineer	Duke Energy - Florida 6565 38th Avenue N. St. Petersburg, Florida 33710	(727) 384-7544 fabio.rodriguez@ duke-energy.com

Armando Salazar	Southern California Edison Company	armando.salazar@sce.com
Esteban Santos	Sharyland Utilities, L.P.	214-762-4927 esantos@huntpower.com
Joshua W Shultz	Tennessee Valley Authority 1101 Market Street Chattanooga, Tennessee 37402	jshultz@tva.gov
Alison Silverstein	19213 Luedtke Lane Pflugerville, Texas 78660	(512) 670-3497 alisonsilverstein@mac.com
Richard M Sobonya Manager - Operations Group	Federal Energy Regulatory Commission 888 First Street NE Washington, D.C. 20426	(202) 502-6534 richard.sobonya@ferc.gov
Giussepe Stanciulescu	BC Hydro	604-623-3624 Giuseppe.Stanciulescu@bchydro.com
John Sullivan Engineer	Ameren Corp. 1901 Chouteau MC 691 St. Louis, Missouri 63166	(314) 554-3833 (314) 554-3260 Fx JSullivan@ameren.com
Rui Sun	Dominion Technical Solutions, Inc. 2400 Grayland Ave Richmond, Virginia 23220	804-257-4978 804-363-8554 Fx Rui.Sun@dom.com
Jeff Sundin Manager Transmission Ops	APS 2124 W. Cheryl Drive Phoenix, Arizona 85021	(602) 250-1921 (602) 284-5241 Fx jeffery.sundin@aps.com
Zaid Tashman	Space Time Insight	650-513-8560 zaid.tashman@spacetimeinsight.com
Kyle Thomas	Dominion Technical Solutions, Inc. ,	804-257-4630 kyle.thomas@dom.com
Brian Thomas	GE Energy ,	518-385-4762 brian1.thomas@ge.com
Dan Trudnowski	Montana Tech	DTrudnowski@mtech.edu
Mike Unum	GE Energy	mike.unum@ge.com
Marianna Vaiman	V&R Company, Energy System Research 11824 Darlington Avenue Suite 101 Los Angeles, California 90049	310-979-5966 marvaiman@vrenergy.com

Devin Van Zandt Software Product Manager	GE Energy Building 53, Room 315 1 River Road Schenectady, New York 12345	(518) 385-9066 devin.vanzandt@ ge.com
Mani Venkatasubramanian	Washington State University Owen Science & Engineering Library Pullman, Washington 99164-3200	mani@ eecs.wsu.edu
Song Wang	PacifiCorp 825 NE Multnomah St. Portland, Oregon 97232	503-813-5173 song.wang@ pacificorp.com
Zhenhua Wang	AEP 1 Riverside Plaza - 23rd Floor Columbus, Ohio 43215	zwang@aep.com
Tony Weekes	Manitoba Hydro 820 Taylor Avenue, Box 815 Winnipeg, Manitoba R3C 2P4	maweekes@ hydro.mb.ca
Chuck Wells	OSI Soft	cwells@ osisoft.com
Jun Wen Senior Power Systems Engineer	Southern California Edison Company 2131 Walnut Grove Ave. Rosemead, California 91770	(626) 484-9112 Jun.wen@sce.com
Austin White	OG&E Electric Services M/C ME-1 P.O. Box 321 Oklahoma City, Oklahoma 73101	whitead@oge.com
Dick Willson	Independant Consultant 12 Bayar Woods Court, N.W. Ft. Walton Beach, Florida 32548	919-637-9244 willson.dick@ gmail.com
Greg Wolfe	FischerBlock, Inc.	610-762-4162 gregw@ fischerblock.com
Zhongyu Wu	MISO	zwu@ misoenergy.org
Ran Xu EMS Network Applications Engineer	Peak Reliability 7600 NE 41st St, Suite 201 Vancouver, Washington 98662	360-713-9586 360-836-2202 Fx rxu@peakrc.com
Steve Yang Electronics Engineer	Bonneville Power Administration 905 NE 11th Avenue - PGSD-S Portland, Oregon 98208	(360) 418-2946 hyang@bpa.gov
Tao Yang		tyang@aep.com
Wesley Yeomans Vice President Operations	New York Independent System Operator 308 Northern Blvd Apt 2A Albany, New York 12204	518-356-8522 518-813-3064 Fx WYeomans@ nyiso.com

Hongming Zhang EMS Network Applications Manager	Peak Reliability	(970)-776-5562 (512)-626-5295 Fx hzhang@ peakrc.com
George Zheng	Powertech Labs, Inc. 12388 - 88th Avenue Surrey, British Columbia V3W 7R7	Gang.zheng@ powertechlabs.com
Greg Zweigle	Schweitzer Engineering Laboratories, Inc.	greg_zweigle@ selinc.com
Robert W Cummings Senior Director of Engineering and Reliability Initiatives	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9717 (404) 446-2595 Fx bob.cummings@ nerc.net
Olushola J Lutalo Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Olushola.Lutalo@ nerc.net
Michelle Marx Senior Program Specialist, Reliability Assessment and System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx michelle.marx@ nerc.net
Amir Najafzadeh Senior Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Amir.Najafzadeh@ nerc.net
Mohamed M Osman Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	404-446-2560 (404) 446-2595 Fx Mohamed.Osman@ nerc.net
Ryan Quint Senior Engineer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3015 (202) 644-8099 Fx ryan.quint@ nerc.net
Pooja Shah Senior Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9621 (404) 446-2595 Fx pooja.shah@ nerc.net

## System Analysis and Modeling Subcommittee

<b>Chairman</b>	John M Simonelli Director - Operations Support Services	ISO New England, Inc. One Sullivan Road Holyoke, Massachusetts 01040-2841	(413) 535-4157 (860) 604-0530 Fx jsimonelli@ iso-ne.com
<b>Vice Chairman</b>	Michael R Lombardi Manager System Studies	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	212-840-1070 212-302-2782 Fx mlombardi@ npcc.org
<b>Investor Owned Utility</b>	Hayk Zargaryan Power Systems Planner	Southern California Edison Company 3 Innovation Way 2nd Floor, 270D Pomona, California 91786	(909) 274-1630 (909) 274-3211 Fx hayk.zargaryan@ sce.com
<b>Correspondent</b>	Bajarang Agrawal Principal Engineer	Arizona Public Service Co. P. O. Box 53933 MS 3185 Phoenix, Arizona 85072-3933	(602) 371-6386 (602) 371-7576 Fx bajarang.agrawal@ aps.com
<b>Correspondent</b>	Anthony Alford Staff Engineer	CenterPoint Energy P.O. Box 1700 Houston, Texas 77251	(713) 207-2265 anthony.alford@ centerpointenergy.co m
<b>RE - FRCC</b>	Andrew Arana Senior Engineer	Florida Power & Light Co. 4200 W Flagler St. Miami, Florida 33134	(305) 442-5705 Andrew.arana@ fpl.com
<b>Correspondent</b>	Larry E. Brusseau Standards Manager	Midwest Reliability Organization 1970 Oakcrest Ave Suite 200 Roseville, Minnesota 55113	(651) 294-7077 (651) 485-9062 Fx le.brusseau@ mapp.org
<b>RE - SERC</b>	Mark Byrd Manager - Transmission Planning	Duke Energy Progress Energy - PEB 3 P.O. Box 1551 Raleigh, North Carolina 27602-1551	(919) 546-3321 (919) 546-3321 Fx mark.byrd@ duke-energy.com
	K. R Chakravarthi Manager, Interconnection and Special Studies	Southern Company Services, Inc. 600 North, 18th Street Bin:13N-8183 Birmingham, Alabama 35291	(205) 257-6125 (205) 257-1040 Fx krchakra@ southernco.com
	Jose Conto Principal, Dynamic Studies	Electric Reliability Council of Texas, Inc. 2705 West Lake Drive Taylor, Texas 76574-2136	(512) 248-3141 jconto@ercot.com
<b>ISO/RTO Alternate</b>	Steve Corey Manager, Transmission Planning	New York Independent System Operator 5172 Western Turnpike Altamont, New York 12009	(518) 356-6134 (518) 356-6208 Fx scorey@nyiso.com
	Enoch Davies Assistant Engineer	Western Electricity Coordinating Council 155 North 400 West, Suite 200 Salt Lake City, Utah 84103	enoch@wecc.biz

	Cody Doll Senior Engineer, Modeling	MISO 1125 Energy Park Dr. St. Paul, Minnesota 55108	651-632-8575 cdoll@ misoenergy.org
<b>Correspondent</b>	Thomas W. Green Principal Transmission Planning Engineer	Xcel Energy, Inc. 550 15th Street Suite 700 Denver, Colorado 80202-4205	(303) 571-7223 (303) 571-7877 Fx thomas.green@ xcelenergy.com
<b>ISO/RTO</b>	William Harm Senior Consultant	PJM Interconnection, L.L.C. 955 Jefferson Ave Valley Forge Corporate Center Norristown, Pennsylvania 19403-2497	(610) 666-8868 (610) 666-4286 Fx william.harm@ pjm.com
<b>IPP</b>	Scott Helyer	Tenaska, Inc. 1701 E. Lamar Blvd., Suite 100 Arlington, Texas 76006	817-371-5617 Scotth0960@ gmail.com
	Randy Horton, Ph.D., P.E. Chief Engineer	Southern Company Services, Inc. 42 Inverness Parkway Birmingham, Alabama 35242	(205) 257-6352 jrhorton@ southernco.com
<b>RE - RF</b>	John Idzior Senior Engineer, Reliability	ReliabilityFirst 3 Summit Park Drive Suite 600 Cleveland, Ohio 44131	216-503-0615 (330) 456-3648 Fx john.idzior@ rfirst.org
<b>Investor Owned Utility</b>	Bobby Jones Project Manager, Stability Studies	Southern Company Services, Inc. 600 North 18th street Birmingham, Alabama 35203	(205) 257-6148 (205) 257-1040 Fx rajones@ southernco.com
<b>RE - FRCC Alternate</b>	Scott G. Knewasser Senior Compliance Engineer	Florida Reliability Coordinating Council 3000 Bayport Drive, Suite 600 Tampa, Florida 33607-8407	813-289-5644 Fx sknewasser@ frcc.com
	Bob Krueger		rkrueger@ atllc.com
<b>RE - NPCC</b>	Hai Quoc Le Manager, System Planning and Protection	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-1070 (212) 302-2782 Fx quoc@npcc.org
<b>Government Representative - US Federal Gov.</b>	Eddy Lim Senior Electrical Engineer	Federal Energy Regulatory Commission 888 First Street NE 92-79 Washington, D.C. 20426	(202) 502-6713 (202) 441-5724 Fx Eddy.Lim@ ferc.gov
	Larisa Loyferman	CenterPoint Energy	larisa.loyferman@ centerpointenergy.co m
<b>RE - TRE</b>	jagan m mandavilli Compliance Analyst Sr.	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Austin, Texas 78746	5125834942 jagan.mandavilli@ texasre.org

<b>ISO/RTO</b>	Durgesh Manjure Manager, Modeling	MISO 1125 Energy Park Drive St. Paul, Minnesota 55108	(651) 632-8410 (651) 632-8417 Fx dmanjure@ misoenergy.org
<b>Correspondent</b>	Paul McCurley Manager, Power Supply and Chief Engineer	National Rural Electric Cooperative Association 4301 Wilson Blvd Arlington, Virginia 22203	(703) 907-5867 (703) 907-5517 Fx paul.mccurley@ nreca.coop
<b>Cooperative</b>	Patricia E Metro Manager, Transmission and Reliability Standards	National Rural Electric Cooperative Association 4301 Wilson Blvd. Mail Code EP11-253 Arlington, Virginia 22203	(703) 907-5817 (571) 334-8890 Fx patti.metro@ nreca.coop
<b>RE - MRO</b>	Thomas C. Mielnik Transmission Policy Director	MidAmerican Energy Co. 106 East Second Street Davenport, Iowa 52808	(563) 333-8129 (563) 333-8112 Fx tcmielnik@ midamerican.com
<b>RE-SPP</b>	John Mills Manager, Modeling	Southwest Power Pool, Inc. 201 Worthen Drive Little Rock, Arkansas 72223	(501) 614-3509 (501) 482-2013 Fx jmills@spp.org
<b>RE - RFC</b>	Eric Mortenson, P.E. Principal Rates & Regulatory Specialist	Exelon Business Services Company Transmission Strategy and Compliance 9th Floor - Lincoln Centre Two Oakbrook Terrace, Illinois 60181	(630) 576-6898 (630) 576-6354 Fx eric.mortenson@ ComEd.com
<b>RE - WECC</b>	Hari Singh Principal Engineer, Transmission Planning	Xcel Energy, Inc. 1800 Larimer Suite 600 Denver, Colorado 80202	(303) 571-7095 (303) 294-2909 Fx hari.singh@ xcelenergy.com
	Damien C Sommer	,	262.506.6949 dsommer@ atcllc.com
<b>Correspondent</b>	Yury Tsimberg Director of Asset Management	Kinectrics Inc 800 Kipling Avenue Toronto, Ontario M8Z 6C4	(416) 207-6000 Ext. 6106 Yury.Tsimberg@ kinectrics.com
<b>Correspondent</b>	Dana Walters Director, Reliability & Economic Planning	New York Independent System Operator 10 Krey Boulevard Rensselaer, New York 12144	(518) 356-8582 (518) 356-7524 Fx dwalters@ nyiso.com
<b>Correspondent</b>	Guy V. Zito Assistant Vice President of Standards	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-1070 (212) 302-2782 Fx gzito@npcc.org
<b>RE - MRO Alternate</b>	Salva R. Andiappan Manager- Modeling and Reliability Assessments	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1719 (651) 855-1712 Fx



<b>RE - MRO Alternate</b>	Salva R. Andiappan Manager- Modeling and Reliability Assessments	Midwest Reliability Organization 380 St. Peter Street Suite 800 St. Paul, Minnesota 55102	(651) 855-1719 (651) 855-1712 Fx sr.andiappan@ midwestreliability.or g
<b>RE - WECC Alternate</b>	Kent Bolton Staff Engineer	Western Electricity Coordinating Council 155 North 400 West, Ste 200 Salt Lake City, Utah 84103	(801) 883-6842 kent@wecc.biz
<b>RE - SERC Alternate</b>	Gary T Brownfield Supervising Engineer, Transmission Planning	Ameren Services 1901 Chouteau Avenue MC 691 Saint Louis, Missouri 63166-6149	(314) 554-2556 (314) 554-3268 Fx gbrownfield@ ameren.com
<b>RE - SERC Alternate</b>	Gaurav Karandikar Reliability Engineer	SERC Reliability Corporation 3701 Arco Corporate Drive Suite 500 Charlotte, North Carolina 28273	(704) 414-5271 gkarandikar@ serc1.org
<b>Observer</b>	Amos Ang Transmission Planner	Southern California Edison Company 3 Innovation Way Pomona, California 91768	(909) 274-1631 (909) 274-3212 Fx amos.ang@sce.com
<b>Observer</b>	Donald M. Benjamin	Don Benjamin, LLC 12 Franklin Drive Plainsboro, New Jersey 08536	(609) 662-0680 don.benjamin@ db-llc.net
<b>Observer</b>	Matt Donnelly	Montana Tech 1300 W. Park Street Butte, Montana 59701	(406) 496-4846 m.k.donnelly@ ieee.org
<b>Observer</b>	Ed Ernst	North American Transmission Forum 9300 Harris Commons Pkwy Suite 300 Charlotte, North Carolina 28269	(704) 945-1946 eerst@natf.net
<b>Observer</b>	Mark E. Fidrych Director of Peer Review	North American Transmission Forum 12 Franklin Drive Plainsboro, New Jersey 08536	(970) 372-2735 mfidrych@ natf.net
<b>Observer</b>	David Franklin Project Manager	Southern California Edison Company 3 Innovation Way Pomona, California 91768	(909) 274-1628 (626) 302-9647 Fx david.franklin@ sce.com
<b>Observer</b>	Ajay Garg Manager, Policy and Approvals	Hydro One Networks, Inc. 483 Bay Street, TCT ST-04 Toronto, Ontario M5G 2P5	(416) 345-5420 (416) 345-6029 Fx ajay.garg@ HydroOne.com
	Thomas J Gentile Senior Director - Transmission Northeast	Quanta Technology 78 Misty Meadow Road Pembroke, Massachusetts 02359	(919) 334-3051 (781) 336-8135 Fx tgentile@ quanta- technology.com
<b>Observer</b>	Christian D. Johnson Director of Metrics	North American Transmission Forum 12 Franklin Drive Plainsboro, New Jersey 08536	(856) 872-2255 cjohnson@ natf.net

	Ruth Kloecker Manager, Planning Policies	ITC Holdings 27175 Energy Way Novi, Michigan 48377	248-946-3370 rkloecker@ itctransco.com
<b>ISO/RTO Alternate</b>	Richard Kowalski Director, Transmission Strategy and Services	ISO New England, Inc. 1 Sullivan Road Holyoke, Massachusetts 01040	(413) 535-4127 (413) 540-4203 Fx RKowalski@ iso-ne.com
<b>Observer</b>	Zia Salami Associate Professor	University of North Carolina - Charlotte 1163 EPIC Building, ECE 9201 University City Boulevard Charlotte, North Carolina 28223	(704) 687-5517 (704) 687-4762 Fx zsalami@uncc.edu
<b>Observer</b>	Edward Scott Director	Duke Energy - Florida 6565 38th Avenue N. St. Petersburg, Florida 33710	(727) 384-7500 (727) 384-7994 Fx edward.scott2@ duke-energy.com
	Jun Wen Senior Power Systems Engineer	Southern California Edison Company 2131 Walnut Grove Ave. Rosemead, California 91770	(626) 484-9112 Jun.wen@sce.com
<b>Correspondent</b>	David A. Whiteley	Whiteley BPS Planning Ventures LLC 12000 Heatherdane Drive St. Louis, Missouri 63131	(314) 753-6200 d.a.whiteley@ att.net
<b>NERC Staff</b>	Robert W Cummings Senior Director of Engineering and Reliability Initiatives	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9717 (404) 446-2595 Fx bob.cummings@ nerc.net
	Olushola J Lutalo Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Olushola.Lutalo@ nerc.net
	Amir Najafzadeh Senior Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Amir.Najafzadeh@ nerc.net
	Mohamed M Osman Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	404-446-2560 (404) 446-2595 Fx Mohamed.Osman@ nerc.net
<b>NERC Staff Coordinator</b>	Ryan Quint Senior Engineer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3015 (202) 644-8099 Fx ryan.quint@ nerc.net

Pooja Shah  
Senior Engineer

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-9621  
(404) 446-2595 Fx  
pooja.shah@  
nerc.net

**NERC Staff**

Ganesh Velummylum  
Senior Manager of System  
Analysis

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx  
Ganesh.Velummylum  
@  
nerc.net

## System Protection and Control Subcommittee

<b>Chairman</b>	Philip B Winston Chief Engineer, Protection and Control	Southern Company 62 Like Mirror Road, Bin # 50061 Forest Park, Georgia 30297	(404) 608-5989 (404) 608-5199 Fx pbwinsto@ southernco.com
<b>Vice Chairman</b>	Richard P. Quest Principal Systems Protection Engineer	Midwest Reliability Organization 380 St. Peter Street Suite 800 Saint Paul, Minnesota 55102	(651) 855-1704 (612) 573-9261 Fx rp.quest@ midwestreliability.org
<b>TRE</b>	Samuel Francis System Protection Specialist	Oncor Electric Delivery 115 W. 7th Street Suite 3114 P. O. Box 970 Fort Worth, Texas 76101	(817) 215-6920 (817) 215-6889 Fx samuel.francis@ oncor.com
<b>FRCC</b>	Michael J. Putt, P.E. Manager, Protection and Control Engineering Applications Transmission and Substa	Florida Power & Light Co. 700 Universe Boulevard Juno Beach, Florida 33408	(561) 694-4689 (561) 309-4865 Fx michael.putt@ fpl.com
<b>MRO</b>	Mark Gutzmann, P.E. Manager, System Protection Engineering	Xcel Energy, Inc. 414 Nicollet Mall, MP8 Minneapolis, Minnesota 55401	(612) 330-6092 (612) 573-9229 Fx mark.g.gutzmann@ xcelenergy.com
<b>NPCC</b>	George Wegh Manager, Transmission Protection and Control Engineering	Eversource Energy Mail Stop 56P-1 P.O. Box 270 Hartford, Connecticut 06141	(860) 728-6179 george.wegh@ eversource.com
<b>WECC</b>	Bajarang Agrawal Principal Engineer	Arizona Public Service Co. P. O. Box 53933 MS 3185 Phoenix, Arizona 85072-3933	(602) 371-6386 (602) 371-7576 Fx
<b>Investor-Owned Utility</b>	Michael McDonald Principal Engineer System Protection	Ameren Services 1901 Chouteau Ave, Code 450 P.O. Box 66149 St. Louis, Missouri 63103	(314) 554-3551 (314) 554-3260 Fx mikemcdonald@ ameren.com
	William J. Miller Principal Engineer	Exelon Corporation 2 Lincoln Center Oakbrook Terrace, Illinois 60181	(630) 576-6916 (630) 576-6354 Fx williamj.miller@ comed.com
<b>Canada Provincial</b>	Sungsoo Kim Section Manager – Protections and Technical Compliance	Ontario Power Generation Inc. 14000 Niagra Parkway, R.R. #1 Niagara-On-The-Lake, Ontario L0S 1J0	(905) 357-0322 X6338 sungsoo.kim@ opg.com
<b>Canada Provincial</b>	Miroslav Kostic P&C Planning Manager, Transmission	Hydro One Networks, Inc. 483 Bay Street North Tower, 15th Floor Toronto, Ontario M5G 2P5	(416) 345-6014 (416) 230-3053 Fx miroslav.kostic@ hydroone.com

	Forrest Brock Transmission Compliance Specialist	Western Farmers Electric Coop. 701 NE 7th Street PO Box 429 Anadarko, Oklahoma 73005-0429	405-247-4360 (405) 247-4453 Fx f_brock@wfec.com
	John Bussman Manager, Reliability Compliance	Associated Electric Cooperative, Inc. PO Box 754 Springfield , Missouri 65712	4178859216 4178915499 Fx jbussman@ aeci.org
	William T Crossland Sr. Engineer, Compliance	ReliabilityFirst 3 Summit Park Drive Suite 600 Cleveland, Ohio 44131	216.503.0613 (330) 456-5408 Fx bill.crossland@ rfirst.org
	Jennifer Flandermeyer Senior Manager Compliance Programs	Kansas City Power & Light Co. 1200 Main Street Kansas City, Missouri 64105	(816) 701-7851 (816) 654-1189 Fx Jennifer.Flandermeye r@ kcpl.com
	David Greene Reliability Engineer	SERC Reliability Corporation 2815 Coliseum Centre Dr Charlotte, North Carolina 28217	704-414-5238 704-488-0177 Fx dgreene@ serc1.org
	Hai Quoc Le Manager, System Planning and Protection	Northeast Power Coordinating Council 1040 Avenue of the Americas (6th Ave) 10th Floor New York, New York 10018-3703	(212) 840-1070 (212) 302-2782 Fx quoc@npcc.org
	David P Penney Senior Reliability Engineer	Texas Reliability Entity, Inc. 805 Las Cimas Parkway Suite 200 Austin, Texas 78746	(512) 583-4958 david.penney@ texasre.org
	Eric Schwarzrock Director, NERC Compliance and Risk Analysis	NV Energy	775-232-9973 775-834-4353 Fx ESchwarzrock@ nvenergy.com
<b>Investor-Owned Utility</b>	Jonathan Sykes Senior Manager of System Protection	Pacific Gas and Electric Company 6111 Bollinger Canyon Road Room 2350b San Ramon, California 94602	(925) 328-5470 (510) 874-2442 Fx jfst@pge.com
<b>U.S. Federal Marketing Administration Alternate</b>	Daniel McNeely Engineer - System Protection and Analysis	Tennessee Valley Authority 1101 Market Street, MR-4K-C Chattanooga, Tennessee 37402	(423) 751-2028 (423) 751-6238 Fx drmcneely@ tva.gov
<b>U.S. Federal Marketing Administration</b>	Joe T. Uchiyama Senior Electrical Engineer	U.S. Bureau of Reclamation 86-68840 US Bureau of Reclamation Denver Federal Center Denver, Colorado 80225-0007	(303) 445-2845 (720) 544-0130 Fx juchiyama@ usbr.gov
<b>RFC</b>	Jeffrey Iler Supervisor, Protection & Control Engineering	American Electric Power 700 Morrison Road Gahanna, Ohio 43230	(614) 552-2119 jwiler@aep.com

	Scott Barfield-McGinnis, P.E. Senior Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx scott.barfield@ nerc.net
	Rich Bauer Senior Manager, Event Analysis	North American Electric Reliability Corporation 3353 Peactree Rd NE, Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9738 (404) 446-2595 Fx rich.bauer@ nerc.net
<b>NERC Staff</b>	Robert W Cummings Senior Director of Engineering and Reliability Initiatives	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9717 (404) 446-2595 Fx bob.cummings@ nerc.net
	Brad Gordon Manager of Reliability Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx brad.gordon@ nerc.net
	Janelle Law Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Janelle.law@ Nerc.net
	Olushola J Lutalo Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Olushola.Lutalo@ nerc.net
	Amir Najafzadeh Senior Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Amir.Najafzadeh@ nerc.net
	Mohamed M Osman Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	404-446-2560 (404) 446-2595 Fx Mohamed.Osman@ nerc.net
	Ryan Quint Senior Engineer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3015 (202) 644-8099 Fx ryan.quint@ nerc.net
	Katherine Street Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Katherine.street@ nerc.net

David Till  
Sr. Manager, Performance  
Analysis

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx  
david.till@  
nerc.net

Ganesh Velumyylum  
Senior Manager of System  
Analysis

North American Electric Reliability  
Corporation  
3353 Peachtree Road NE  
Suite 600, North Tower  
Atlanta, Georgia 30326

(404) 446-2560  
(404) 446-2595 Fx  
Ganesh.Velumyylum  
@  
nerc.net

## NERC Staff

Felek Abbas CID Compliance Auditor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx felek.abbas@ nerc.net
Noha Abdel-Karim Senior Engineer Reliability Assessment	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx noha.karim@ nerc.net
Valerie Agnew Senior Director of Reliability Assurance	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx valerie.agnew@ nerc.net
Emma Agola Instructional Design Specialist	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx emma.agola@ nerc.net
Harsimran K Ahuja Compliance Enforcement Advisor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx simran.ahuja@ nerc.net
Laura Anderson Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx laura.anderson@ nerc.net
Sandra Anderson Training and Education Coordinator	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx sandra.anderson@ nerc.net
Fahad Ansari Compliance Auditor	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9604 (404) 446-2595 Fx Fahad.Ansari@ nerc.net
Jim Armstrong Audit Manager	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx jim.armstrong@ nerc.net



Scott Barfield-McGinnis, P.E. Senior Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx scott.barfield@ nerc.net
Rich Bauer Senior Manager, Event Analysis	North American Electric Reliability Corporation 3353 Peactree Rd NE, Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9738 (404) 446-2595 Fx rich.bauer@ nerc.net
Courtney Baughan Legal Assistant	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx courtney.baughan@ nerc.net
Monica Benson Senior Analyst, Reliability Standards	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2573 (404) 446-2595 Fx monica.benson@ nerc.net
Charles A. Berardesco Senior Vice President, General Counsel, and Corporate Secretary	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx charlie.berardesco@ nerc.net
Stefan C Bergere Associate Counsel	North American Electric Reliability Corporation 1325 G Street N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx Stefan.Bergere@ nerc.net
Katrina Blackley Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road, NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx katrina.blackley@ nerc.net
Jerry Bland Solution Architect	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx jerry.bland@ nerc.net
Brice Blocker Senior Project Manager	North American Electric Reliability Corporation 3353 Peachtree Rd. NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx brice.blocker@ nerc.net
Sean Bodkin Standards Developer	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx Sean.Bodkin@ nerc.net

Brenda Boline Continuing Education Program Coordinator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx brenda.boline@ nerc.net
Tess T Bonnette Executive Assistant	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20002	(202) 400-3000 (202) 644-8099 Fx tess.bonnette@ nerc.net
Chris Boyd-Witherspoon Senior Compliance Auditor	North American Electric Reliability Corporation 3353 Peachtree Rd NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 Chris.Boyd- Witherspoon@ nerc.net
Cordell Briggs Senior Watch Officer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx cordell.briggs@ nerc.net
Terrance Brinker Senior Manager, Standards Information and Personnel Certification	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9655 (404) 446-2595 Fx terry.brinker@ nerc.net
Laura Brown Associate Director, Policy and Coordination	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx laura.brown@ nerc.net
Arthur Brown Counsel	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington , D.C. 20005	(202) 400-3011 (202) 644-8099 Fx Arthur.Brown@ nerc.net
Jeremy Bryant Team Lead, Help Desk & Desktop Services	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx jeremy.bryant@ nerc.net
Mat Bunch Reliability Standards Analyst	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx mat.bunch@ nerc.net
Tina Buzzard Administrative Associate Director to the Office of the CEO	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9686 (404) 446-2595 Fx tina.buzzard@ nerc.net

David Calderon Engineer, Reliability Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx david.calderon@ nerc.net
Clayton Calhoun Senior Event Investigator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx clayton.calhoun@ nerc.net
Robert D. Canada Associate Director, Physical Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx bob.canada@ nerc.net
Alexander H Carlson Technical Publication Specialist	North American Electric Reliability Corporation 2515 Northeast Expy, NE Apartment Y-9 Atlanta, Georgia 30345	404-450-8796 (404) 446-2595 Fx alex.carlson@ nerc.net
Carlo Castaneda ES-ISAC Cybersecurity Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3024 (202) 644-8099 Fx carlo.castaneda@ nerc.net
Candice Castaneda Counsel	North American Electric Reliability Corporation 1325 G Street, NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx candice.castaneda@ nerc.net
Gerry W Cauley President and Chief Executive Officer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (704) 840-7542 Fx Gerry.Cauley@ nerc.net
Sean Cavote Manager of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx sean.cavote@ nerc.net
Samuel D Chanoski Director of Situation Awareness and Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 904-2480 Fx sam.chanoski@ nerc.net
Erika Chanzas Manager, Business Planning and Regional Relations	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx erika.chanzas@ nerc.net

Mary C. Clouse Manager of Technical Publications	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx caroline.clouse@ nerc.net
Vee Cohens-Mustain Training Program Administrator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx vee.cohens@ nerc.net
Karen Coleman Accounts Payable Administrator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx karen.coleman@ nerc.net
Thomas H Coleman Director of Reliability Assessments	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 thomas.coleman@ nerc.net
Martin J Coyne Communications Coordinator	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8076 (202) 644-8099 Fx martin.coyne@ nerc.net
Stephen Crutchfield Senior Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(609) 651-9455 (404) 446-2595 Fx stephen.crutchfield@ nerc.net
JC Culberson Auditor	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx jc.culberson@ nerc.net
Robert W Cummings Senior Director of Engineering and Reliability Initiatives	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9717 (404) 446-2595 Fx bob.cummings@ nerc.net
Philip J Daigle ES-ISAC Cybersecurity Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx philip.daigle@ nerc.net
Charlotte de Sibert Senior Watch Officer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20002	(202) 400-3000 (202) 644-8099 Fx charlotte.desibert@ nerc.net

Maria DeSouza Senior IT Specialist	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx maria.desouza@ nerc.net
Amy Desselle Communications Coordinator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx amy.desselle@ nerc.net
Shameka Dunbar SharePoint Administrator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx shameka.dunbar@ nerc.net
Svetlana Ekisheva Principal Statistician	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx svetlana.ekisheva@ nerc.net
Shamai Elstein Senior Counsel	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx shamai.elstein@ nerc.net
Damon Epperson Director of Human Resources	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx damon.epperson@ nerc.net
Leigh A Faugust Counsel	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3023 (202) 644-8099 Fx leigh.faugust@ nerc.net
Mechelle Ferguson Director of Internal Audit and Corporate Risk Management	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-4650 (404) 446-2595 Fx Mechelle.Ferguson@ nerc.net
Zachary Fields Watch Officer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx zachary.fields@ nerc.net
Nick Freeman Senior Assistant, Meetings and Facilities Support	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx nick.freeman@ nerc.net

Aviance R Freeman Senior Analyst for User Testing and Application Services	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9640 (404) 446-2595 Fx Aviance.Freeman@ nerc.net
Matt Gibbons Manager of Internal Audit and Corporate Risk Management	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9704 (404) 446-2595 Fx matthew.gibbons@ nerc.net
Heather A. Gibbs Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx heather.gibbs@ nerc.net
Robert P Goldfin Law Clerk Intern	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx Robert.Goldfin@ nerc.net
Brad Gordon Manager of Reliability Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(470) 728-0790 (404) 446-2595 Fx brad.gordon@ nerc.net
Bill Graham Principal, Bulk Power System Awareness Coordination	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Bill.Graham@ NERC.net
Howard L. Gugel Director of Standards	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx howard.gugel@ nerc.net
David Halla Principal Threat and Vulnerability Advisor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx david.halla@ nerc.net
Tina Hamilton Communications Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx tina.hamilton@ nerc.net
Adriane Harkness Engineer of Registration and Certification	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9728 (404) 446-2595 Fx latrice.harkness@ nerc.net

Michael S Harris Senior System Administrator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx mike.harris@ nerc.net
Holly Hawkins Assistant General Counsel for Standards and CIP	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx holly.hawkins@ nerc.net
Marisa Hecht Senior Advisor, Compliance Assurance	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600 - North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx marisa.hecht@ nerc.net
Steve Herrin Manager - CRISP	North American Electric Reliability Corporation 1325 G Street, NW Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx steve.herrin@ nerc.net
Steve Herrin Manager - CRISP	North American Electric Reliability Corporation 1325 G Street, NW Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx steve.herrin@ nerc.net
Carl Herron Principal Critical Infrastructure Physical Security Advisor	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx carl.herron@ nerc.net
Travis Heyward Helpdesk Level 1 Helpdesk Services	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx travis.heyward@ nerc.net
Jason Hickman Senior Reliability Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 710-4885 Fx jason.hickman@ nerc.net
Jeff Hicks Associate Director, Information Technology and Projects	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9795 (404) 446-2595 Fx jeff.hicks@ nerc.net
Fred Hintermister Manager of ES-ISAC	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx fred.hintermister@ nerc.net

Fritz Hirst, III Director of Legislative and Regulatory Affairs	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx fritz.hirst@ nerc.net
Tom Hofstetter Senior CIP Compliance Auditor	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx tom.hofstetter@ nerc.net
Stan Hoptroff Vice President and Chief Technology Officer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Stan.Hoptroff@ NERC.NET
Aaron Hornick Compliance Enforcement Analyst	North American Electric Reliability Corporation 1325 G Street N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx aaron.hornick@ nerc.net
Dee Humphries Associate Director, Project Management Office	North American Electric Reliability Corporation 3353 Peachtree Rd NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx dee.hope@ nerc.net
Laura Hussey Director, Canadian Affairs	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20050	(202) 400-3000 (202) 644-8099 Fx laura.hussey@ nerc.net
Kristin Iwanechko Associate Director, Member Relations and MRC Secretary	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx kristin.iwanechko@ nerc.net
Joseph Januszewski Senior Watch Officer	North American Electric Reliability Corporation 1325 G Street N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx joseph.januszewski@ nerc.net
Linda A Jenkins Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9777 (404) 446-2595 Fx Linda.Jenkins@ nerc.net
Ara Johns Bulk Power System Awareness Analyst	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx ara.johns@ nerc.net



Nina Johnston Senior Counsel	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx nina.johnston@ nerc.net
Meredith Jolivert Attorney	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx Meredith.Jolivert@ nerc.net
Scott Jones Senior Director of Finance	North American Electric Reliability Corporation 3353 Peachtree Street North Tower, Suite 600 Atlanta, Georgia 30358	404-446-9645 (404) 446-2595 Fx Scott.Jones@ nerc.net
Anya Josephson Senior Analyst	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx anya.josephson@ nerc.net
Robert Kenyon Senior Investigator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx robert.kenyon@ nerc.net
Larry J Kezele Senior Manager of Operations	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(609) 273-0839 (404) 446-2595 Fx larry.kezele@ nerc.net
Naved Khan Compliance Enforcement Engineer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx naved.khan@ nerc.net
Edwin Kichline Senior Counsel and Associate Director of Enforcement Processing	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx ed.kichline@ nerc.net
Soo J Kim Manager of Reliability	North American Electric Reliability Corporation 3353 Peachtree Road, NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx soo.jin.kim@ nerc.net
Trion King Manager of Personnel Certification & Continuing Education Programs	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx trion.king@ nerc.net

Andrea Koch Senior Director, ERO Enterprise Operations and Strategic Planning	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 Andrea.Koch@ nerc.net
Amber Konkol Webmaster and Content Manager	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx amber.konkol@ nerc.net
Adina Kruppa Compliance Assurance Manager	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx adina.kruppa@ nerc.net
Sabina Lam Accounting Manager	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2592 (404) 446-2595 Fx sabina.lam@ nerc.net
Christopher Larson Manager of Reliability Risk and Compliance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx chris.larson@ nerc.net
Mark G Lauby Vice President and Chief Reliability Officer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx mark.lauby@ nerc.net
Janelle Law Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Janelle.law@ Nerc.net
Bill Lawrence Associate Director, Stakeholder Engagement	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx bill.lawrence@ nerc.net
Matthew Lewis Manager of Training and Education	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx matthew.lewis@ nerc.net
Justin Lofquist Associate Director, Enterprise IT Architecture	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9711 (404) 446-2595 Fx justin.lofquist@ nerc.net

Olushola J Lutalo Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Olushola.Lutalo@ nerc.net
Trinh Ly Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx trinh.ly@ nerc.net
Kiel Lyons Compliance Assurance Manager	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx kiel.lyons@ nerc.net
Bridget Maddox Meeting Planner Specialist	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx bridget.maddox@ nerc.net
Jordan Mallory Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx jordan.mallory@ nerc.net
Mani Mardhekar Reliability Risk Assurance Engineer	North American Electric Reliability Corporation 3353 Peachtree Rd NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9615 (404) 446-2595 Fx mani.mardhekar@ nerc.net
Michelle Marx Senior Program Specialist, Reliability Assessment and System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx michelle.marx@ nerc.net
Eric Massara Junior System Administrator	North American Electric Reliability Corporation 1325 G Street, N.W Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx eric.massara@ nerc.net
Steven Masse Senior Investigator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx steven.masse@ nerc.net
Ryan Mauldin Compliance Assurance Advisor	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Ryan.Mauldin@ nerc.net

Al McMeekin, P.E. Senior Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx al.mcmeekin@ nerc.net
Ben McMillan Manager of Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx ben.mcmillan@ nerc.net
Sonia C Mendonca Deputy General Counsel and Vice President of Compliance and Enforcement	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx sonia.mendonca@ nerc.net
James Merlo Senior Director of Reliability Risk Management	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx james.merlo@ nerc.net
Rebecca Michael Senior Director, Reliability	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx rebecca.michael@ nerc.net
Kimberly Mielcarek Senior Director, Communications	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx kimberly.mielcarek@ nerc.net
Ben Miller Associate Director, Cyber Analysis	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx ben.miller@ nerc.net
Nakeyta Millerton Administrative Assistant	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8047 (202) 644-8099 Fx nakeyta.millerton@ nerc.net
Sara Minges Compliance Enforcement Advisor	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx sara.minges@ nerc.net
Scott R. Mix Senior CIP Technical Manager	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(215) 853-8204 (202) 644-8099 Fx scott.mix@ nerc.net

Darrell Moore Manager of Bulk Power System Awareness	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 904-5039 Fx darrell.moore@ nerc.net
Grant Moore ERO Enterprise Helpdesk	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx grant.moore@ nerc.net
Travis Moran Senior Physical Security Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3001 (202) 644-8099 Fx travis.moran@ nerc.net
Kahamala Morgan Compliance Enforcement Engineering Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington,, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx kahamala.morgan@ nerc.net
John Moura Director of Reliability Assessment and System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (609) 610-6044 Fx john.moura@ nerc.net
Roseann Mueller Administrative Assistant	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20002	(202) 400-3000 (202) 644-8099 Fx roseann.mueller@ nerc.net
Wendy Muller Specialist, Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road, NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx wendy.muller@ nerc.net
Robert Myers Junior System Administrator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx robert.myers@ nerc.net
Victor L Myers Senior Business Analyst	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx victor.myers@ nerc.net
Amir Najafzadeh Senior Engineer, Reliability Assessment	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Amir.Najafzadeh@ nerc.net

Elliott J Nethercutt Senior Technical Advisor	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8089 (202) 744-8044 Fx elliott.nethercutt@ nerc.net
Phuc Nguyen Internal Audit & Corporate Risk Management Specialist	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9651 (404) 446-2595 Fx phuc.nguyen@ nerc.net
Melinda Nicius Senior Database Administrator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx melinda.nicius@ nerc.net
Steven Noess Director of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600 Atlanta, Georgia 30326	404-446-9691 (404) 446-2595 Fx steven.noess@ nerc.net
Barbara Nutter Compliance Assurance Manager	North American Electric Reliability Corporation 3353 Peachtree Rd NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx barbara.nutter@ nerc.net
Mark Olson Senior Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9760 (404) 446-2595 Fx mark.olson@ nerc.net
Mohamed M Osman Senior Engineer of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	404-446-2560 (404) 446-2595 Fx Mohamed.Osman@ nerc.net
Alison Oswald Event Investigator	North American Electric Reliability Corporation 3353 Peachtree Rd NE Suite 600 North Tower Atlanta, Georgia 30326	(404) 446-9668 (404) 446-2595 Fx alison.oswald@ nerc.net
Lacey Ourso Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx lacey.ourso@ nerc.net
Margaret Pate Reliability Risk Control Program Liaison	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Margaret.pate@ nerc.net

Wanda Peoples Associate Director of Meeting Planning and Facilities Services	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx wanda.peoples@ nerc.net
Hugo F Perez Senior Engineer, Reliability Assurance	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Hugo.Perez@ nerc.net
Lauren Perotti Counsel	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx Lauren.Perotti@ nerc.net
Alan Pineda Cybersecurity Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 644-8093 (202) 644-8099 Fx alan.pineda@ nerc.net
Sandra Pinneke Manager of Employee Services	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx sandra.pinneke@ nerc.net
Levetra Pitts Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta , Georgia 30326	(404) 446-2560 (404) 446-2595 Fx levetra.pitts@ nerc.net
Aundrea Posey Executive Assistant	North American Electric Reliability Corporation 1325 G Street N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx aundrea.posey@ nerc.net
Donna K Pratt Senior Performance Analysis Advisor	North American Electric Reliability Corporation 3353 Peachtree Road N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9789 (404) 446-2595 Fx donna.pratt@ nerc.net
Elsa A Prince Manager of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx elsa.prince@ nerc.net
Don Prince IT Director - Cyber Infrastructure	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx don.prince@ nerc.net

Scott W Quenneville Engineer of Registration and Certification	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx scott.quenneville@ nerc.net
Ryan Quint Senior Engineer	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3015 (202) 644-8099 Fx ryan.quint@ nerc.net
Peter J Raia Compliance Enforcement Regulatory Assistant	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20011	(202) 400-3000 (202) 644-8099 Fx peter.raia@ nerc.net
George Rankin Human Resources Specialist	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx george.rankin@ nerc.net
John Ransom CID Projects Specialist	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx john.ransom@ nerc.net
Darrel Richardson Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx darrel.richardson@ nerc.net
Andy J Rodriquez NERC IT Director – Business Process Improvements	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx andy.rodriquez@ nerc.net
Linda M Rose Principal Advisor, Reliability Risk and Compliance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 linda.rose@ nerc.net
Tim E. Roxey Senior Director and Chief Security Officer	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx tim.roxey@ nerc.net
Edward H Ruck Senior Data and Alert Specialist	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx ed.ruck@nerc.net



Tracy Ruffin Executive Assistant	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx tracy.ruffin@ nerc.net
Marcus Sachs Senior Vice President and Chief Security Officer	North American Electric Reliability Corporation 1325 G St NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx marcus.sachs@ nerc.net
Marvin Santerfeit Director of Information Technology and Services	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9703 (404) 357-7144 Fx marvin.santerfeit@ nerc.net
Nasheema Santos Standards Development Administrator	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx nasheema.santos@ nerc.net
Christopher D Scheetz Technical Analyst	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600 - North Tower Atlanta, Georgia 30326	404-446-9608 (202) 644-8099 Fx chris.scheetz@ nerc.net
Janet L. Sena Vice President and Director of Policy and External Affairs	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx janet.sena@ nerc.net
Pooja Shah Senior Engineer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9621 (404) 446-2595 Fx pooja.shah@ nerc.net
Sandy Shiflett Senior Program Specialist, Reliability Risk Management	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx sandy.shiflett@ nerc.net
Michael Si Senior Windows System Administrator	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx michael.si@ nerc.net
Andrew D Slone Senior Engineer, Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Andrew.Slone@ nerc.net

LaCreacia Smith Senior Project Manager	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx lacreacia.smith@ nerc.net
Suzanne Smith-Wigfall Manager of Corporate Services Support	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Suzanne.Smith- Wigfall@ nerc.net
Max Spector Threat and Vulnerability Specialist	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx max.spector@ nerc.net
Teresina Stasko Senior Counsel & Manager of Enforcement Actions	North American Electric Reliability Corporation 1325 G Street, NW Suite 600 Washington, D.C. 20005	(202) 618-5358 (202) 644-8099 Fx teresina.stasko@ nerc.net
Orlando L. Stevenson ES-ISAC Cybersecurity Specialist	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005	(202) 644-8077 (202) 644-8099 Fx orlando.stevenson@ nerc.net
Ryan A Stewart Manager of Standards Development	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx ryan.stewart@ nerc.net
Katherine Street Standards Developer	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Katherine.street@ nerc.net
Craig A. Struck Senior Auditor	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx craig.struck@ nerc.net
Jim Stuart Associate Director, Reliability Assurance and Registration	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9716 (404) 446-2595 Fx jim.stuart@ nerc.net
Farzaneh Tafreshi Manager of Compliance Analysis Reporting and Tracking	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx farzaneh.tafreshi@ nerc.net

Jule W. Tate Associate Director, Event Analysis	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2572 (404) 446-2595 Fx jule.tate@ nerc.net
Chris Taylor Office Coordinator	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20002	(202) 400-3000 (202) 644-8099 Fx chris.taylor@ nerc.net
Lee Thaubald Technical Analyst	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx lee.thaubald@ nerc.net
Cole Thompson Staff Accountant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446/2560 (404) 446-2595 Fx cole.thompson@ nerc.net
David Till Sr. Manager, Performance Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx david.till@ nerc.net
Susan Turpen Controller	North American Electric Reliability Corporation 3353 Peachtree Rd NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx susan.turpen@ nerc.net
Brooke Vann Senior Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx brooke.vann@ nerc.net
Matthew Varghese Senior Performance Analysis Engineer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx matthew.varghese@ nerc.net
Ganesh Velumylyum Senior Manager of System Analysis	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Ganesh.Velumylyum @ nerc.net
Michael Walker Senior Vice President and Chief Financial and Administrative Officer	North American Electric Reliability Corporation 3353 Peachtree Road, N.E. Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-9740 (404) 446-2595 Fx michael.walker@ nerc.net

Melanie V Ward Administrative Assistant	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2792 (404) 640-8327 Fx melanie.ward@ nerc.net
Tobias Whitney CIP Compliance Manager	North American Electric Reliability Corporation 1325 G Street, N.W. Suite 600 Washington, D.C. 20005-3801	(202) 400-3000 (202) 644-8099 Fx tobias.whitney@ nerc.net
Andrew C Wills Associate Counsel	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20005	(202) 400-3000 (202) 644-8099 Fx andrew.wills@ nerc.net
Kristen Worosz ES-ISAC Cyber Security Specialist	North American Electric Reliability Corporation 3353 Peachtree Road NE Suite 600, North Tower Atlanta, Georgia 30326	(404) 446-2560 (404) 446-2595 Fx Kristen.Worosz@ nerc.net
Gizelle G Wray Associate Counsel	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington , D.C. 20005	(202) 400-3000 (202) 748-6643 Fx gizelle.wray@ nerc.net
Wai Ran Wu Senior Engineer, Bulk Power System Awareness	North American Electric Reliability Corporation 3353 Peachtree Road, NE Suite 600, North Tower Atlanta, , Georgia 30326	(404) 446-9673 (404) 446-2595 Fx warren.wu@ nerc.net
Alexandra Zak Legal Assistant	North American Electric Reliability Corporation 1325 G Street NW Suite 600 Washington, D.C. 20013	(202) 644-8044 (202) 644-8099 Fx alex.zak@ nerc.net