

IEEE/PES SUBSTATIONS COMMITTEE
Association Management System (AM System)
-- Operating Instructions for Committee Admins--

Markus Ethers (Committee Secretary) is primary System Administrator. The Committee Chair (presently John Randolph), the Committee Vice-Chair (presently Mike Dood), and Meetings Subcommittee Chair Presently Diane Watkins) are secondary System Administrators.

Notes:

1. Additional instructions can be found within the Help section of the AM System.
2. Our association ID is "IPSC".

INTRODUCTION

This innovative web-based system allows our Committee, subcommittees, working groups, task forces, and liaison associations to operate and communicate more effectively. Activity Leaders (subcommittee, working group, and task force officers) can maintain membership records, print activity/meeting rosters, and send emails. Fewer bounced emails will result because individual contact information is "self-maintained" by each individual and is stored in a single relational database used by all functions of the system. The AM System also provides a more efficient and cost-effective on-line meeting registration system.

MAJOR FUNCTIONS

1. Association Management System
 - membership directory (only accessible to Committee Members)
 - maintain activity membership lists
 - send emails to activity participants
 - print activity/meeting rosters
 - maintain historical meeting attendance records
 - determine "stale members" who have dropped out of participation (a future function)
2. Event Registration (upcoming function)
 - meeting pre-registration
 - meeting on-site registration
 - print name badges
 - etc.

SECURITY AND PRIVACY

Every effort has been made to ensure that unauthorized access to personal contact information is limited. Although some limited contact information can be accessed one record-at-a-time, contact information of system participants in long-list format cannot be viewed by individual users.

Note: All system accesses and functions are logged! Anyone performing undesired or malicious (or accidental) activities can be identified. Any use of the system for commercial purposes -- for instance, numerous repetitive access to the Membership Directory to create marketing-type lists -- may result in permanent suspension from system access.

SYSTEM ACCESS

If you are an Activity Leader (SC/WG/TF chair, vice-chair, or secretary), you are provided "limited administrative rights" by a System Administrator. If you cannot access the AM System, contact a System Administrator to be provided administrative rights.

Major functions of the AM System will be accessed in the future from the Substations Committee website (<http://ewh.ieee.org/cmte/substations/>). Major system functions include: Enroll, View or Modify Personal Profile, Membership Directory, and Control Center. Administrative functions are performed within Control Center.

HONOR SYSTEM

All Activity Leaders (SC/WG/TF chair, vice-chair, or secretary) have the same administrative rights. Any activity can be modified by any Activity Leader! Although there are protections to limit someone from adding or deleting an activity, anyone with administrative rights can access and modify any activity -- not just those activities you are directly responsible for. All Activity Leaders operate on the "honor system". Please be careful to only make modifications to your activity! If you are an administrator of a "child activity" (a WG or TF), be especially careful to ensure you are making modifications to your activity and not the associated parent SC.

Note: All individual system accesses and functions are logged. Those performing malicious (or accidental activities) can be identified.

SYSTEM NAVIGATION

Important: When navigating through the system, **DO NOT** use the "back arrow" on your web-browser. Use the done/back/save radio buttons at the bottom of the 123SignUp screen.

LEVELS OF MEMBERSHIP (Important ... Understand This!)

There are essentially three levels of membership in the system:

- Committee Member (a "full voting member" of the Substations Committee)
- Active Participant (not a Substations Committee Member, but an active contributor and meeting attendee)
- Interested Participant (a "remote observer" and supporter of the Committee's scope)

Anyone can enroll in the AM System -- even those who desire to only passively monitor Committee work from a distance. Initially, a person is automatically enrolled as an Interested Participant. Once Substations Committee membership or regular participation as a Working Group or Task Force member is validated by a System Administrator, enrollment is manually upgraded to Active Participant or Committee Member.

COMMITTEES, SUBCOMMITTEES, PARENT/CHILD COMMITTEES, ETC.

The AM System uses the term "committee" to refer to any activity. Although we are the "Substations Committee" (TC), and have various activities such as subcommittees (SCs), working groups (WGs), and task forces (TFs), the AM System refers to all activities as **committees** or **children**.

Generally, "parent committees" refer to TC subcommittees and liaison activities (NEMA, ANSI activities, etc). Child committees are working groups and task forces "under" parent committees. Task forces can be created that operate directly under a subcommittee (as a child) or directly under a working group (as a grandchild).

MANAGE COMMITTEES (This is where you start!)

Most of the effort by Activity Leaders is performed from the "Manage Committee" area. After logging into the Control Center, the system should initially open into the ORGANIZATION section. If not, select the black tab "ORGANIZATION". The Manage Committee link is located towards the bottom of the left-hand side of the page.

Screen print from Manage Committee selection:

The screenshot shows the 'Manage Committee' page in a web application. The top navigation bar includes 'ORGANIZATION', 'MEMBERSHIP', 'DONATIONS', 'EVENTS', 'REGISTRATION', 'MAILINGS', 'SOCIAL MEDIA', and 'REPORTS'. The 'ORGANIZATION' tab is active, and the 'Manage Committee' sub-tab is selected. On the left sidebar, there are links for 'Support' and 'Sign Out', along with copyright information: 'Copyright © 1998-2012 123Group AHS, Inc. All rights reserved.' The main content area contains instructions: 'Select a Committee name from the Search Results. Click the Edit button to modify the profile details for the Committee or click the Delete button to completely remove the Committee (and any child Committees). Click the name of the Committee to generate the list server mailbox address for this Committee.' Below this are three more instructions: 'Click the Add Participants button to add participants to the selected Committee or click the Manage Participants button to manage the individuals already in the Committee.', 'Click the Manage Children button to manage the child Committees of the Committee.', and 'Click the New Meeting button to add a new meeting for the Committee or click the View Calendar button to view the meeting calendar of the Committee.'

Manage Committees 1 - 5 of 10

Name	Participant Count	Child Count	Participant Visibility
<input checked="" type="radio"/> MCA0 - Main Substations Committee	225	0	Member
<input type="radio"/> SCB0 - Administrative Subcommittee	14	11	Member
<input type="radio"/> SCC0 - Data Acquisition, Processing, and Control Systems Subcommittee	28	16	Member
<input type="radio"/> SCD0 - Transmission and Distribution Substations Design Subcommittee	30	10	Member
<input type="radio"/> SCE0 - Transmission and Distributions Substations Operations Subcommittee	43	9	Member

Navigation: < First < Prev [Edit] [Manage Participants] [Add Participants] [Manage Children] [View Calendar] [New Meeting] Next > Last >

Too many results? Enter the name of the Committee and click on Search.

Search Criteria

Committee Name: [Search]

Footer: Internet | Protected Mode: On | 100%

The Child Count column indicates the number of WGs or TFs that are sponsored by the listed Subcommittees.

Once the Manage Committee function is open, page to the desired TC subcommittee using the left and right Next and Prev arrows. TC Subcommittee officers should manage participants and meetings from this level. Working Group officers should select a particular Subcommittee (fill-in the small circle to the left of the SC name) and select the Manage Children button. Navigate through the system to find the desired WG.

Screen print from Manage Children selection with the SCI0 radio button selected:

ORGANIZATION | MEMBERSHIP | DONATIONS | EVENTS | REGISTRATION | MAILINGS | SOCIAL MEDIA | REPORTS

ORGANIZATION | **Manage Committee**

Committee - Manage Committee

Support Sign Out

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Select a Committee name from the Search Results. Click the Edit button to modify the profile details for the Committee or click the Delete button to completely remove the Committee (and any child Committees). Click the name of the Committee to generate the list server mailbox address for this Committee.

Click the Add Participants button to add participants to the selected Committee or click the Manage Participants button to manage the individuals already in the Committee.

Click the Manage Children button to manage the child Committees of the Committee.

Click the New Meeting button to add a new meeting for the Committee or click the View Calendar button to view the meeting calendar of the Committee.

Click the Done button to return to the previous level of Committees. Click the Add Child button to add a child Committee.

Manage Committees
SCI0 - High Voltage Power Electronics Stations 1 - 5 of 6

Name	Participant Count	Child Count	Participant Visibility
<input checked="" type="radio"/> WG11 - Power Electronic Equipment	13	0	Member
<input type="radio"/> WG12 - 1S34 Thyristor-Controlled Series Capacitors	7	0	Member
<input type="radio"/> WG14 - Static Var Compensators (SVCs)	56	2	Member
<input type="radio"/> WG15 - Voltage Sourced Inverters (VSI)	39	0	Member
<input type="radio"/> WG18 - Power Electronics Building Blocks	27	2	Member

First Prev Edit Manage Participants Add Participants Done Manage Children View Calendar New Meeting Next Last

Too many results? Enter the name of the Committee and click on Search.

Search Criteria

Committee Name: Search

The above are the Working Groups under the I0 Subcommittee. The Child Count column indicates the number of TFs that are sponsored by the listed WGs.

Task Force officers should select a particular Working Group (fill-in the small circle to the left of the WG name) and select the Manage Children button. Navigate through the system to find the desired TF.

Screen print from Manage Children selection with the WGI4 radio button selected:

ORGANIZATION | MEMBERSHIP | DONATIONS | EVENTS | REGISTRATION | MAILINGS | SOCIAL MEDIA | REPORTS

ORGANIZATION | **Manage Committee**

Committee - Manage Committee

Support Sign Out

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Select a Committee name from the Search Results. Click the Edit button to modify the profile details for the Committee or click the Delete button to completely remove the Committee (and any child Committees). Click the name of the Committee to generate the list server mailbox address for this Committee.

Click the Add Participants button to add participants to the selected Committee or click the Manage Participants button to manage the individuals already in the Committee.

Click the Manage Children button to manage the child Committees of the Committee.

Click the New Meeting button to add a new meeting for the Committee or click the View Calendar button to view the meeting calendar of the Committee.

Click the Done button to return to the previous level of Committees. Click the Add Child button to add a child Committee.

Manage Committees
WGI4 - Static Var Compensators (SVCs) 1 - 2 of 2

Name	Participant Count	Child Count	Participant Visibility
<input checked="" type="radio"/> I4-TF2 - IEEE 1303	22	0	Admin Only
<input type="radio"/> I4TF1 -- 1031 Guide for Spec of Transmission SVC	20	0	Admin Only

First Prev Edit Manage Participants Add Participants Done Manage Children View Calendar New Meeting Next Last

Too many results? Enter the name of the Committee and click on Search.

Search Criteria

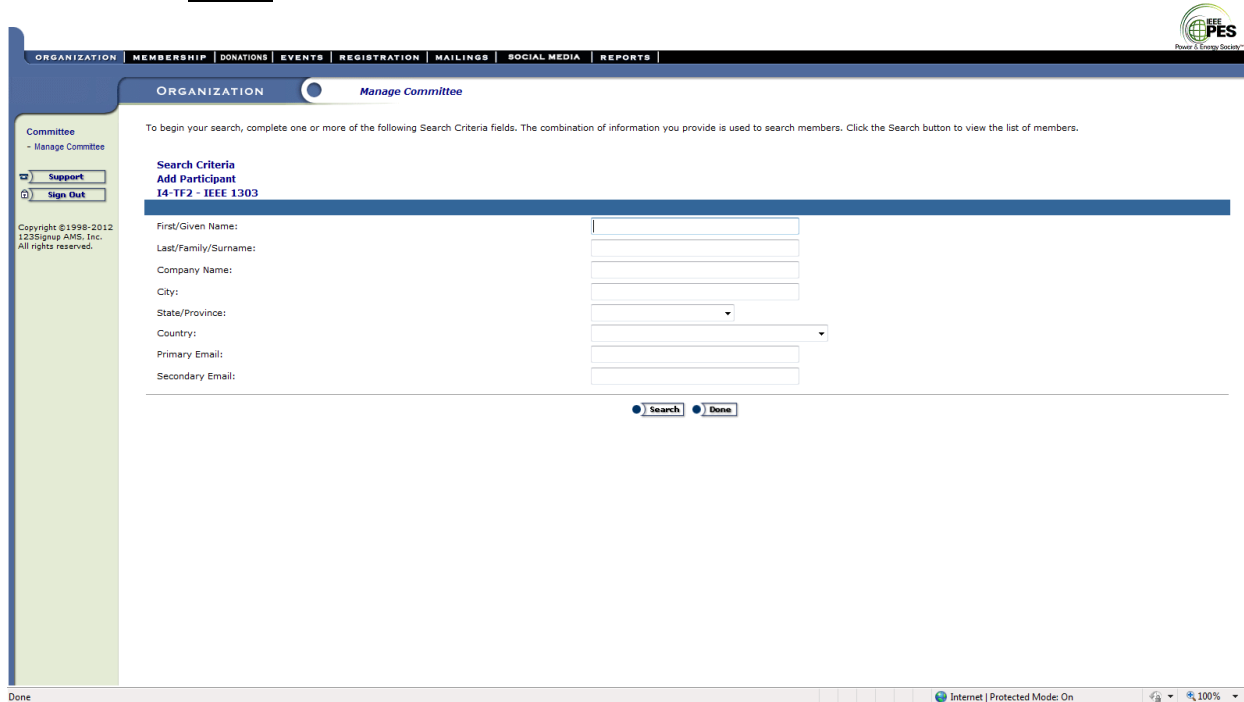
Committee Name: Search

ADDING PARTICIPANTS

Once the desired activity is located, select it by clicking the small circle to the left of the activity name. To add participants, select Add Participants.

Participants can be added two ways:

1. Search for an individual by entering their first or last name (or a part of their name) in the search boxes and then select the Search button at the bottom.

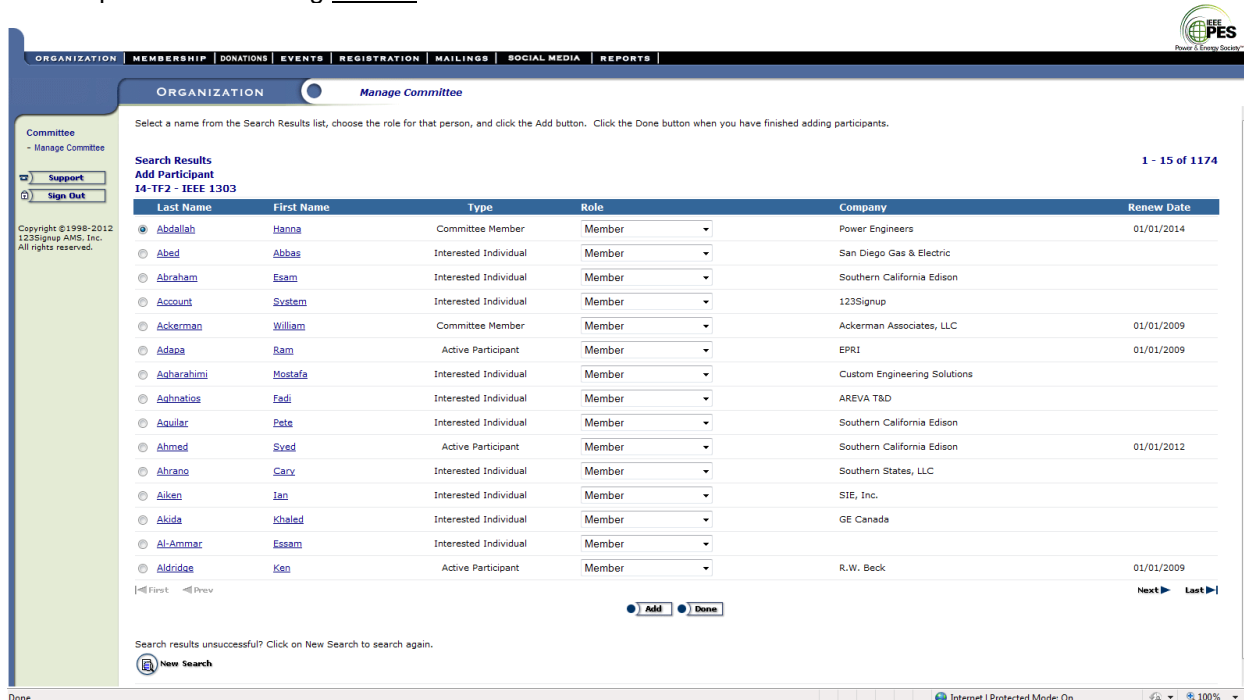


The screenshot shows the 'Add Participant' search form in the PES system. The form is titled 'Search Criteria Add Participant I4-TF2 - IEEE 1303'. It contains several input fields for search criteria: First/Given Name, Last/Family/Surname, Company Name, City, State/Province (dropdown), Country (dropdown), Primary Email, and Secondary Email. At the bottom of the form are 'Search' and 'Done' buttons. The left sidebar shows the 'Committee - Manage Committee' section with 'Support' and 'Sign Out' links. The top navigation bar includes 'ORGANIZATION', 'MEMBERSHIP', 'DONATIONS', 'EVENTS', 'REGISTRATION', 'MAILINGS', 'SOCIAL MEDIA', and 'REPORTS'. The PES logo is in the top right corner.

OR

2. Without entering anything into the search boxes, select the Search button at the bottom to view a list of everyone entered into the AM System who is not already a participant of the selected activity.

Screen print after selecting Search button:



The screenshot shows the 'Search Results' page in the PES system. The page is titled 'Search Results Add Participant I4-TF2 - IEEE 1303' and shows a list of 1174 results (1-15 of 1174). The table below lists the search results with columns for Last Name, First Name, Type, Role, Company, and Renew Date. At the bottom of the table are 'Add' and 'Done' buttons. The left sidebar shows the 'Committee - Manage Committee' section with 'Support' and 'Sign Out' links. The top navigation bar includes 'ORGANIZATION', 'MEMBERSHIP', 'DONATIONS', 'EVENTS', 'REGISTRATION', 'MAILINGS', 'SOCIAL MEDIA', and 'REPORTS'. The PES logo is in the top right corner.

Last Name	First Name	Type	Role	Company	Renew Date
Abdallah	Hanna	Committee Member	Member	Power Engineers	01/01/2014
Abad	Abbas	Interested Individual	Member	San Diego Gas & Electric	
Abraham	Esam	Interested Individual	Member	Southern California Edison	
Account	System	Interested Individual	Member	123Signup	
Ackerman	William	Committee Member	Member	Ackerman Associates, LLC	01/01/2009
Adapa	Ram	Active Participant	Member	EPRI	01/01/2009
Agharahimi	Mostafa	Interested Individual	Member	Custom Engineering Solutions	
Aghnatos	Fadi	Interested Individual	Member	AREVA T&D	
Aguilar	Pete	Interested Individual	Member	Southern California Edison	
Ahmed	Syed	Active Participant	Member	Southern California Edison	01/01/2012
Ahrano	Carv	Interested Individual	Member	Southern States, LLC	
Aiken	Jan	Interested Individual	Member	SIE, Inc.	
Akida	Khaled	Interested Individual	Member	GE Canada	
Al-Ammar	Essam	Interested Individual	Member		
Aldridge	Ken	Active Participant	Member	R.W. Beck	01/01/2009

Participants can only be entered one at a time. Using the Member pull-down window, indicate their status in the activity as the Chair, Vice-chair, Secretary, Member, Guest, or Corresponding Member. Once a participant is added, their name disappears from the list indicating they have been added.

If trying to add a participant, and they do not appear in the system (using method 1 or 2 above), it is because that individual has not signed-up into the AM System. Please help us to completely populate the system by contacting that individual and instructing them to sign-up to the AM System via the Substations Committee website (go the AM System page and click on "Sign-in").

Generally, most individuals who have attended a past Committee meeting and participate regularly are enrolled in the AM System and may have been upgraded to Active Participant or Committee Member membership status. If you try to enter a participant in an activity, and a warning appears that they "do not have access", it is because they have not been manually upgraded by a System Administrator to the Committee Member or Active Participant membership level (perhaps they have recently signed-up to the AM System and still need to be manually upgraded). Go ahead and bypass the warning, add them as a participant of the activity, and notify a System Administrator to investigate the situation.

You may view or remove participants by using the [Manage Participants](#) button on the Manage Committees page. You may also change their activity status (Chair, Vice-chair, Secretary, Member, Guest, or Corresponding Member) using that function.

SENDING EMAILS

Note: Only the chair, vice-chair, and secretary role can send emails using the system. Also, the system does not support the role of a Co-chair or a Technical Editor.

An email message may be disseminated to any activity/group (SC/WG/TF). This is done by sending an email from your regular email client (MS-Outlook, Lotus Notes, AOL, Yahoo, etc.) to the AM System. The AM System then forwards the emails to every participant added into the activity. Less "bounced emails" will happen because the individual contact information (email addresses, etc) are self-maintained by each individual.

To send an email, you must first "generate" an email address using the AM System. While in the Manage Committee section, click on the underlined name of the activity. This will display the associated committee profile information. By default the email will go to everyone within the parent committee ("All" under **Roles**). Select the people you wish to send the message to by clicking on the radio button next to each desired type of member (i.e. Chair, Secretary, members, etc) under **Roles**.

ORGANIZATION | MEMBERSHIP | DONATIONS | EVENTS | REGISTRATION | MAILINGS | SOCIAL MEDIA | REPORTS

ORGANIZATION Manage Committee

Committee: SCCO - Data Acquisition, Processing, and Control Systems Subcommittee 28 Participants

Support Sign Out

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Committee Profile Information

Name: SCCO - Data Acquisition, Processing, and Control Systems Subcommittee
Description: Treatment of all matters relating to data acquired within substations and its processing for monitoring, analysis, and local and/or remote control of substation apparatus and devices connected to the substation. Systems within the purview of this subcommittee include: interfaces to substation apparatus; use of transducers; and all types of communication media. These systems also use high-security communication protocols; computers with associated peripherals; video display units; printing and logging devices; software and/or firmware in order to perform their allocated functions; Also, responsible for the quality of data originating in the substation that is subsequently used for monitoring, analysis, and control of the power system. Sponsor and promote the use of new technologies (e.g., fiber optics, etc.) and new standards for integrating the functions of monitoring, analysis, control, protection, maintenance and operation of substation and feeder apparatus. Since responsibilities for standards apply.

Active Participants: 28
Child Committee: 16
Participant Visibility: Member

Allowed to Join: Active Participant, Committee Member, Committee Member Emeritus, Life Committee Member, Committee Member - Corresponding
Self Signup Allowed: None

List Server Address: list+SCCO+IPSC@123signup9.com
(Copy this address exactly as shown, including the plus signs)

List Server Access: Chair, Vice-Chair, Secretary

An email may be sent to the parent Committee only or to everyone in the Committee including those in the child Committee(s). You may also choose to send the email only to certain participants based on their role. Choose the target role(s) and participation level, then click the Generate Addresses button. Copy the address(es) exactly as shown in the text box into the To: window of your email client. You may only send email to this Committee if your role is listed above under List Server Access, and you may only send email from the email address on file with IEEE PES Substations Committee.

Roles:
 Chair
 Vice-Chair
 Secretary
 Member
 Guest
 Corresponding Member
 All

Participants:
 Parent Subgroup Only
 Parent plus Child Subgroups

Generate Addresses

list+chair+SCCO+IPSC@123signup9.com, list+vicechair+SCCO+IPSC@123signup9.com, list+secretary+SCCO+IPSC@123signup9.com

Internet | Protected Mode: On 85%

Important: When sending an email to a parent committee (perhaps a particular subcommittee), if you want the email to go to the Parent Subgroup and ALL WGs and TFs, then under **Participants:**, select "Parent plus Child Subgroups" box.

At the bottom of that page, click on Generate Addresses. A long strange-looking email address will appear. In the above print screen the string is:
list+chair+SCC0+IPSC@123signup9.com,list+vicechair+SCC0+IPSC@123signup9.com,list+secty+SCC0+IPSC@123signup9.com.

Cut-and-paste that long email address into the "TO" box of your email client and send an email as you normally would. You can include an attachment in the email as well. Attachments are currently limited to 1 MB in size.

Note: If you use an email system that uses a separator other than a comma, you may need to replace the commas in the address string with the appropriate separator symbol (i.e. for Outlook, you will need to use a semicolon instead of the comma).

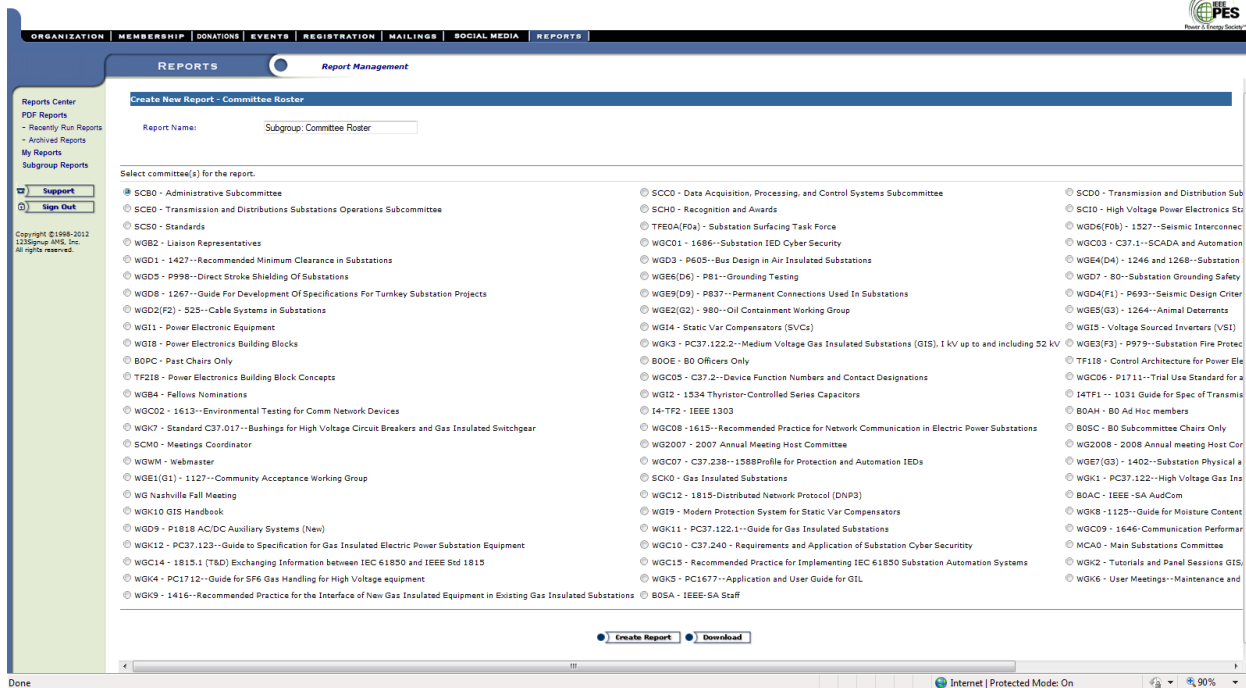
Initially, only the chair, vice-chair or secretary of the activity can send an email (we may allow manual selection of other individuals later). Also, it may take up to two hours to completely disseminate a message from the 123SignUp batch server.

Important: If you use your IEEE alias email address (joeblow@ieee.org) to log-in, you need to add a "secondary email" address into your profile. When you send an email to the AM System to be disseminated, the system validates the email address the message was sent from, against both the primary and second email addresses in your profile. If your work email address is entered as the secondary email address, and you wish to send an email from another email client (perhaps from your home), you will need to temporarily change the secondary email address in your profile before sending an email.

PRINTING ROSTERS

A "Committee Roster" may be printed and taken to a meeting and used to record attendance of an activity. It may also be downloaded into CSV format and pasted into a spreadsheet for further manipulation.

First, click on the black REPORTS tab at the top of the AM System.



The screenshot shows the IEEE AM System interface. At the top, there is a navigation bar with tabs: ORGANIZATION, MEMBERSHIP, DONATIONS, EVENTS, REGISTRATION, MAILINGS, SOCIAL MEDIA, and REPORTS. The REPORTS tab is active, and the page title is "REPORTS" with a sub-header "Report Management".

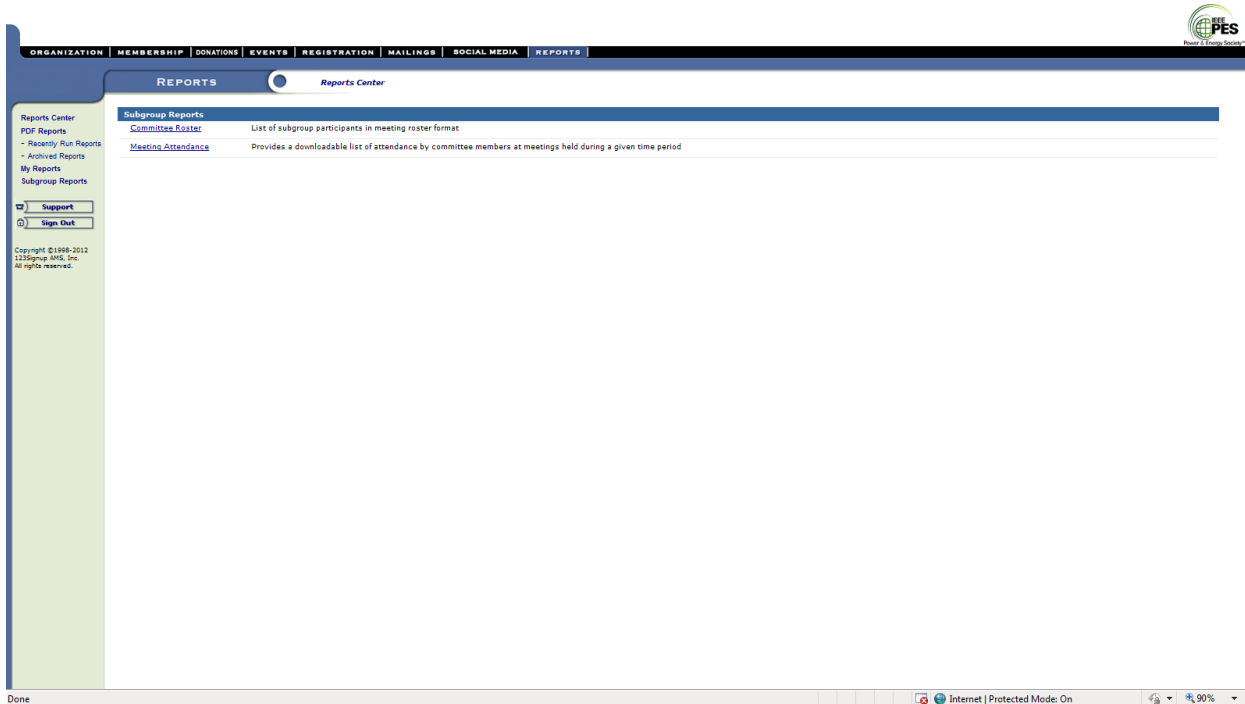
On the left side, there is a sidebar with the following menu items: Reports Center, PDF Reports, Recently Run Reports, Archived Reports, My Reports, and Subgroup Reports. Below these are buttons for "Support", "Sign Out", and "Sign Out".

The main content area is titled "Create New Report - Committee Roster". It has a form for "Report Name:" with the value "Subgroup: Committee Roster". Below this is a section "Select committee(s) for the report:" followed by a grid of 48 committees, each with a radio button for selection. The committees listed include:

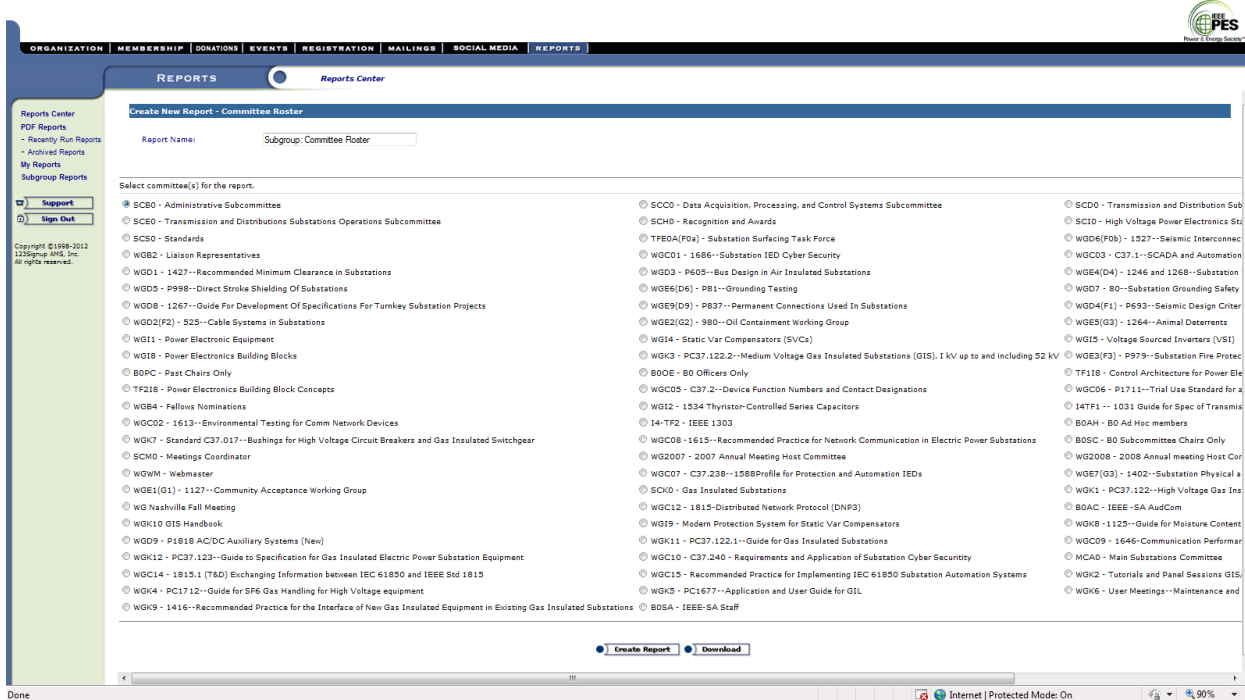
- SCB0 - Administrative Subcommittee
- SCE0 - Transmission and Distributions Substations Operations Subcommittee
- SCS0 - Standards
- WG82 - Liaison Representatives
- WG1 - 1427--Recommended Minimum Clearance in Substations
- WG05 - P998--Direct Stroke Shielding Of Substations
- WG08 - 1267--Guide For Development Of Specifications For Turnkey Substation Projects
- WG02(F2) - 525--Cable Systems in Substations
- WG11 - Power Electronic Equipment
- WG18 - Power Electronics Building Blocks
- BOPC - Past Chairs Only
- TF218 - Power Electronics Building Block Concepts
- WG84 - Fellows Nominations
- WG02 - 1613--Environmental Testing for Comm Network Devices
- WGK7 - Standard C37.017--Bushings for High Voltage Circuit Breakers and Gas Insulated Switchgear
- SCM0 - Meetings Coordinator
- WGEM - Webmaster
- WGE1(G1) - 1127--Community Acceptance Working Group
- WG Nashville Fall Meeting
- WGK10 GIS Handbook
- WG09 - P1818 AC/DC Auxiliary Systems (New)
- WGK12 - PC37.123--Guide to Specification for Gas Insulated Electric Power Substation Equipment
- WG14 - 1815.1 (T&D) Exchanging Information between IEC 61850 and IEEE Std 1815
- WGK4 - PC1712--Guide for SF6 Gas Handling for High Voltage equipment
- WGK9 - 1416--Recommended Practice for the Interface of New Gas Insulated Equipment in Existing Gas Insulated Substations
- SCD0 - Data Acquisition, Processing, and Control Systems Subcommittee
- SC4D - Recognition and Awards
- TF60A(F0a) - Substation Surfacing Task Force
- WG01 - 1686--Substation IED Cyber Security
- WG03 - P605--Bus Design in Air Insulated Substations
- WGE6(D6) - P811--Grounding Testing
- WGE9(D9) - P837--Permanent Connections Used In Substations
- WG2(G2) - 980--Oil Containment Working Group
- WG14 - Static Var Compensators (SVCs)
- WGK3 - PC37.122.2--Medium Voltage Gas Insulated Substations (GIS), 1 KV up to and including 52 KV
- BOOE - BO Officers Only
- WG05 - C37.2--Device Function Numbers and Contact Designations
- WG12 - 1534 Thyristor-Controlled Series Capacitors
- 14-TF2 - IEEE 1303
- WG08 - 1615--Recommended Practice for Network Communication in Electric Power Substations
- WG2007 - 2007 Annual Meeting Host Committee
- WG07 - C37.238--1588Profile for Protection and Automation IEDs
- SC0 - Gas Insulated Substations
- WG12 - 1815-Distributed Network Protocol (DNP3)
- WG19 - Modern Protection System for Static Var Compensators
- WGK11 - PC37.122.1--Guide for Gas Insulated Substations
- WG10 - C37.240 - Requirements and Application of Substation Cyber Security
- WG15 - Recommended Practice for Implementing IEC 61850 Substation Automation Systems
- WGK5 - PC1677--Application and User Guide for GIL
- BOSA - IEEE-SA Staff
- SCD0 - Transmission and Distribution Sub
- SC10 - High Voltage Power Electronics St
- WG06(F06) - 1527--Seismic Interconnec
- WG03 - C37.1--SCADA and Automation
- WG64(D4) - 1246 and 1268--Substation
- WG07 - 80--Substation Grounding Safety
- WG04(F1) - P693--Seismic Design Criter
- WGES(G3) - 1264--Animal Deterrents
- WG15 - Voltage Sourced Inverters (VSI)
- WGE3(F3) - P979--Substation Fire Protec
- TF118 - Control Architecture for Power Ele
- WG06 - P1711--Trial Use Standard for a
- 14TF1 - 1031 Guide for Spec of Transmis
- BOAH - BO Ad Hoc members
- BOSC - BO Subcommittee Chairs Only
- WG2008 - 2008 Annual meeting Host Cor
- WG07(G3) - 1402--Substation Physical a
- WGK1 - PC37.122--High Voltage Gas Ins
- BSAC - IEEE-SA AudCom
- WGK8 - 1125--Guide for Moisture Content
- WG09 - 1646--Communication Performa
- MCAO - Main Substations Committee
- WGK2 - Tutorials and Panel Sessions GIS
- WGK6 - User Meetings--Maintenance and

At the bottom of the list, there are buttons for "Create Report" and "Download".

The default is “Subgroup Committee Roster”. If another choice is desired select the link Subgroup Reports in the left hand column.



Choose Committee Roster or Meeting Attendance



Select the desired committee (SC/WG/TF), edit the name of the report in the box at the top of the page, and choose Create Report (creates a PDF file on the 123SignUp site) or Download (creates a CSV formatted file that can be opened or saved locally). Once a report is selected, it is created by the AM System.

Select the radio button for the report you generated and click on Refresh. Once the circle to the right turns green, the report is created it may then be viewed by clicking on the underlined report name.

REPORTS Recently Run Reports

To view reports, they must have the status of Complete. Click the report name or View to display the report. The information will be displayed with the values separated by comma's. Click the Delete button to remove the report from the list.

Date	Report Name	Category	Author	Status
May 19, 7:47 A	Subgroup: WG D5 Committee Roster	Subgroup	BobNowell	●
May 18, 10:42 P	Subgroup: Committee Roster	Subgroup	RichardKeil	●
May 18, 5:05 P	Subgroup: B0 Committee Roster	Subgroup	JosephGravelle	●
May 18, 5:03 P	Subgroup: D0 Subcommittee Roster	Subgroup	JosephGravelle	●
May 18, 5:02 P	Subgroup: D9 Committee Roster	Subgroup	JosephGravelle	●
May 18, 4:56 P	Subgroup: Committee Roster	Subgroup	JosephGravelle	●
May 18, 4:54 P	Subgroup: E0 Subcommittee Roster	Subgroup	JosephGravelle	●
May 18, 2:11 P	Subgroup: Committee Roster	Subgroup	JamesSosinski	●
May 18, 11:53 A	E5 WG Roster	Subgroup	JohnRandolph	●
May 18, 11:46 A	Subgroup: Committee Roster	Subgroup	DennisDeCosta	●

Status Definition

- This report has been completed and ready for view.
- This report is being created.
- This report has failed.

Below is a screen print of the PDF report generated for Working Group D5:

IEEE PES Substations Committee
W6D5 - P998--Direct Stroke Shielding Of Substations

Place / Date of meeting : _____

Initial box to denote attendance	Name / Role	Company Name / Email	City / State / Country	Checkbox to request membership
<input type="checkbox"/>	Abdallah, Hanna Corresponding Member	Power Engineers hanna.abdallah@powereng.com	Phoenix AZ, USA	
<input type="checkbox"/>	Andries, Scott Guest	ABB scott.andries@us.abb.com	Raleigh NC, USA	<input type="checkbox"/>
<input type="checkbox"/>	Arnot, Stan Guest	SJA Engineering santr@sympatico.ca	Oakville ON, Canada	<input type="checkbox"/>
<input type="checkbox"/>	Barac, Radoslav Member	General Electric Company radoslav.barac@ge.com	Park Ridge IL, USA	
<input type="checkbox"/>	Barnes, Thomas Member	Allen & Hoshall, Inc tom.barnes@comcast.net	Hendersonville TN, USA	
<input type="checkbox"/>	Baron, Jeffrey Guest	Alstom	Canton OH, USA	<input type="checkbox"/>
<input type="checkbox"/>	Bashirian, Hassein Member	Southern Company Services hbashir@southernco.com	Forest Park GA, USA	
<input type="checkbox"/>	Bell, Joseph Guest	Pacificorp joe.bell@pacificorp.com	Portland OR, USA	<input type="checkbox"/>
<input type="checkbox"/>	Bernadas II, Louis Guest	Entergy Corp lbernas@entergy.com	New Orleans LA, USA	<input type="checkbox"/>
<input type="checkbox"/>	Beske, Bryan Member	American Transmission Company bbeske@atcflc.com	Madison WI, USA	
<input type="checkbox"/>	Boling, Dale Guest	ERICO, Inc. dboling@erico.com	Solon OH, USA	<input type="checkbox"/>
<input type="checkbox"/>	Brown, Steven Guest	Allen & Hoshall, Inc. stevendbrown@iee.org	Bartlett TN, USA	<input type="checkbox"/>

19 May 2012 7:5 AM
Subgroup: WG D5 Committee Roster

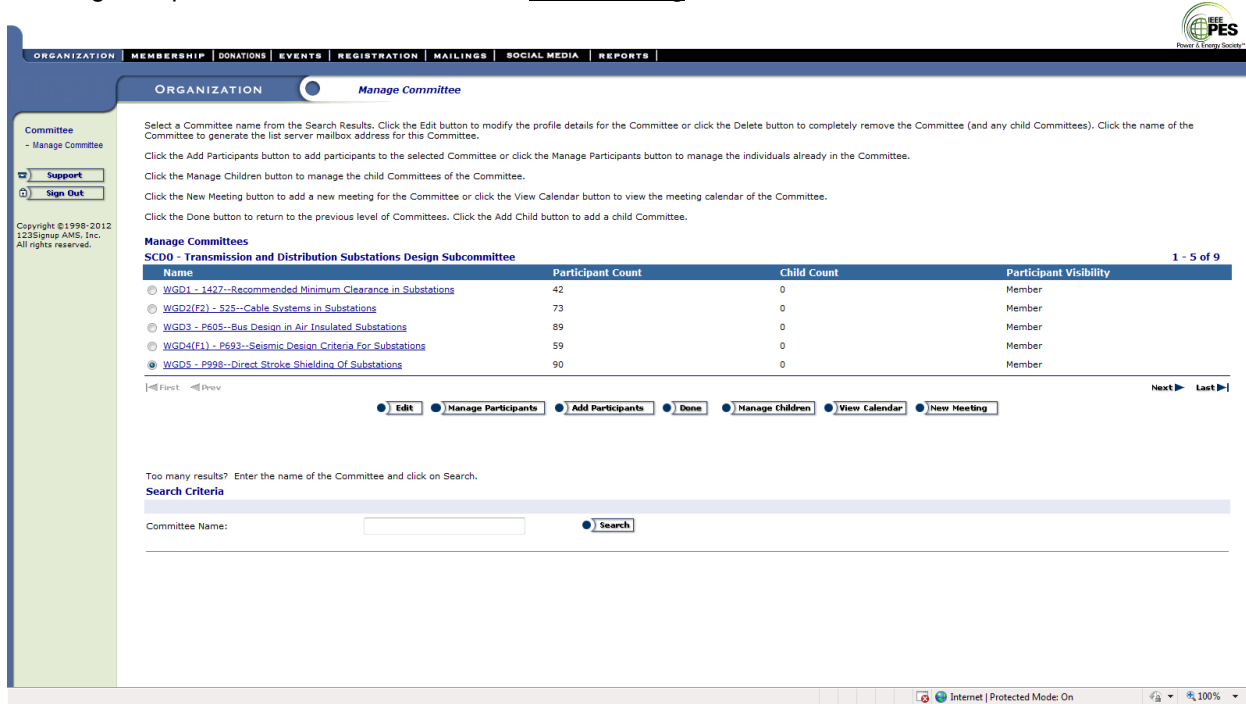
Page 1 of 7

This roster does not include extensive contact information (snail-mail addresses, phone/fax numbers, etc). It is no longer necessary for individual activity chairs to maintain that information as it is now self-maintained by individual participants.

RECORDING MEETING ATTENDANCE

Attendance at individual activity meetings can be recorded.

To do this: While working in the Manage Committees portion of the AM System, select a particular Subcommittee, Working Group, or Task Force, and click on New Meeting.



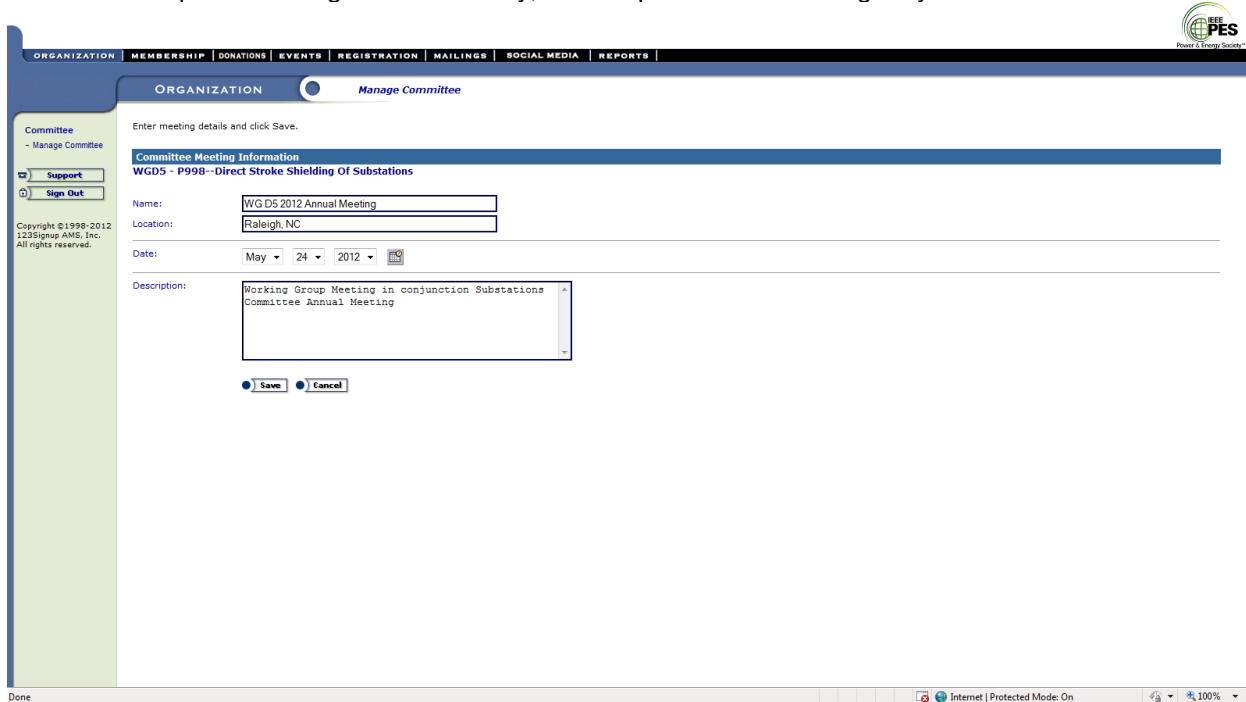
The screenshot shows the 'Manage Committee' page in the AM System. The page title is 'ORGANIZATION Manage Committee'. The main content area displays a list of committees under the heading 'Manage Committees'. The selected committee is 'SCD0 - Transmission and Distribution Substations Design Subcommittee', which is page 1 of 9. The table below shows the following data:

Name	Participant Count	Child Count	Participant Visibility
WG01 - 1427--Recommended Minimum Clearance in Substations	42	0	Member
WG02(F2) - 525--Cable Systems in Substations	73	0	Member
WG03 - P605--Bus Design in Air Insulated Substations	89	0	Member
WG04(F1) - P693--Seismic Design Criteria For Substations	59	0	Member
WG05 - P998--Direct Stroke Shielding Of Substations	90	0	Member

Navigation buttons include: Edit, Manage Participants, Add Participants, Done, Manage Children, View Calendar, and New Meeting. A search bar is located below the table with the text 'Too many results? Enter the name of the Committee and click on Search.' and a 'Search' button.

Complete the required information as follows:

- Name: Suggest "2012 Annual Meeting" or similar
- Place: Suggest "Raleigh" or similar
- Description: Although not necessary, a description of the meeting may be added.



The screenshot shows the 'Committee Meeting Information' form. The form title is 'ORGANIZATION Manage Committee'. The main content area displays the following information:

Enter meeting details and click Save.

Committee Meeting Information
WG05 - P998--Direct Stroke Shielding Of Substations

Name: WG D5 2012 Annual Meeting
Location: Raleigh, NC
Date: May 24, 2012
Description: Working Group Meeting in conjunction Substations Committee Annual Meeting

Buttons: Save, Cancel

Once the information is added, click on Save.



ORGANIZATION MEMBERSHIP DONATIONS EVENTS REGISTRATION MAILINGS SOCIAL MEDIA REPORTS

ORGANIZATION **Manage Committee**

Committee - Manage Committee

Support Sign Out

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Select a Committee name from the Search Results. Click the Edit button to modify the profile details for the Committee or click the Delete button to completely remove the Committee (and any child Committees). Click the name of the Committee to generate the list server mailbox address for this Committee.

Click the Add Participants button to add participants to the selected Committee or click the Manage Participants button to manage the individuals already in the Committee.

Click the Manage Children button to manage the child Committees of the Committee.

Click the New Meeting button to add a new meeting for the Committee or click the View Calendar button to view the meeting calendar of the Committee.

Click the Done button to return to the previous level of Committees. Click the Add Child button to add a child Committee.

Manage Committees

SCD0 - Transmission and Distribution Substations Design Subcommittee 1 - 5 of 9

Name	Participant Count	Child Count	Participant Visibility
WGD1 - 1427--Recommended Minimum Clearance in Substations	42	0	Member
WGD2(F2) - 525--Cable Systems in Substations	73	0	Member
WGD3 - P605--Bus Design in Air Insulated Substations	89	0	Member
WGD4(F1) - P693--Seismic Design Criteria For Substations	59	0	Member
WGD5 - P998--Direct Stroke Shielding Of Substations	90	0	Member

« First « Prev [Edit] [Manage Participants] [Add Participants] [Done] [Manage Children] [View Calendar] [New Meeting] Next » Last »

Too many results? Enter the name of the Committee and click on Search.

Search Criteria

Committee Name: [Search]

Internet | Protected Mode: On

After the meeting (or when the opportunity arises), click on View Calendar, select the desired meeting, and select Record Attendance. You may also enter past meetings if desired to record historical attendance and track participation. In the screen print below the meeting Total Attendance is displayed for each meeting saved. Notice the last meeting in the list shows 0 as this has not been recorded yet.



ORGANIZATION MEMBERSHIP DONATIONS EVENTS REGISTRATION MAILINGS SOCIAL MEDIA REPORTS

ORGANIZATION **Manage Committee**

Committee - Manage Committee

Support Sign Out

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Click the Edit button to modify an existing meeting or click the Delete button to remove a meeting from the calendar. Click the Copy button to create a new meeting from an existing meeting. Click the Record Attendance button to capture individual attendance at the meeting.

WGDS - P998--Direct Stroke Shielding Of Substations Meetings

Meeting Date	Name	Location	Total Attendee
Apr 13, 2005	DS Working Group Meeting at 2005 Substations Committee Annual Meeting	Tampa, FL	15
Apr 11, 2006	DS Working Group Meeting at 2006 Substations Committee Annual Meeting	Scottsdale, AZ	34
Oct 25, 2006	DS Working Group Meeting at 2006 D Working Groups Fall Meetings	Nashville, TN	28
Apr 17, 2007	DS Working Group Meeting at 2007 Substations Committee Annual Meeting	Bellevue, WA	49
Oct 23, 2007	Working Group DS Meeting at 2007 D Working Groups Fall Meeting	Nashville, TN	35
Apr 09, 2008	DS Working Group Meeting at 2008 Substations Committee Annual Meeting	San Francisco, CA	48
Oct 20, 2008	Working Group DS Meeting at 2008 D Working Groups Fall Meeting	Nashville, TN	38
Jan 15, 2009	DS Working Group Meeting at 2009 JTCM	Atlanta, Georgia	22
May 19, 2009	DS Working Group at 2009 Substations Committee Annual Meeting	Kansas City, MO	39
Oct 19, 2009	2009 Nashville Meeting	Radisson Opryland	32
Mar 26, 2010	Internal Mail Ballot of P998 Draft 5	E-mail	24
May 20, 2010	DS Working Group Meeting at 2010 Substations Committee Annual Meeting	Montreal, Quebec, Canada	33
Aug 31, 2010	Internal Ballot Continuation from Montreal Meeting	E-Mail	17
Oct 18, 2010	2010 Fall Meeting	Radisson Opryland, Nashville, TN	30
Nov 29, 2010	Internal Ballot (Post Nashville)	E-mail	30
Jan 10, 2011	Working Group Meeting at Winter JTCM	Atlanta, GA	13
Feb 11, 2011	Internal Ballot (Post Atlanta Meeting)	E-Mail	26
May 17, 2011	2011 Annual Meeting	Chicago, IL	43
Oct 19, 2011	WG DS 2011 Fall Meeting	Nashville, TN	34
Dec 10, 2011	Electronic Internal Ballot on Purpose	E-mail	18
Jan 10, 2012	2012 JTCM WG DS Meeting	Garden Grove, CA	26
Jan 28, 2012	Electronic Ballot on Purpose Statement Revision	E-Mail	21
Mar 06, 2012	2012 JTCM Motion #1	Internet	28
Mar 30, 2012	Electronic Ballot (Three part on BRC Responses)	Internet	26
May 24, 2012	WG DS Annual Meeting	Raleigh, NC	0

« Back [Edit] [Copy] [Delete] [Record Attendance]

Done Internet | Protected Mode: On

After selecting Record Attendance the screen below appears:

ORGANIZATION | MEMBERSHIP | DONATIONS | EVENTS | REGISTRATION | MAILINGS | SOCIAL MEDIA | REPORTS

ORGANIZATION **Manage Committee**

Committee - Manage Committee

Support Sign Out

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To begin your search, complete one or more of the following Search Criteria fields. The combination of information you provide is used to search members. Click the Search button to view the list of members.

Search Criteria
Record Committee Meeting Attendance
WG D5 2012 Annual Meeting

First/Given Name:
 Last/Family/Surname:
 Company Name:
 City:
 State/Province:
 Country:
 Primary Email:
 Secondary Email:

Done Internet | Protected Mode: On 100%

Select the Search button and all of the roster of this WG (in this case 90) are displayed on sequential pages:

ORGANIZATION | MEMBERSHIP | DONATIONS | EVENTS | REGISTRATION | MAILINGS | SOCIAL MEDIA | REPORTS

ORGANIZATION **Manage Committee**

Committee - Manage Committee

Support Sign Out

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Check the Attended box if the individual came to the meeting. Your changes will be saved whenever you move between pages or click the Save button. Click Undo if you have made changes on a page and want to view the page as it was before you made the changes.

Search Results 1 - 15 of 90
Record Committee Meeting Attendance
WG D5 2012 Annual Meeting

Attended	Last	First	Email	Company
<input type="checkbox"/>	Abdallah	Hanna	hanna.abdallah@powereng.com	Power Engineers
<input type="checkbox"/>	Andries	Scott	scott.andries@us.abb.com	ABB
<input type="checkbox"/>	Arnot	Stan	santro@sympatico.ca	SJA Engineering
<input type="checkbox"/>	Barac	Radoslav	radoslav.barac@ge.com	General Electric Company
<input type="checkbox"/>	Barnes	Thomas	tom.barnes@comcast.net	Allen & Hoshall, Inc
<input type="checkbox"/>	Baron	Jeffrey		Alstom
<input type="checkbox"/>	Bashirian	Hassain	hbashiri@southernco.com	Southern Company Services
<input type="checkbox"/>	Bell	Joseph	joe.bell@pacificorp.com	Pacificorp
<input type="checkbox"/>	Bernadas II	Louis	lbermad@entergy.com	Entergy Corp
<input type="checkbox"/>	Beske	Bryan	bbeske@atcllc.com	American Transmission Company
<input type="checkbox"/>	Boling	Dale	dboling@erico.com	ERICO, Inc.
<input type="checkbox"/>	Brown	Steven	stevenbrown@ieee.org	Allen & Hoshall, Inc.
<input type="checkbox"/>	Bykadorov	Anatoliy	anatoliy.bykadorov@polymtl.ca	ATESCO Inc.
<input type="checkbox"/>	Cain	James	brian.cain@stantec.com	Stantec Consulting Services, Inc
<input type="checkbox"/>	Cardenas	Jorge	jorge.cardenas@comed.com	Commonwealth Edison Company

First Prev Next Last

Search results unsuccessful? Click on New Search to search again.

Done Internet | Protected Mode: On 100%

Select the checkbox next to a participant's name to record attendance.

Attendance reports are available ONLY as a download. Select the Reports tab at the top of the page.

REPORTS Recently Run Reports

To view reports, they must have the status of Complete. Click the report name or View to display the report. The information will be displayed with the values separated by comma's. Click the Delete button to remove the report from the list.

Date	Report Name	Category	Author	Status
May 19, 7:47 A	Subgroup: WG D5 Committee Roster	Subgroup	BobNowell	●
May 18, 10:42 P	Subgroup: Committee Roster	Subgroup	RichardKeil	●
May 18, 5:05 P	Subgroup: B0 Committee Roster	Subgroup	JosephGravelle	●
May 18, 5:03 P	Subgroup: D0 Subcommittee Roster	Subgroup	JosephGravelle	●
May 18, 5:02 P	Subgroup: D9 Committee Roster	Subgroup	JosephGravelle	●
May 18, 4:56 P	Subgroup: Committee Roster	Subgroup	JosephGravelle	●
May 18, 4:54 P	Subgroup: E0 Subcommittee Roster	Subgroup	JosephGravelle	●
May 18, 2:11 P	Subgroup: Committee Roster	Subgroup	JamesSoiniski	●
May 18, 11:53 A	FS WG Roster	Subgroup	JohnRandolph	●
May 18, 11:46 A	Subgroup: Committee Roster	Subgroup	DennisDeCosta	●

Note: All times listed are in PST.

Navigation: << Prev View Delete Refresh Next >>

Status Definition

- This report has been completed and ready for view.
- This report is being created.
- This report has failed.

Select Subgroup Reports in the left hand column. Then choose Meeting Attendance. Choose the desired SC, WG, or TF.

REPORTS Reports Center

Create New Report - Meeting Attendance

Select committee(s) for the report.

<input type="checkbox"/> SC80 - Administrative Subcommittee	<input type="checkbox"/> SC20 - Data Acquisition, Processing, and Control Systems Subcommittee	<input type="checkbox"/> SC20 - Transmission and Distribution Substations Design Subcommittee
<input type="checkbox"/> SC80 - Transmission and Distribution Substations Operations Subcommittee	<input type="checkbox"/> SC40 - Recognition and Awards	<input type="checkbox"/> SC30 - High Voltage Power Electronics Stations
<input type="checkbox"/> SC80 - Standards	<input type="checkbox"/> TF80(A/F04) - Substation Surface Task Force	<input type="checkbox"/> WG26(F06) - 1527-Seminar Interconnection
<input type="checkbox"/> WG25 - Union Representatives	<input type="checkbox"/> WG203 - 1686-Substation IED Cyber Security	<input type="checkbox"/> WG203 - C37.1-SCADA and Automation Systems
<input type="checkbox"/> WG25 - 1427-Recommended Minimum Clearance in Substations	<input type="checkbox"/> WG203 - P605-Bus Design in Air Insulated Substations	<input type="checkbox"/> WG24(D4) - 1246 and 1268-Substation Safety
<input type="checkbox"/> WG25 - P996-Direct Stroke Shielding Of Substations	<input type="checkbox"/> WG26(D6) - P81-Grounding Testing	<input type="checkbox"/> WG27 - 80-Substation Grounding Safety
<input type="checkbox"/> WG28 - 1267-Guide For Development Of Specifications For Turnkey Substation Projects	<input type="checkbox"/> WG28(D8) - P837-Permanent Connections Used In Substations	<input type="checkbox"/> WG24(F1) - P623-Seismic Design Criteria For Substations
<input type="checkbox"/> WG22(F2) - 525-Cable Systems in Substations	<input type="checkbox"/> WG22(G2) - 980-Oil Containment Working Group	<input type="checkbox"/> WG25(G3) - 1264-Animal Deterrents
<input type="checkbox"/> WG21 - Power Electronic Equipment	<input type="checkbox"/> WG24 - Static Var Compensators (SVCs)	<input type="checkbox"/> WG15 - Voltage Sourced Inverters (VSI)
<input type="checkbox"/> WG28 - Power Electronics Building Blocks	<input type="checkbox"/> WG43 - PC37.122.2-Medium Voltage Gas Insulated Substations (GIS), 1 kV up to and including 52 kV	<input type="checkbox"/> WG3(F3) - P979-Substation Fire Protection
<input type="checkbox"/> BOPC - Feed Chains Only	<input type="checkbox"/> BOGE - BO Officers Only	<input type="checkbox"/> TF118 - Control Architecture for Power Electronics Building Blocks
<input type="checkbox"/> TF28 - Power Electronics Building Block Concepts	<input type="checkbox"/> WG205 - C37.2-Device Function Numbers and Contact Designations	<input type="checkbox"/> WG206 - P1711-Title Use Standard for a Cryptographic Protocol for Cyber Security of Substation Serial Links
<input type="checkbox"/> WG25 - Fellow Nominations	<input type="checkbox"/> WG22 - 1534-Physically-Controlled Series Capacitors	<input type="checkbox"/> 14772 - 1031-Guide For Spec of Transmission SVC
<input type="checkbox"/> WG22 - 1613-Environmental Testing for Comm Network Devices	<input type="checkbox"/> 16-792 - IEEE 1303	<input type="checkbox"/> BO44 - BO 44 Nominations
<input type="checkbox"/> WG27 - Standard C37.017-Buildings for High-Voltage Circuit Breakers and Gas Insulated Switchgear	<input type="checkbox"/> WG208 - 1615-Recommended Practice for Network Communication in Electric Power Substations	<input type="checkbox"/> BO5C - BO Subcommittee Chairs Only
<input type="checkbox"/> SC40 - Meetings Coordinator	<input type="checkbox"/> WG2007 - 2007 Annual Meeting Host Committee	<input type="checkbox"/> WG2008 - 2008 Annual Meeting Host Committee
<input type="checkbox"/> WG4M - Webmaster	<input type="checkbox"/> WG2007 - C37.128-1588Profile for Protection and Automation IEDs	<input type="checkbox"/> WG27(G3) - 1402-Substation-Physical and Electronic Security
<input type="checkbox"/> WG21(G1) - 1127-Community Acceptance Working Group	<input type="checkbox"/> SC40 - Gas Insulated Substations	<input type="checkbox"/> WG41 - PC37.122-High Voltage Gas Insulated Substations Rated Above 52kV
<input type="checkbox"/> WG Nashville Fall Meeting	<input type="checkbox"/> WG212 - 1815-Distributed Network Protocol (DNP3)	<input type="checkbox"/> BO4C - IEEE-SA AudCom
<input type="checkbox"/> WG10 GIS Handbook	<input type="checkbox"/> WG28 - Modern Protection System for Static Var Compensators	<input type="checkbox"/> WG48 - 1125-Guide for Moisture Content and Control in SF6 Gas Insulated equipment
<input type="checkbox"/> WG29 - P1818 AC/DC Auxiliary Systems (New)	<input type="checkbox"/> WG11 - PC37.122.1-Guide for Gas Insulated Substations	<input type="checkbox"/> WG209 - 1646-Communication Performance
<input type="checkbox"/> WG12 - PC37.123-Guide to Specification for Gas Insulated Electric Power Substation Equipment	<input type="checkbox"/> WG10 - C37.240 - Requirements and Application of Substation Cyber Security	<input type="checkbox"/> HCA0 - Main Substations Committee
<input type="checkbox"/> WG14 - 1815.1 (T&D) Exchanging Information between IEC 61850 and IEEE Std 1815	<input type="checkbox"/> WG15 - Recommended Practice for Implementing IEC 61850 Substation Automation Systems	<input type="checkbox"/> WG42 - Tutorials and Panel Sessions GIS/GIL/SF6
<input type="checkbox"/> WG4 - PC112-Guide for SF6 Gas Handling for High Voltage equipment	<input type="checkbox"/> WG45 - PC1677-Application and User Guide for GIL	<input type="checkbox"/> WG16 - User Meetings--Maintenance and Operation of GIS
<input type="checkbox"/> WG49 - 1416-Recommended Practice for the Interface of New Gas Insulated Equipment in Existing Gas Insulated Substations	<input type="checkbox"/> BO5A - IEEE-SA Staff	

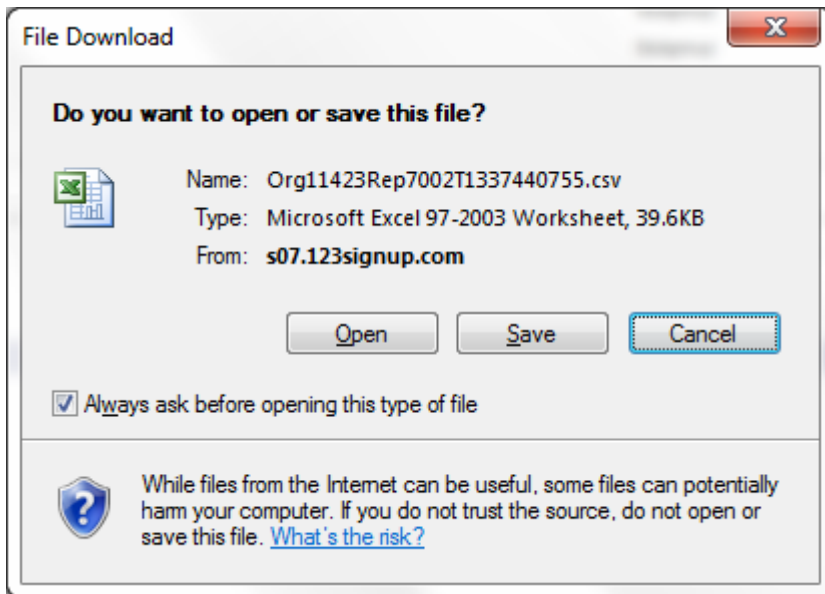
Select a time period for the report.

Date From: Jan 19 2005

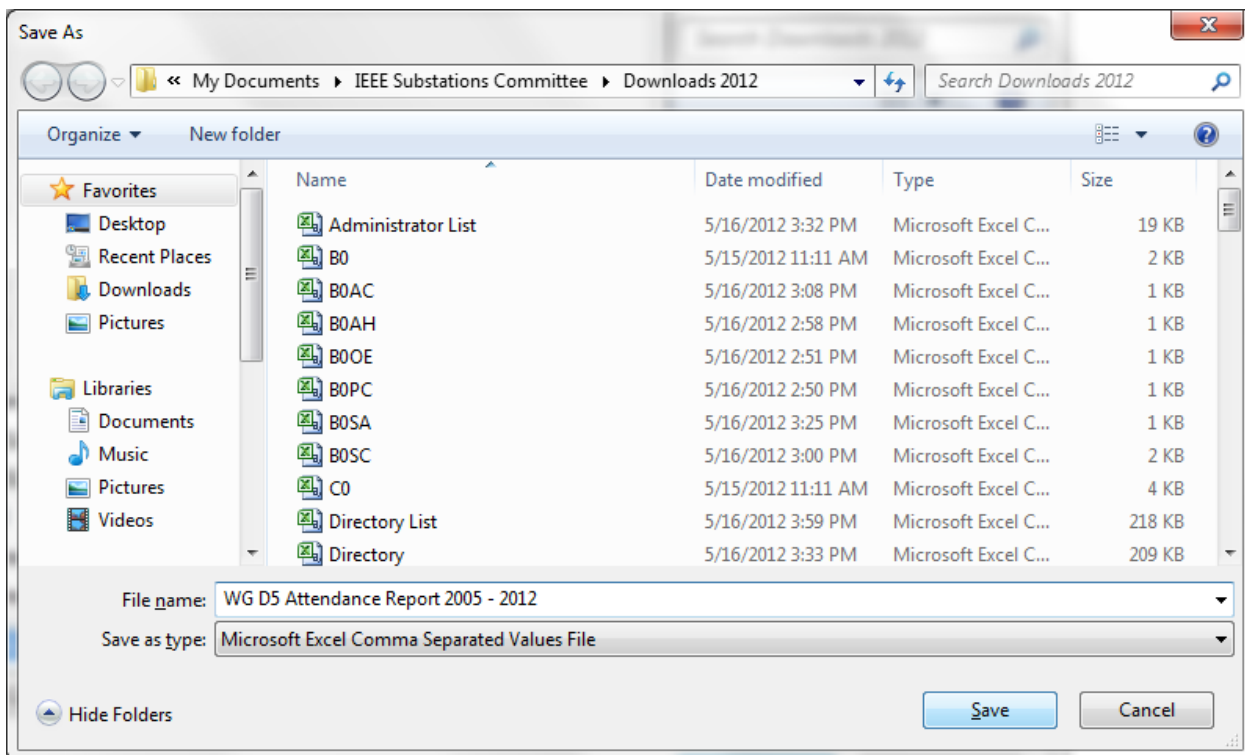
Date To: Jun 19 2012

Download

It is useful to regenerate this download for ALL meetings each time it is exercised but is not necessary. Notice the Date From date is January 1, 2005. The system was inaugurated in early 2005. Select Download (some users may have to depress the CTRL key while the download generates).



Save the file to a secure location with perhaps a more meaningful file name.



Below is a screen print of the downloaded report:

Subgroup Name	123Mem	Members	Role	Participat	Type	First Nam	Last Name	Email	Company	City	State	Country	IEEE Mem	4/13/2005	4/11/2006	10/25/2006	4/17/2007	10/23/2007	4/8/
WGDS - P998--Direct Stroke Shielding Of Substations	1003042	Active	Correspor	Active	Committe	Hanna	Abdallah	hanna.abc	Power Enj	Phoenix	AZ	USA	Yes	X	X	X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003047	Active	Guest	Terminat	Active Par	Ken	Aldridge	kaldridge@	R.W. Beck	Goodletts	TN	USA	Yes	X	X	X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003052	Active	Member	Terminat	Interestec	John	Anderson		Power Te	Schenecta	NY	USA							
WGDS - P998--Direct Stroke Shielding Of Substations	1003061	Active	Member	Active	Committe	Thomas	Barnes	tom.barn	Allen & H	Henderso	TN	USA	Yes	X	X			X	
WGDS - P998--Direct Stroke Shielding Of Substations	1003078	Terminat	Member	Terminat	Interestec	Michael J.	Bogdan	bogdanm	Niagara M	Syracuse	NY	USA							
WGDS - P998--Direct Stroke Shielding Of Substations	1003082	Active	Guest	Active	Active Par	Dale	Boling	dboling@	ERICO, In	Solon	OH	USA	Yes					X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003090	Terminat	Guest	Terminat	Active Par	R. Steve	Brown	r.steve	bc Puget Sou	Bellevue	WA	USA		X					
WGDS - P998--Direct Stroke Shielding Of Substations	1003091	Terminat	Member	Terminat	Active Par	Richard	Brown		AVO Inter	Valley For	PA	USA							
WGDS - P998--Direct Stroke Shielding Of Substations	1003092	Active	Guest	Active	Committe	Steven	Brown	stevendr	Allen & H	Bartlett	TN	USA	Yes	X				X	
WGDS - P998--Direct Stroke Shielding Of Substations	1003103	Terminat	Correspor	Terminat	Active Par	Bill	Carman	bcarmang	Safeearth	E Wallsend		Australia				X			
WGDS - P998--Direct Stroke Shielding Of Substations	1003106	Active	Guest	Terminat	Active Par	Chris	Chadbour	chris.chad	FCI USA, In	Manchest	NH	USA	Yes						X
WGDS - P998--Direct Stroke Shielding Of Substations	1003107	Active	Member	Active	Active Par	K. S.	Chan	kschan@	Bechtel	Houston	TX	USA	Yes			X		X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003115	Active	Member	Active	Committe	Randy	Clelland	randy.clel	BC Hydro	Burnaby	BC	Canada					X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003129	Active	Member	Active	Committe	Dennis	DeCosta	dfdecosta	Common	Jackson	MI	USA	Yes		X	X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003134	Terminat	Guest	Terminat	Active Par	E. Pieter	Dick	peter.dick	Kinectrics	Toronto	ON	Canada							
WGDS - P998--Direct Stroke Shielding Of Substations	1003137	Active	Guest	Terminat	Committe	W. Bruce	Dietzman	w.b.dietz	Oncor Ele	Fl. Worth	TX	USA	Yes			X		X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003137	Active	Member	Active	Committe	W. Bruce	Dietzman	w.b.dietz	Oncor Ele	Fl. Worth	TX	USA	Yes			X		X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003144	Active	Correspor	Terminat	Interestec	Edgar	Taylor			Pittsburg	PA	USA							
WGDS - P998--Direct Stroke Shielding Of Substations	1003148	Active	Member	Active	Life Comm	Gary	Engmann	g.engman	Burns & M	Leawood	KS	USA	Yes	X	X	X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003150	Active	Guest	Active	Committe	Markus	Etter	markus.e	ABB Inc.	Princeton	NJ	USA	Yes						
WGDS - P998--Direct Stroke Shielding Of Substations	1003152	Active	Member	Terminat	Active Par	Dennis R.	Falkenhei	Dennis_F	Illinois Po	Decatur	IL	USA							
WGDS - P998--Direct Stroke Shielding Of Substations	1003166	Active	Member	Active	Committe	D. Lane	Garrett	dgarret@	Southern	Birmingham	AL	USA	Yes	X	X	X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003172	Active	Member	Terminat	Active Par	Barry M.	Gore	bm gore@	Tennessee	Chattano	TN	USA	Yes						
WGDS - P998--Direct Stroke Shielding Of Substations	1003174	Active	Member	Terminat	Active Par	Ken	Graham	kenny.gra	Dominion	Richmond	VA	USA	No						
WGDS - P998--Direct Stroke Shielding Of Substations	1003177	Active	Member	Active	Active Par	Steve	Greenfiel	sgreenfiel	Erico, Inc.	West Palm	FL	USA	Yes	X	X			X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003191	Active	Guest	Terminat	Life Comm	David	Harris	dharris@	SPX Trans	Waukesh	WI	USA	Yes						
WGDS - P998--Direct Stroke Shielding Of Substations	1003194	Active	Secretary	Active	Committe	Martin	Havelka	mhavelka	Erico, Inc.	Solon	OH	USA	No		X	X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003219	Active	Guest	Terminat	Active Par	Daniel	Jendek	daniel.jer	Hydro On	Toronto	ON	Canada	Yes						
WGDS - P998--Direct Stroke Shielding Of Substations	1003230	Active	Guest	Terminat	Active Par	William	Kahane	bil.kahan	Bluebonn	Giddings	TX	USA	Yes	X					
WGDS - P998--Direct Stroke Shielding Of Substations	1003233	Active	Member	Terminat	Active Par	Jim	Kasper	jkasper@	ERICO INC	Cleveland	OH	USA							
WGDS - P998--Direct Stroke Shielding Of Substations	1003235	Active	Member	Active	Committe	Richard	Keil	rpkeil@	ca Common	Dayton	OH	USA	Yes					X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003236	Active	Member	Active	Committe	Dave	Kelley	dave.kell	e Salt River	Phoenix	AZ	USA	Yes			X	X	X	X
WGDS - P998--Direct Stroke Shielding Of Substations	1003241	Active	Member	Terminat	Active Par	Alan	King	alan.king	e BC Hydro	Burnaby	BC	Canada							
WGDS - P998--Direct Stroke Shielding Of Substations	1003242	Active	Guest	Active	Committe	Hermann	Koch	hermann.	Siemens J	Erlangen	Other	Germany	Yes						
WGDS - P998--Direct Stroke Shielding Of Substations	1003244	Active	Correspor	Terminat	Committe	Charles	Koenig	ckoenig@	Ameren S	St. Louis	MO	USA	Yes	X					
WGDS - P998--Direct Stroke Shielding Of Substations	1003245	Active	Guest	Terminat	Committe	Alan	Kollar	kollara@	FirstEnerg	Akron	OH	USA	Yes		X				
WGDS - P998--Direct Stroke Shielding Of Substations	1003281	Active	Guest	Active	Committe	John	McDonald	johnd.m	c Digital	Duluth	GA	USA	Yes						
WGDS - P998--Direct Stroke Shielding Of Substations	1003284	Active	Vice-Chair	Active	Committe	Sakis	Meliopou	sakis.m@	Georgia In	Atlanta	GA	USA	Yes	X	X			X	X