



INDUSTRY APPLICATIONS SOCIETY



PULP & PAPER INDUSTRY COMMITTEE

MINUTES of the

FULL COMMITTEE

MEETING



**2003 ANNUAL FULL COMMITTEE MEETING
FRANCIS MARION HOTEL, CHARLESTON, SC
MONDAY, JUNE 16, 2003 1:00 PM**

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**IEEE/IAS PULP & PAPER INDUSTRY COMMITTEE
ANNUAL CONFERENCE MEETING
MINUTES OF THE FULL COMMITTEE**

**FRANCIS MARION HOTEL, CHARLESTON, SC
MONDAY, JUNE 16, 2003 1:00 PM**

WELCOME AND INTRODUCTIONS

Ron Simpson called the meeting to order at 1:02 PM. He welcomed everyone to Charleston and the Full committee meeting. He then asked everyone in turn to introduce him or herself. Alan Lowe circulated a meeting sign in sheet and asked all attendees to indicate their presence. He also circulated the committee roster for people to make corrections. Seventy-three committee members attended.

SECRETARY'S REPORT

Blake Lloyd announced that the minutes from the last Main Committee meeting had been sent out. A minor correction was necessary where results reported for Toronto where in fact those for Portland. With this correction recognized, a motion was made and passed to accept the minutes. Based on the minutes mailing, Blake reported the following:

Total Active Members	123
Undeliverable Emails	3

The significantly reduced email returns are a credit to the work of Jim Rooks and others in updating the email list. Please keep your email addresses up to date by sending changes to Alan Lowe.

EXECUTIVE COMMITTEE REPORT

Blake Lloyd reported that 18 members were in attendance at the Executive Committee meeting. The meeting started at 6PM Sunday evening and adjourned at 7:30PM and dealt with issues regarding falling attendance.

2002 TORONTO CONFERENCE REPORT

John Kay reported he was proud to be representing the Toronto planning committee and to provide to this committee the following final report for the 2002 conference. The threats of 9/11 and the continued digression within the pulp and paper industry did have some impact on ability to meet the planned number of participants. The reduced number of participants resulted in a significant shortfall of hotel room nights. This in turn resulted in a penalty imposed by the hotel. The Conference paid ½ of the penalty with the IAS and the Toronto Section the rest.

TREASURER REPORT/CONFERENCE AUDITS

Dave Durocher reported that the both the Portland and Toronto conferences used the recommended 13-step process for audits and that the committee is satisfied with activities by both local conference committees. The Portland Conference made \$27K, 1/3rd of which was returned to the local IAS Chapter. These funds are being used to establish grant monies for two local Universities (Oregon State University and Portland State University) to further the Power Engineering disciplines. The Toronto conference lost money, driven primarily to payment of penalties from the hotel due to missing our room-night commitments.

STANDING SUBCOMMITTEE REPORTS

MEMBERSHIP

Alan Lowe reported that our current committee membership is 123. Since the interim meeting in September we have had the following changes in membership: One (1) new member (Rob Dufton) and two (2) applications are pending (Tim Hoy, Universal Dynamics LTD, Gary Wetzel, S&C Electric Company).

At the interim meeting we had 42 members present, 48 members requested excused absences and 32 had unexcused absences.

A detailed Roster list of members is given in the Appendix.

Note: Roster included in these minutes of meeting reflects changes in membership which occurred at the annual conference, but which is not reflected in the above report tendered at the annual meeting.

MAILING LIST

John Kay reported that the list was updated with the corrections from the 2002 Interim meeting in Atlanta. The list now contains 1896 names. Members are encouraged to Email updates to John Kay.

PUBLICITY

Ron Mehofer reported the publicity release on the 2002 Conference held in Toronto, Canada on June 17-21 at the Sheraton Center was published in the *IEEE Industry Applications Magazine's* January/February 2003 issue. Announcements for the 2003 Conference to be held in Charleston, South Carolina on June 16-20, 2003 were sent to the various trade magazines.

PAPER AWARDS AND PUBLICATIONS

Laurie Cihlar reported on the Technical Paper Publication Status for 2002 Conference Papers:

Eight (8) papers submitted to IEEE Transactions on Industrial Applications

- All 8 papers have been published

Eleven (11) papers submitted to IAS Magazine

- 3 papers have been published
- 1 paper was used as a guest editorial

The others are on the schedule to be published in 2003. Details on the published papers are given in the Appendix.

Laurie asked that special recognition be given to the 2003 Paper Reviewers who are:

- EMMC: Larry Menche, Weyerhaeuser Co.
- PDS: Bucky Hammonds, BE&K (written)
Robert Adams, BE&K (presentation)
- TSSC: Paul Rouillier, GE Industrial Systems
- DCS: Mark Weaver, Universal Dynamics Ltd
- CBS: John Thompson, Cutler-Hammer

FELLOWS NOMINATIONS

Clayton asked for help from the committee in identifying other people who are appropriate to be nominated as IEEE Fellows. Clayton is the Award Chair for the IEEE-IAS and as such has become aware of several other IEEE awards such as Distinguished Service, Young Members, and Harold Kaufman award for with members of this group are eligible. Clayton encouraged everyone to consider nominating appropriate members of our group. Clayton will be receiving his own Fellow award at this conference.

PPIC AWARDS

Russ Thrift indicated the 2003 Conference Meritorious Service Award is to be presented to Frank P. Newman and the Meritorious Engineering Award to Patrick J. Link at the banquet. Russ encouraged every individual on the committee to recognize them and also read the write-ups on each award winner. Nominations for next year's awards need to be made by the Interim meeting.

Liaison Reports

PAPTEC (CPPA)

John Kay reported that during the last week of January of this year 11,726 participants from 25 countries experienced the various events of the 89th Annual PAPTAC technical sessions and the 45th edition of EXFOR, a product

exposition held in downtown Montreal, Quebec. PaperWeek, as it is called, provided the opportunity for high-quality exchange of science and technical information in the form of session meetings and presentations. There were 448 companies exhibiting at the EXFOR trade show exhibition held at the Palais des Congrès. In addition, the Forest Products Association of Canada (FPAC) and the Pulp and Paper Products Council (PPPC) held a number of forums open to the public. These public forums attracted additional participation at PaperWeek International.

- Number of delegates registering for the technical sessions: 998
- Number of additional EXFOR trade show visitors: 5,123
- Number of EXFOR trade show booth personnel: 4,250
- Total participants at the PAPTAC Annual Meeting: 10,371
- Countries Represented: 25 countries.
- Additional forums attracted an additional: 1,355 people,
- For a total attendance of 11,726 people!

Plans are already under way for 90th Annual Meeting of PAPTAC and the 46th edition of EXFOR. PaperWeek International 2004 will be held in Montreal next January 26-29.

IEEE/IAS

Clayton Reid reported the IAS Conference would be held in September.

TAPPI

Burt Judson reported that the he TAPPI --- PCE&I Division will meet with the Pulping Division the week of Oct 26th in Chicago at the Hyatt – downtown and the 2004 Paper Summit is in Atlanta, May 3 -5, 2004 at the GWCC (Ga World Convention Center) ---- the PCE&I will have a technical session that week as well. Then in 2005 the TAPPI --- PCE&I Div. hopes to join with our own IEEE PPIC in Jacksonville.

IEEE - STANDARDS COORDINATING

Jim Daily reported SCC 18 met on February 9 and 10 to provide voting instructions to the IEEE representatives on the NEC Code Making Panels.

One proposed change of interest to this Committee is that a proposal was accepted to limit non-shielded cable to 2400V. The proposal did receive more than the 2/3 Affirmative votes required for acceptance. Even though IEEE voted in support of the lower limitation, I expect that there will be some recommended exceptions for industrial facilities submitted during the Comment period. The main intent was to eliminate non-shielded cables over 2400 V from general commercial wiring since that is where most of the problems occur.

Another change that could impact your plants involves changes to Section 110.16, Flash Protection, that includes new requirements for the marking of switchboards, panelboards, industrial control panels, meter socket enclosures, and motor control centers. If this proposal survives the Comment stage, each of these types of equipment, which may require examination or maintenance while energized, would have to be marked with a label indicating the incident energy available, or the rating of needed protective clothing in calories per square centimeter.

A global proposal was submitted to change “grounding” to “bonding”. This would change an “equipment grounding conductor” to an “equipment-bonding conductor”. The proposal was accepted by one Panel and rejected or referred to the Technical Correlating Committee by all the other Panels. The Technical Correlating Committee took action that the proposal accepted by the one Panel be reported as Reject to correlate with all the other Panel actions.

The NEC Report on Proposals will be issued by NFPA in July. The ROP will contain every proposal that was submitted along with the Panel actions on each proposal. The deadline for submitting Comments to NFPA is October 31, 2003.

IEEE C95.6, Standard for Safety Levels With Respect to Human Exposure to Electromagnetic Fields, 0 to 3 kHz passed ballot, withstood three challenges to the IEEE Standards Board, and has been published. The Standard addresses only acute effects and includes a statement that there is insufficient scientific evidence to support the theory that exposure to EMF causes long term chronic effects such as cancer. While OSHA participated in the development of the Standard, I have not heard anything regarding OSHA adoption of the Standard.

OPERATING SUBCOMMITTEE REPORTS

EMMC/CBS

Rhonda Banks reported that her committee had 16 present with 4 excused and 12 unexcused absences. Potential papers for next year:

Number	Type
4	A
2	B
4	C
3	D
4	E

Potential for 1 tutorial.

PDS

Bruce Graves reports 14 members in attendance this morning out of a membership of 36. Ten absences were excused and 9 unexcused with 5 visitors. Potential papers for next year:

Number	Type
4	A
2	B
6	C
2	D
0	E

2 tutorials, and 1 panel

TSSC

No report provided. Potential papers for next year:

Number	Type
0	A
2	B
0	C
1	D
2	E

DCS

Bob Olsson reported 32 present out of 43 total members with 6 excused absences, 3 unexcused absences and 1 guests. Potential papers for next year:

Number	Type
6	A
4	B
11	C
2	D
2	E

No tutorial or panel

2003 CHARELESTON CONFERENCE REPORT

Rhonda Banks welcomed everyone to the Westin Francis Marion hotel and to the city of Charleston. The conference attendance was reported to be currently about 140 with more expected to register on-site.

2004 VICTORIA TECHNICAL PAPER REPORT

Rory Johnson reviewed the 2004 program potential. Rory reported that the total potential papers from the subcommittee meetings compared to the last years were:

Paper Class	A	B	C	D	E	Tutorial	Panel
2003 (Conf)	14	10	21	8	8	0	2
2002 (Conf)	15	8	18	8	11	3	2
2002 Interim	29	13	9	9	9	4	2
2001 (Conf)	6	13	21	17	13	2	1
2001 Interim	20	9	14	16	19	2	1

FUTURE CONFERENCES

2004 – Victoria, BC

Date: Sunday, June 27th, 2004 to Thursday, July 1st, 2004

Location: Victoria, BC

Facilities: Technical Program - Victoria Conference Centre.
Accommodations - Hotel Grand Pacific

To date, the following has been accomplished:

- Conference Event planning 100% completed
- Mill brochures under development at present and will be distributed to all vendors requesting them, soft and hardcopy at the interim meeting.
- Web site 80% completed, full release for vendor use October. Introduction at the interim meeting. Registration begins January 5, 2004.
- Hospitality program 90% completed, pending vendor policy change.
- Reception planning and recognition luncheon underway.

2005 – JACKSONVILLE, FL

Rich Butler reports that in 2005 the PPIC conference is on for Jacksonville, FL June 20 to the 24. The IEEE Cement conference was held at the Adams Mark Hotel on the waterfront in past years and will be the venue for our conference. A committee is forming and work has begun. The conference will be June 20-24, Adam's Mark Hotel 904-633-9095.

2006 – ST. LOUIS, MO

2007 – MILWAUKEE, WI

Dave Rollay is still looking for someone that will volunteer to be the local Chairman for a Milwaukee, WI conference in 2007. He does have commitment from several people to serve on the committee.

OLD BUSINESS

Blake Lloyd reported that a permanent web site has been created and urged all members to visit the demo site and provide comments and suggestions on format and content (<http://ppic.irispowerengineering.com>). Once these are received, the site will be finalized and properly hosted.

NEW BUSINESS

Dave Rollay reported on recommendations on next years interim meeting. The meeting will be held in Atlanta on October 19, 20 at the Weston Atlanta Airport Hotel.

Ron Simpson reported on the new subcommittee chairperson appointments. They are:

EMMC	Larry Menche
PDS	Edwin Hammonds
TSSC	Jim Williams
DCS	Duncan Rhodes

THE MEETING WAS ADJOURNED AT 3:05 PM.

Appendix A: FULL COMMITTEE AGENDA

**ANNUAL MEETING
FRANCIS MARION HOTEL, CHARLESTON, SC
MONDAY, JUNE 16, 2003 1:00 PM**

1 - Welcome & Introductions	Ron Simpson
2 - Review/Approval of Minutes of 6/17/02 Meeting	Blake Lloyd
3 - Executive Committee Report	Blake Lloyd
4 - Toronto Conference Report	John Kay
5 - Treasurers Report/Conference Audits	Dave Durocher
a - Toronto Audit Report	
b - Portland Audit Report	
6 - Standing Subcommittee Reports:	
a - Membership	Alan Lowe
b - Mailing List	John Kay
c - Publicity	Ron Meihofner
d - Paper Awards	Laurie Cihlar
e - PPIC Awards	Russ Thrift
f - Fellows Nominations	Clayton Reid Ron Simpson
7 - Liaison Reports:	
a - PAPTEC (CPPA)	Clayton Reid
b - IEEE-IAS	Clayton Reid
c - TAPPI	Burt Judson
d - IEEE - Standards Coordinating	Jim Daly
e - Electrical Safety Workshop	Larry Thomas
8 - Operating Subcommittee Reports:	
a - EMMC	Rhonda Banks
b - PDS	Bruce Graves
c - TSSC	Jim Williams
d - DCS	Bob Olsson
9 - 2003 Charleston Conference Report	Rhonda Banks
10 - 2003 Charleston Technical Program	Rory Johnson
11 - Future Conferences:	
2004 - Vancouver, BC	Mark Weaver
2005 - Jacksonville, FL	Rich Butler
2006 - St. Louis, MO	Jim Closson
2007 - Milwaukee, WI	Dave Rollay
12 - Old Business	
a - Permanent PPIC Web/FTP Site	Blake Lloyd
b - Ad-Hoc committee on declining conference attendance	Charlie Canty
13 - New Business	
a - Appointment of Subcommittee Chairs	Ron Simpson
b - Year 2003 interim meeting location and date	Dave Rollay

APPENDIX A

Adjourn Full Committee Meeting approximately 3:30 PM!

FULL COMMITTEE AGENDA

APPENDIX B: EMMC SUBCOMMITTEE

EMMC SUBCOMMITTEE MEETING MINUTES

June 16, 2003 – Charleston, SC

Meeting Date: June 16, 2003

Meeting Start: 8:30 AM

Meeting Adjourned: 11:45AM

Recorded By: Rhonda Banks/Larry Menche

Total Members: 33

Members Present: 16

Peter Baen	Blake Lloyd
Rhonda Banks	George Matto
Laurie Cihlar	Larry Menche
Del Decker	Robert Montgomery
Dave Durocher	Frank Newman
Tim Hoy	Wayne Vinson
Rory Johnson	Rick Watson
Burt Judson	Allen Watson

Visitors: 0

Members Visiting Other Subcommittee:

1

John Thompson

Members Excused: 4

Janet Flores
Larry Thomas
Russ Thrift
Steven Trussell
Stan Merritt

Members Not Excused: 12

Kirk Armintor	Pete Dalpe
Joe Armstrong	Mike Jhaveri
Ajit Bapat	Ken Bruni
Bruce Campbell	Roland Roberge
Rich Carle	Reno Tonsi

Zafer Mohuiddin

2004 Paper Reviewer: Unnamed

Introduction

Introductions were made and a list of the EMMC members was circulated for attendance and updates.

General Business

Highlights of the Executive Committee Meeting were reported.

- Blake Lloyd has developed a temporary website that will become permanent upon review.
- Rory has developed a form for each sponsor to receive when agreeing to sponsor a paper. It lists the responsibilities and **must** be filled out and sent to the program chair before the paper will be accepted. Also sponsors were asked to remind the presenters to attend the author's breakfast to submit their presentations to Duncan Rhodes.
- Submit "Unusual Failures" to Clayton Reid for Friday's session.
- Membership numbers were reviewed.
- The Operating Guide will be emailed to all members to review and return with noted updates.

New Business

Frank Newman was recognized as the Meritorious Service Award winner for this year's conference.

Larry Menche was recognized as the incoming EMMC subcommittee chair.

Volunteers to operate lighting during the technical sessions are Rick Watkins, Burt Judson and Blake Lloyd.

The subcommittee name will remain the same even though we have acquired the CBS subcommittee.

The list of proposed papers was reviewed and updated with changes. New paper topics were discussed.

This subcommittee contributed 7 papers to the conference this year.

Meritorious Award Nominees

None at the meeting. Members were encouraged to submit names at a later date.

Future Papers

APPENDIX B

EMMC SUBCOMMITTEE

Reference the Microsoft Excel database that accompanies the minutes for the list of future papers.

APPENDIX B

EMMC SUBCOMMITTEE

Future Papers

Number	Title	A	B	C	D	E	Year	Paper	Panel
1	CASE STUDY OF FIELD BUS INSTALLATION			1			2002	1	
2	CIRCUIT BREAKER INTERRUPTING AND SHORT TIME RATING		1				2002	1	
3	ELECTRICAL SAFETY TRAINING: NEW CODES AND STANDARDS DRIVE THE		1				2002	1	
4	ENERGY SAVING REBATE OPPORTUNITIES FOR MILL PROJECTS		1				2002	1	
5	TRANSFORMERS		1				2002	1	
6	ON ELECTRICAL SYSTEMS IN PULP & PAPER MILLS		1				2002	1	
7	LOCATIONS-A PHILOSOPHY CHANGE		1				2002	1	
8	INTERCONNECTION REQUIREMENTS FOR COGENERATION				1		2002	1	
9	PROCESS CHANGE			1			2002	1	
10	TECHNOLOGY			1			2002	1	
11	CURRENTS				1		2002	1	
12	888)					1	2002	1	
13	"WIRE AND CABLE "GOTCHAS"				1		2002	1	
14	MV VACUUM CONTROLS SERVING LARGE MOTORS				1		2003	1	
15	STUDY?)					1	2003	1	
16	SHOULD YOU NOT IN LEAN TIMES?					1			1
17	NETWORK SECURITY					1	2003	1	
18	CONTRACTED VS IN-HOUSE MAINTENANCE					1	2003	1	
19	GETTING AROUND THE NETWORKING NIGHTMARE					1	2002	1	
20	AUTOMATED TIE LINE CONTROL					1	2002	1	
21	COMPUTER BASED TRAINING					1	2002	1	

TOTAL 4 2 3 4 8

APPENDIX C PDS SUBCOMMITTEE**Power Distribution Systems**

June 16, 2003- Charleston, SC

Meeting Date: June 16, 2003

Meeting Start: 8:00 AM **Meeting Adjourn:** 12:00 Noon

Recorded by: Bruce Graves & Robert Adams

Total Members: 35 **New Members**

Guest: 3

Members Present: Robert Adams David Burrow
Don Deyo Bruce Graves
CH Hudson John Levine
Jamie Lyles Bob Moore
Bud Palmer Elton Parker
Richard Schaefer Ron Simpson
Bill Vilcheck Alex Wu

Members Excused: Robert Beltz Roy Cosse
Jay Das Bucky Hammonds
Shoaib Khan Doug Moody
Vernon Newbill Cliff Normand
Todd Robbins Rayburn Smith

Members Not Excused: Terry Branch Steve Dyrnes
Gus Henson Larry Pryor
Ed Reid Ted Sexton
Glenn Smith Charles Toole
Charles Wood

Guests: Chuck Mozina Tony Locker
John Cancelosi Tom Settlemyre
Charles Hardy

Members Transferred: 0

Resignations: 1 Jim Closson

Paper Reviewer: Bucky Hammonds & Robert Adams (back up)

Meritorious Award Nominees: None received

Conference Volunteers: Alex Wu & Chuck Mozina

Introduction

Bruce Graves welcomed all present to the Charleston PDS Subcommittee Meeting. Each member and guest was asked to introduce themselves. Robert Adams assisted in recording the meeting minutes.

A list of the PDS members was circulated for updating and attendance. Updates have been forwarded to Alan Lowe.

General Business

Solicitations and recommendations for Meritorious Service Award and Meritorious Engineering Awards were requested. None were received.

Executive Committee Meeting Minutes were reviewed and discussed. The interim meeting will be held in Atlanta on October 19-20 at the Westin Airport Hotel.

Thanks go to Robert Adams and Bucky Hammonds for grading papers for the 2003 conference. Thanks also go to Alex Wu and Chuck Mozina for assisting with lights during the 2003 conference.

Bruce Graves and Ron Simpson reviewed and discussed the importance of the paper sponsors to the success of our technical program. The sponsor is the key to getting the author's work to the technical program chairman. A copy of the 2003 Authors Guide will be distributed to all subcommittee members. Please refer to page 4 for the schedule of papers.

The list of proposed papers was reviewed and updated with changes and new paper topics were discussed and added. The updated list is included in these meeting minutes.

Time during the new papers discussions was limited and tutorials for the 2004 conference were not discussed. The PDS Subcommittee members should come to the interim meeting prepared to suggest tutorials for the 2004 conference.

Chuck Mozina updated us on the status of the Generator Grounding and the Generator Grounding Working Group Papers. He advised us that the working group papers presented at the IAS Conference will be presented at the 2003 PPIC Conference.

The PDS Subcommittee sponsored two tutorials for the 2003 conference, both of which were very successful. They were Generator Protection and Power Quality Monitoring. Attendance at both were good.

Digital Relay Testing and Commissioning was discussed again as well. Chuck Mozina advised that he had presented a paper on this subject and suggested it for the 2004 conference. The title of the paper is "Testing and Commissioning of Multifunction Digital Relays" which is a report prepared by the IEEE/IAS Working Group.

Cliff Normand asked that an item be added to the meeting agenda to include discussions regarding the proposed National Electrical Code change relating to shielded conductors above 2,400 volts. Tom Settlemyre, George Matto and John Cancelosi with Okonite joined our meeting to discuss this issue. Based on current standards and codes, applications at 2.4 kV and 4.16 kV do not require

APPENDIX C

PDS SUBCOMMITTEE

shielding. With the proposed change the impact to the users of our group could be significant. The gentlemen from Okonite advised that they felt that shielding above 2.4 kV was not required, but pointed out that some static discharges could be noticed on 4.16 kV applications where the cable is unshielded and physically close to a “Ground Plane.” These meeting minutes defer to the gentlemen from Okonite for further clarification on this subject. The PDS Subcommittee thanks Okonite for providing their input.

The subcommittee talked about NFPA 70 E and the new IEEE Standard 1584 that has been published regarding Electrical Safety. There is a great deal of interest in this subject in the PDS Subcommittee as well as in the TSSC Subcommittee. The TSSC subcommittee held a mini-tutorial as a part of the general conference technical session on Thursday of the 2003 Conference.

Future Papers

NO.	Title	Author	Author2	Author3	Sponsor	Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Status	Year	Comments
2002-01	Transformer Specification: Costly Common Misconceptions	Roger A. Bengston			Ed Reid	Terry Branch	Dave Burrow	Robert Adams		C	2004	New Subject 2001, Author Advised He Could Not Present in 2003.
2002-05	Case Study of Electrical System Reliability and Upgrade Justification	Alex Wu	Jerry King	Yousin Tang	Robert Adams	Glenn Smith	Doug Moody	Steve Dyrnes		A	2005	Client Requested Delay Until Project Is Complete
2002-08	Over Current Protection for Energy Efficient Motors	Steven Dyrnes			Alex Wu	Doug Moody	Bruce Graves	Jay Das		C	2004	Remove topic @ Interim Meeting if no response from author.
2003-04	Arc Resistant Switchgear Application and Installation				Jamie Lyles					D	2004	
2003-05	Case Study in Generator Brush Changing Procedures	Doug Moody			Chuck Mozina	Bill Vilcheck	Jamie Lyles	Gus Henson		D	2004	Moved to 2004
2003-06	Mitigating Capacitor Switching Over-voltages	Jay Das			Rich Schaefer	Jamie Lyles	Bill Vilcheck	Gus Henson		C	2005	Draft To be Presented @ 2003 Subcommittee Meeting
2003-07	Testing & Commissioning Multifunction Digital Relays	IAS Working Group			Robert Adams	Alex Wu	John Levine	Bob More	Don Deyo	A	2004	
2003-09 Paper	Effects of Utility Deregulation - What Does This Mean to Industry?	Mark Weaver	Paul Buddingh		Alex Wu	Jay Das	Robert Adams	Bill Vilcheck	Chuck Mozina	C	2004	Paper Draft Promised Complete by Nov. 20, 2002
2003-09 Panel	Panel Discussion on The Effects of Utility Deregulation - What Does This Mean to Industry?	Mark Weaver Moderator			Alex Wu					C	2004 Panel	Paper and Panel Suggested for Friday Morning Presentation
2003-11	Flash Hazard Fault Calculations	Shoaib Kahn			Ed Sexton	Jim Closson	Alex Wu	Cliff Normand	Doug Moody	C	2004	Author advised a delay until 2004
2003-12	Transient Stability Study - Case Study - Small Generator Connected to Weak	Jay Das			Rich Schaefer	Alex Wu	Terry Branch	Doug Moody	Bob Moore	A	2004	Author advised a delay until 2004

APPENDIX C

PDS SUBCOMMITTEE

	Electrical System											
2003-15	Unintended Consequences of Variable Frequency Drives	Tom Trueb			Bruce Graves					C	2004	Bruce to follow-up with Tom Trueb

APPENDIX D

TSSC SUBCOMMITTEE

APPENDIX D TSSC SUBCOMMITTEE
TRAINING, SAFETY, STANDARD AND CODES
SUBCOMMITTEE

NO REPORT

**APPENDIX E DCS SUBCOMMITTEE
DRIVES AND CONTROLS SUBCOMMITTEE
2002 ANNUAL MEETING MINUTES**

Meeting Date: June 16, 2003
Meeting Started: 8:30 AM
Meeting Adjourned: 11:45 AM
Chairman: Bob Olsson
Secretary: Duncan Rhodes
Total Members: 42
Members Present: 32
Members Excused: 3
Members Not Excused: 7
Guests: 4
Paper Grader: To be determined at Interim Meeting
Meritorious Award Nominees: None
Conference Volunteers: Lights: Alan Lowe
Audio/Video: Duncan Rhodes

Introduction

All members and guests introduced themselves.

Announcements

Effective 7/1/03, Duncan Rhodes to become Chairman, John Malinowski to become Secretary of DCS (rotates on odd years)

Rory Johnson to remain as Program Chair next year (Committee Officers rotate on even years)

All Sponsors to receive a checklist detailing their duties in a separate mailing, along with a current Author's Guide.

APPENDIX E

DCS SUBCOMMITTEE

General Business

- The Interim Meeting is scheduled for Atlanta, GA, at the Westin Airport Hotel (888-627-7211), on 10/26/02 (Saturday evening – E-Board) & 10/27/02 (Sunday – Subcommittee meetings – adjourn about 3:00 pm). IEEE group room rate is \$119.00, reservations by 9/27/02. Shuttle from airport.
- Future Conferences are scheduled as follow:

2004	Victoria, BC	Mark Weaver	Sunday 6/27 to Thursday 7/1/2004
	The Hotel Grand Pacific		http://www.hotelgrandpacific.com/index.html
2005	Jacksonville, FL	Rich Butler	
	June 20-24	Adam's Mark	904-633-9095
2006	St. Louis, MO	???	
2007	Milwaukee, WI	Dave Rollay to find Chair	
- Blake Lloyd has a temporary website to host the PPIC Conference information, URL <http://ppic.irispowerengineering.com>. The permanent website URL will be changed to an IEEE root after establishment. This website will have a 'Members Only' and an 'Executive Committee Only' access through sign-on in addition to areas open to the general public. Conference information, the PPIC Operating Guide will be published here, as well as directories of the PPIC members. A file transfer area will help in passing papers, presentations, etc. that are too large to e-mail. The IEEE IAS website will have a pointer to this website as well.
- The necessity of more mill participation was discussed in the subcommittee meeting, as well as in the full committee meeting later. A concerted effort will be made to add many more mill personnel to the Conference mailing list. We may e-mail future Conference invitations, and use surface mail only if the e-mail bounces (or upon request). This will allow us to greatly expand the mailing list (currently at 1900) without increasing the cost or effort of the mailing.

Future Papers

2004	A	5		
	B	6		
	C		13	
	D		1	
	E	3		
2004	A	1	2004 Tutorials	1
	C		1	

See the attached paper summary spreadsheet.
(Some papers were added after adjournment.)
(2003-DCS-Paper-Listing.xls)

Member and Attendance List

See the attached attendance spreadsheet (*DCS-Roster-03July7.xls*)

Bob Olsson adjourned the meeting at 11:45 am.

FUTURE PAPERS

Index #	Number	Title	Status					Year	Paper	Panel	Tutorial
			A	B	C	D	E				
1	1999-02	Synchronous Motor Field Protection and Control Applications					1	2004	1		
2	2000-12	Case History - Design Considerations of Drive System Installations			1			2005	1		
3	2001-04	Drive Application for Bridge Cranes			1			2004	1		
4	2002-01	Proper Drive Installation for Adjustable Speed Drives			1			2004	1		
5	2002-06	Understanding the New EASA Mechanical Repair Guideline	1					2004	1		
6	2002-09	The Impact of Voltage Utilization on AC Drives			1			2004	1		
7	2003-04	DC Motor Flashover Case History			1			2005	1		
8	2003-05	Bus Capacitor Life in AC Drives				1		2004	1		
9	2003-06	Replacement of Mechanical PIV's by AC Drives	1					2004	1		
10	2003-07	Mill Requirements for Drive System Trending			1			2004	1		
11	2003-09	Implementation Issues in Electronic Lineshafting Control		1				2004	1		
12	2003-11	Industrial CAT5 & Fiberoptics Cabling and Terminations for Drives & Controls			1			2004	1		
13	2004-01	Life Cycle Costing - AC vs DC Coordinated Drive Systems					1	2004	1		
14	2004-02	Techniques For Motor Starting			1			2004	1		
15	2004-03	Rogowski Coils			1			2004	1		
16	2004-04	Assesment of Non-Intrusive Motor Efficiency Estimators	1					2004	1		
17	2004-05	Thermal Derating of TEFC Motors Coated By Spilled Pulp		1				2004	1		
18	2004-06	Evaluation of Setting Criteria of Speed Loops in Paper Machine Drives			1			2004	1		
19	2004-07	Evaluation of Torsional Oscillations in Paper Machine Drives			1			2004	1		
20	2004-08	Developments in Anti-Friction Motor Bearings			1			2004	1		
21	2004-09	Mill Motor Evaluation System			1			2004	1		
22	2004-10	Unique Safety Aspects of Permanent Magnet AC Motors			1			2004	1		
23	2004-11	A Unique Paper Machine Drive System Revamp			1			2004	1		
24	2004-12	Empirical Evaluation Of Heat Transfer through Finned Frames of TEFC Motors - Part 1		1				2004	1		
25	2004-13	Effect of Cable Geometry on Induced Zero Sequence Ground Currents with High Power Converters			1			2004	1		
26	2004-14	Changes in IEEE-841 and Where Might We Go From Here?			1			2004	1		
27	2004-15	Comparison of Frame Sizes Between Low Base Speed PM and Induction AC Motors			1			2004	1		
28	2004-16	Wire Protection in Drive Panels					1	2004	1		
29	2005-01	Energy Efficiency on Variable Speed Drive Systems			1			2005	1		
30	2005-02	Fault Event Forensics						2005			1
31	2005-03	Empirical Evaluation Of Heat Transfer through Finned Frames of TEFC Motors - Part 2		1				2005	1		

TOTAL 6 6 14 1 3 30 0 1

APPENDIX F

MEMBERSHIP REPORT

APPENDIX F MEMBERSHIP ROSTER

ROBERT L ADAMS [Robert] IEEE Member #07968274 PPIC Member Since 6/00 Subcommittee PDS	Office: 205-972-6281 Fax: 205-972-6251 Home 205-664-3196 E Mail: adamsr@bek.com	BE&K ENGINEERING COMPANY PO BOX 12607 BIRMINGHAM, AL 35202 6607
TIMOTHY R ALBERS [Tim] IEEE Senior Member #40354971 PPIC Member Since 6/00 Subcommittee DCS	Office: 314-553-1947 Fax: 314-553-1196 Home 636-922-1539 E Mail: tim.albers@emotors.com	US ELECTRIC MOTORS 8050 W FLORISSANT AVENUE ST LOUIS, MO 63136
JOSEPH K ARMINTOR [KIRK] IEEE Member #05579180 PPIC Member Since 8/02 Subcommittee EMMC	Office: 281-364-5303 Fax: 281-367-1585 Home 936-273-6130 E Mail: jkarmintor@ra.rockwell.com	ROCKWELL AUTOMATION 8708 TECHNOLOGY FOREST PLACE NO 150 THE WOODLANDS, TX 77381
JOSEPH N ARMSTRONG IEEE Senior Member #7410160 PPIC Member Since 5/92 Subcommittee EMMC	Office: 334-246-8331 Fax: 334-246-8345 Home 334-246-7189 E Mail: joearmstrong@boisepaper.com	BOISE CASCADE CORP WHITE PAPERS DIVISION 307 WEST INDUSTRIAL ROAD JACKSON, AL 36545
THOMAS E ASHLINE [Tommy] IEEE Member #40339860 PPIC Member Since 6/03 Subcommittee PDS	Office: 863-327-1080 Fax: 863-327-1091 Home 813-672-1715 E Mail: tashline@teamworknet.com	TEAMWORKNET INC 6550 NEW TAMPA HWY SUITE B LAKELAND, FL 33815
PETER R BAEN [Peter] IEEE Senior Member #4757670 PPIC Member Since 6/97 Subcommittee EMMC	Office: 512-396-5801 Fax: 512-396-3627 Home 512-353-1127 E Mail: peter.baen@thermon.com	THERMON MANUFACTURING CO 100 THERMON DR P O BOX 609 SAN MARCOS, TX 78667
RHONDA D BANKS [Rhonda] IEEE Senior Member #4876215 PPIC Member Since 7/95 Subcommittee EMMC	Office: 843-308-4999 Fax: 843-308-4916 Home 843-884-3402 E Mail: rdb14@meadwestvaco.com	MEAD WESTVACO CORP P O BOX 118005 NORTH CHARLESTON, SC 29423
AJIT BAPAT [AJIT] IEEE Member #05523360 PPIC Member Since 8/02 Subcommittee EMMC	Office: 905-673-1553 x134 Fax: 905-673-8472 Home 416-226-1350 E Mail: abapat@ipc-resistors.com	IPC RESISTORS INC 7615 KIMBEL ST UNIT 1 MISSISSAUGA, ON L5S 1A8
J RICHARD BARKER [Richard] IEEE Member #03652872 PPIC Member Since 6/03 Subcommittee TSSC	Office: 916-639-9295 Fax: 916-639-9296 Home 916-639-9295 E Mail: rbarker@generalcable.com	GENERAL CABLE 5339 WESLEY RD ROCKLIN, CA 95765
ROBERT J BELTZ [Robert] IEEE Associate Member PPIC Member Since 6/00 Subcommittee PDS	Office: 770-218-2910 Fax: 770-218-2915 Home 770-974-2153 E Mail: robertjbeltz@eaton.com	CUTLER HAMMER ENGINEERING 3900 KENNESAW 75 PARKWAY KENNESAW, GA 30144
J M BENTLEY [John] IEEE Life Fellow Member PPIC Member Since 5/84 Subcommittee DCS	Office: 715-543-8239 Fax: 715-543-8583 Home 715-543-8239 E Mail: jmbentley@centurytel.net	DRIVES CONSULTANT 6239 CLEARVIEW DR MANITOWISH WATERS, WI 54545

APPENDIX F

MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

AUSTIN HBONNETT [Austin] IEEE Life Fellow Member PPIC Member Since 12/89 Subcommittee DCS	Office: 636-256-9162 Fax: 636-207-9134 Home 636-256-9162 E Mail: austin.bonnett@emotors.com	A H BONNETT 14546 GATEMONT DR CHESTERFIELD, MO 63017
TERRY G BRANCH [TERRY] IEEE Senior Member #06283980 PPIC Member Since 8/02 Subcommittee PDS	Office: 705-753-2170 x288 Fax: 705-753-3168 Home 905-844-8338 E Mail: terry.branch@weyerhaeuser.com	WEYERHAEUSER COMPANY CACUE BAY RD STURGEON FALLS, ON P0H 2G0
KENNETH A BRUNI [Ken] IEEE Member #5500897 PPIC Member Since 6/86 Subcommittee EMMC	Office: 864-458-7700 X211 Fax: - Home 717-629-3350 E Mail: kbruni@nationalelectrical.com	NATIONAL ELECTRICAL CARBON PO BOX 1056 GREENVILLE, SC 29607
DAVID A BURROW [David] IEEE Member #40226042 PPIC Member Since 6/99 Subcommittee PDS	Office: 912-652-1763 Fax: 912-652-1502 Home 912-897-3371 E Mail: dburrow@kmg.com	KERR-MCGEE 1 KERR MCGEE RD P O BOX 368 SAVANNAH, GA 31402
KENNETH P BUTLER [KEN] IEEE Member #40099464 PPIC Member Since 3/98 Subcommittee DCS	Office: 513-603-6506 Fax: 513-942-9085 Home 513-231-7621 E Mail: kbutler@ra.rockwell.com	ROCKWELL AUTOMATION 9355 ALLEN RD WEST CHESTER, OH 45069
RICHARD D BUTLER [Rich] IEEE Member #00603720 PPIC Member Since 6/00 Subcommittee DCS	Office: 904-296-6229 Fax: 904-296-4808 Home 904-728-8388 E Mail: rdbutler@ra.rockwell.com	ROCKWELL AUTOMATION 6430 SOUTH POINT PARKWAY SUITE 180 JACKSONVILLE, FL 32216
BRUCE H CAMPBELL [Bruce] IEEE Associate Member PPIC Member Since 10/89 Subcommittee EMMC	Office: 513-841-3197 Fax: 513-841-3101 Home 513-474-1309 E Mail: bruce.campbell@siemens.com	SIEMENS ENERGY & AUTOMATION 4620 FOREST AVENUE NORWOOD, OH 45212 3396
CHARLES L CANTY [Charlie] IEEE Senior Member #7132756 PPIC Member Since 5/85 Subcommittee DCS	Office: 770-480-6251 Fax: 770-889-2045 Home 770-889-2045 E Mail: clcanty@ieee.org	GLOBAL ENGINEERING CO PO BOX88444 ATLANTA, GA 30356
RICHARD H CARLE [Rich] IEEE Senior Member #5437637 PPIC Member Since 7/95 Subcommittee EMMC	Office: - Fax: - Home 360-425-0981 E Mail: rhcarle@prodigy.net	WEYERHAEUSER RETIRED 2547 NORTHLAKE AVE LONGVIEW, WA 98632
LAURIE K CIHLAR [Laurie] IEEE Senior Member #8676322 PPIC Member Since 7/93 Subcommittee EMMC	Office: 843-740-2199 Fax: 843-308-4916 Home 843-763-5168 E Mail: lk1@meadwestvaco.com	MEAD WESTVACO CORP P O BOX 118005 NORTH CHARLESTON, SC 29423
ROY E COSSE JR [Roy] IEEE Senior Member #05536073 PPIC Member Since 10/02 Subcommittee PDS	Office: 713-984-4019 Fax: 713-948-4569 Home 281-373-1465 E Mail: rcosse@powl.com	POWELL ELECTRIC MFG CO 8558 MOSLEY HOUSTON, TX 77075

APPENDIX F

MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

D RAY CRANE [Ray] IEEE Senior Member #7326135 PPIC Member Since 6/78 Subcommittee DCS	Office: 662-245-5231 Fax: 662-245-5228 Home 662-327-1961 E Mail: ray.crane@weyerhaeuser.com	WEYERHAUSER COMPANY PO BOX 2288 COLUMBUS, MS 39704
TIMOTHY M CRNKO [Tim] IEEE Member #40354249 PPIC Member Since 6/00 Subcommittee TSSC	Office: 636-527-1384 Fax: 636-207-3649 Home 314-966-6505 E Mail: tcrnko@buss.com	COOPER BUSSMANN PO BOX 14460 ST LOUIS, MO 63178 4460
L PETER DALPE [Pete] IEEE Member #40090857 PPIC Member Since 6/99 Subcommittee EMMC	Office: - Fax: - Home 904-277-3786 E Mail: NONE	P DAPLE ENGINEERING PO BOX 168 FERNANDINA BEACH, FL 32035
J M DALY [Jim] IEEE Life Fellow Member PPIC Member Since 6/73 Subcommittee TSSC	Office: 201-327-2524 Fax: 201-327-4149 Home 201-327-7596 E Mail: jim.daly@ieee.org	GENERAL CABLE 11 VALLEY LANE UPPERSADDLE RIVER, NJ 07458
J C DAS [Jay] IEEE Senior Member #04037438 PPIC Member Since 6/01 Subcommittee PDS	Office: 404-370-3454 Fax: 404-370-3646 Home 770-4696125 E Mail: jay.das@amec.com	AMEC ONE WEST COURT SQUARE SUITE 300 DECATUR, GA 30030
D L DECKER [Del] IEEE Senior Member #6122857 PPIC Member Since 10/92 Subcommittee EMMC	Office: 206-494-9597 Fax: 206-494-9500 Home 206-878-7266 E Mail: delmar.decker@harrisgrp.com	HARRIS GROUP INC 1000 DENNY WAY SUITE 800 SEATTLE, WA 98109
DONALD B DEYO [Don] IEEE Senior Member #0505495 PPIC Member Since 10/89 Subcommittee PDS	Office: 253-924-6925 Fax: 253-924-6592 Home 253-630-2735 E Mail: don.deyo@weyerhaeuser.com	WEYERHAEUSER COMPANY WTC 1D41 PO BOX 9777 FEDERAL WAY, WA 98063 9777
ROB C DUFTON [Rob] IEEE Member #41480611 PPIC Member Since 10/02 Subcommittee DCS	Office: 519-740-4100 x 247 Fax: 519-740-9871 Home 519-584-1722 E Mail: rcdufton@ra.rockwell.com	ROCKWELL AUTOMATION OF 135 DUNDAS STREET CAMBRIDGE, ON N1R 5X1
DAVID B DUROCHER [DAVE] IEEE Senior Member #40236081 PPIC Member Since 1/98 Subcommittee EMMC	Office: 503-624-4025 Fax: 503-624-4040 Home 503-657-8019 E Mail: davidbdurocher@eaton.com	CUTLER-HAMMER INC 5000 MEADOWS RD SUITE 300 LAKE OSWEGO, OR 97035
RICHARD DYKSTRA [Richard] IEEE Associate Member PPIC Member Since 10/01 Subcommittee DCS	Office: 519-740-4100 x1514 Fax: 519-740-5510 Home 519-742-8279 E Mail: rdykstra@ra.rockwell.com	ROCKWELL AUTOMATION 12 RAGLIN PLACE CAMBRIDGE, ON N1R 7J2
STEVEN L DYRNES [Stephen] IEEE Senior Member #3688124 PPIC Member Since 9/83 Subcommittee PDS	Office: 503-781-5753 Fax: 246-0577 Home 503-377-6999 E Mail: sdyrnes@aol.com	DYRNES ENGINEERS 9320 SW BARBUR BLVD SUITE 230 PORTLAND, OR 97219

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MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

STEVE T EVON [Steve] IEEE Member #40316000 PPIC Member Since 6/03 Subcommittee DCS	Office: 864-284-5657 Fax: 864-281-2196 Home 864-306-3057 E Mail:	ROCKWELL AUTOMATION 6040 PONDERERS COURT GREENVILLE, SC 29615
PETER F FAMIGHETTI [Pete] IEEE Member #7449390 PPIC Member Since 11/87 Subcommittee DCS	Office: 920-757-0775 Fax: 920-757-9961 Home 920-582-5940 E Mail: pfamighetti@qcomptech.com	Q COMP TECHNOLOGIES INC W6564 QUALITY DRIVE GREENVILLE, WI 54942
JANET F FLORES [Janet] IEEE Senior Member #4005932 PPIC Member Since 10/94 Subcommittee EMMC	Office: 281-364-5325 Fax: 281-367-1585 Home 936-321-9918 E Mail: jfflores@ra.rockwell.com	ROCKWELL AUTOMATION 8708 TECHNOLGY FORREST NO 150 THE WOODLANDS, TX 77381
H LANDIS FLOYD II [LANNY] IEEE Fellow Member #06536767 PPIC Member Since 8/02 Subcommittee TSSC	Office: 302-695-0146 Fax: 302-695-0734 Home - E Mail: h.l.floyd@ieee.org	DUPONT ENGINEERING 101 BEECH ST WILMINGTON, DE 19880
RUSSELL T FORD [Russ] IEEE Associate Member PPIC Member Since 6/00 Subcommittee DCS	Office: 770-671-2653 Fax: 770-671-2694 Home 770-664-6618 E Mail: russellford@eaton.com	EATON CUTLER HAMMER 9000 CENTRAL PARK WEST SUITE 200 ATLANTA, GA 30328
PHILIP FRANSEN [Phil] IEEE Senior Member #7502495 PPIC Member Since 9/83 Subcommittee DCS	Office: 604-270-7728 Fax: 604-270-6252 Home 604-275-3429 E Mail: pfransen@fransen-eng.com	FRANSEN ENGINEERING LTD SUITE 210 3031 VIKING WAY RICHMOND, BC V6V 1W1
ROBERT J FRITZ [Bob] IEEE Member #7591225 PPIC Member Since 6/78 Subcommittee DCS	Office: 216-642-1230 Fax: 216-642-6037 Home 216-838-1083 E Mail: rfritz@avtron.com	AVTRON MFG INC 7900 E PLEASANT VALLEY ROAD INDEPENDENCE, OH 44131
TERRY F GALLAGHER [Terry] IEEE Senior Member #40201242 PPIC Member Since 1/98 Subcommittee DCS	Office: 503-670-4011 Fax: 503-670-6548 Home 503-635-7419 E Mail:	ROCKWELL AUTOMATION 7632 SW DURHAM RD TIGARD, OR 97062
ROBERT D GIESE [Bob] IEEE Senior Member #1509868 PPIC Member Since 10/86 Subcommittee DCS	Office: 253-945-6850 Fax: 360-392-4638 Home 360-392-4638 E Mail: bobgiese@comcast.net	GIESE AND ASSOCIATES 5678 WHITEHORN WAY BLAINE, WA 98230
MICHAEL V GLENN [Mike] IEEE Senior Member #7233927 PPIC Member Since 9/79 Subcommittee TSSC	Office: 360-575-5548 Fax: 360-575-6109 Home 360-414-0649 E Mail: mvglenn@longfibre.com	LONGVIEW FIBRE COMPANY END OF FIBRE WAY P O BOX 639 LONGVIEW, WA 98632
B L GRAVES [Bruce] IEEE Senior Member #5688924 PPIC Member Since 6/84 Subcommittee PDS	Office: 864-627-9511 Fax: 864-627-9564 Home 864-967-4670 E Mail: gravesbg@aol.com	WORLD WIDE TECHNOLOGIES INC 132A PILGRIM ROAD GREENVILLE, SC 29607

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MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

VLADIMIR W GREEN [BILL] IEEE Member #04060877 PPIC Member Since 8/02 Subcommittee DCS	Office: 610-499-6523 Fax: 610-499-6413 Home 302-478-4488 E Mail: bgreen@kcc.com	JACOBS ENGINEERING FRONT ST & AVE OF THE STATES CHESTER, PA 19013
EDWIN I HAMMONDS [Bucky] IEEE Senior Member PPIC Member Since 7/95 Subcommittee PDS	Office: 205-972-6000 Fax: 205-972-6251 Home 205-631-5833 E Mail: hammondsb@bek.com	BE&K ENGINEERING CO. 200 INTERNATIONAL PARK BIRMINGHAM, AL 35243
CHARLES J HARDY [Charlie] IEEE Member #40346480 PPIC Member Since 6/03 Subcommittee PDS	Office: 615-507-2185 Fax: 615-507-2188 Home 615-595-2336 E Mail: charha@selinc.com	SEL INC INDUSTRIAL SOLUTIONS 130 SEABOARD LANE UNIT 7 FRANKLIN, TN 37067
JAMES H HARRIS [JIM] IEEE Member #06795546 PPIC Member Since 6/99 Subcommittee TSSC	Office: 704-321-5430 Fax: 704-321-5464 Home 704-321-5430 E Mail: jharris@generalcable.com	GENERAL CABLE CORP PO BOX 21116 CHARLOTTE, NC 28277
WARREN A HENSON [Gus] IEEE Senior Member #05789623 PPIC Member Since 6/99 Subcommittee PDS	Office: 205-988-8949 Fax: 205-998-3338 Home 205-985-0465 E Mail: wah@heinet.com	HENSON ENGINEERING INC 197 CAHABA VALLEY PARKWAY PELHAM, AL 35124
JOHN R HOLMQUIST [John] IEEE Life Fellow Member PPIC Member Since 9/86 Subcommittee DCS	Office: 253-924-4671 Fax: 253-924-6592 Home 253-927-3623 E Mail: john.holmquist@weyerhaeuser.com	WEYERHAEUSER COMPANY WTC 1D41 PO BOX 9777 FEDERAL WAY, WA 98063 9777
WARREN S HOPPER [Warren] IEEE Senior Member #7972771 PPIC Member Since 6/00 Subcommittee DCS	Office: 541-741-5629 Fax: 541-741-5240 Home 541-895-3140 E Mail: warren.hopper@weyerhaeuser.com	WEYERHAEUSER COMPANY PO BOX 275 SPRINGFIELD, OR 97477
TIMOTHY A HOY [Tim] IEEE Applicant #11299301 PPIC Member Since 6/02 Subcommittee EMMC	Office: 250-564-3381 Fax: 250-562-6514 Home 250-964-1468 E Mail: thoy@udl.com	UNIVERSAL DYNAMICS LTD 215-556 NORTH NECHAKO RD PRINCE GEORGE, BC V2K 1A1
C H HUDSON [Claude] IEEE Life Senior Member PPIC Member Since 10/55 Subcommittee PDS	Office: - Fax: - Home 504-261-0326 E Mail: cphudsonla@aol.com	17174 LIBERTY ROAD PRIDE, LA 70770
PRESTON L JACKSON [PJ] IEEE Senior Member #5294731 PPIC Member Since 4/85 Subcommittee DCS	Office: 205-972-6238 Fax: 205-972-6251 Home 205-988-0248 E Mail: p.jackson@ieee.org	BE&K ENGINEERING 2000 INTERNATIONAL PARK DRIVE BIRMINGHAM, AL 35243
M K JHAVERI [Mike] IEEE Member #7565252 PPIC Member Since 9/91 Subcommittee EMMC	Office: - Fax: - Home - E Mail: mike.jhaveri@siemens.com	SIEMENS ,

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MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

R R JOHNSON [Rory] IEEE Senior Member #7822489 PPIC Member Since 9/83 Subcommittee EMMC	Office: 253-934-6106 Fax: 253-924-6592 Home 253-529-4103 E Mail: rory.johnson@weyerhaeuser.com	WEYERHAEUSER COMPANY P O BOX 9777 FEDERAL WAY, WA 98063 9777
ROGER W JONES [Roger] IEEE Senior Member #8315327 PPIC Member Since 3/87 Subcommittee TSSC	Office: - Fax: - Home 478-953-6394 E Mail: roger.jones@ieee.org	1118 ALDERLY LANE WARNER ROBINS, GA 31068
WALTER V JONES [Walt] IEEE Senior Member #5206859 PPIC Member Since 9/79 Subcommittee DCS	Office: 540-380-2363 Fax: - Home 540-380-2363 E Mail: wvjonesdce@adelphia.net	DRIVE CONTROLS AND , VA
ROBERT S JORDAN [Bob] IEEE Senior Member #05900741 PPIC Member Since 1/96 Subcommittee TSSC	Office: 704-971-1728 Fax: 704-971-1753 Home 704-543-7040 E Mail: bob.jordan2@weyerhaeuser.com	WEYERHAEUSER COMPANY EASTERN REGION ENGINEERING 3800 ARCO CORP DR SUITE 500 CHARLOTTE, NC 28244
BURTON M JUDSON JR [Burt] IEEE Senior Member #3895372 PPIC Member Since 10/65 Subcommittee EMMC	Office: 440-646-7242 Fax: 440-646-7352 Home 440-946-3668 E Mail: bmjudsonjr@ra.rockwell.com	ROCKWELL AUTOMATION 1 ALLEN BRADLEY DR MAYFIELD HEIGHTS, OH 44124
RICHARD KANE [Dick] IEEE Senior Member #8531659 PPIC Member Since 8/89 Subcommittee DCS	Office: - Fax: - Home 715-421-3898 E Mail: NONE	,
JOHN A KAY [John] IEEE Senior Member #04383360 PPIC Member Since 6/95 Subcommittee DCS	Office: 519-740-4734 Fax: 519-740-9871 Home 519-578-4836 E Mail: jakay@ra.rockwell.com	ROCKWELL AUTOMATION 135 DUNDAS STREET CAMBRIDGE, ON NIR 5X1
S A KHAN [Shoaib] IEEE Life Senior Member PPIC Member Since 9/90 Subcommittee PDS	Office: 514-484-7914 Fax: 514-866-0804 Home 514-484-7914 E Mail: skhan@sandwell.com	SHOAIB KHAN CONSULTANTS INC 5170 ST IGNATIUS AVE MONTREAL, PQ H4V 2C2
JOHN S LEVINE [John] IEEE Senior Member #8838385 PPIC Member Since 5/92 Subcommittee PDS	Office: 770-565-1556 Fax: 770-973-9264 Home 770-956-0024 E Mail: john@L-3.com	LEVINE ELECTRONICS & LECTRIC INC 200 POWERS FERRY ROAD MARIETTA, GA 30067
PATRICK J LINK [Pat] IEEE Senior Member #7042559 PPIC Member Since 6/93 Subcommittee DCS	Office: 678-366-8989 Fax: 678-366-8988 Home 770-664-1047 E Mail: plink@asdsinc.com	ADJUSTABLE SPEED DRIVE 921 SUNDEW DRIVE ALPHARETTA, GA 30005
BLAKE A LLOYD [Blake] IEEE Senior Member #2278919 PPIC Member Since 2/94 Subcommittee EMMC	Office: 416-620-5600 Fax: 416-620-1995 Home 905-625-4431 E Mail: blloyd@irispower.com	IRIS POWER ENGINEERING INC 1 WESTSIDE DRIVE UNIT 2 ETOBICOKE, ON M9C 1B2

APPENDIX F

MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

ROBERT D LORENZ [Bob] IEEE Fellow Member #04992913 PPIC Member Since 6/00 Subcommittee DCS	Office: 608-262-5343 Fax: 608-265-2316 Home 608-273-3271 E Mail: r.d.lorenz@ieee.org	UNIVERSITY OF WISCONSIN 1513 UNIVERSITY AVENUE MADISON, WI 53706
J ALAN LOWE [Alan] IEEE Senior Member #5796792 PPIC Member Since 12/86 Subcommittee DCS	Office: 404-370-3387 Fax: 404-370-3646 Home 770-921-4377 E Mail: alan.lowe@amec.com	AMEC ONE WEST COURT SQUARE SUITE 300 DECATUR, GA 30030
JAMES E LYLES [Jamie] IEEE Senior Member #07351612 PPIC Member Since 6/98 Subcommittee PDS	Office: 828-651-0803 Fax: 800-647-9112 Home 828-628-9974 E Mail: jamielyles@eaton.com	CUTLER-HAMMER INC 175 VISTA BLVD ARDEN, NC 28738
JOHN E MALINOWSKI [John] IEEE Senior Member #41257491 PPIC Member Since 10/01 Subcommittee DCS	Office: 479-648-5909 Fax: 479-648-5626 Home 479-484-7898 E Mail: jmalinowski@baldor.com	BALDOR ELECTRIC CO PO BOX 2400 FORT SMITH, AR 72902
JAMES R MANTOOTH [Jim] IEEE Member #06251359 PPIC Member Since 6/00 Subcommittee DCS	Office: 770-740-3455 Fax: 770-740-3794 Home 770-740-9221 E Mail: james.mantooth@siemens.com	SIEMENS ENERGY & AUTOMATION 100 TECHNOLOGY DR ALPHARETTA, GA 30005
GEORGE R MATTO [George] IEEE Senior Member #6644249 PPIC Member Since 12/80 Subcommittee EMMC	Office: 503-598-0598 Fax: 503-620-7447 Home 503-807-5101 E Mail: matto@okonite.com	THE OKONITE COMPANY SUITE 150 6777 SW BONITA ROAD PORTLAND, OR 97224
RONALD O MEIHOFFER [Ron] IEEE Life Senior Member PPIC Member Since 5/66 Subcommittee DCS	Office: 770-992-4855 Fax: - Home 770-992-4855 E Mail: r.meihofer@worldnet.att.net	EUROTHERM DRIVES INC RETIRED 4801 CONVERSE DR MARIETTA, GA 30062
LAWRENCE A MENCHE IEEE Member #1917806 PPIC Member Since 4/94 Subcommittee EMMC	Office: 270-927-7406 Fax: 270-927-8734 Home 270-281-4858 E Mail: larry.menche@weyerhaeuser.com	WEYERHAEUSER COMPANY HIGHWAY 1406 P O BOX 130 HAWESVILLE, KY 42348
STANLEY Y MERRITT [Stan] IEEE Life Senior Member PPIC Member Since 6/78 Subcommittee EMMC	Office: 757-562-6782 Fax: - Home 757-562-6782 E Mail: staarlen@aol.com	MERRITT AND ASSOCIATES INC 23157 CALVIN DRIVE FRANKLIN, VA 23851
DAVID M MINTZLAFF [Dave] IEEE Senior Member #958229 PPIC Member Since 3/96 Subcommittee DCS	Office: 503-670-4044 Fax: 503-670-6548 Home 503-656-2212 E Mail: dmmintzlafl@ra.rockwell.com	ROCKWELL AUTOMATION 3085 SUNBREAK LANE WEST LINN, OR 97068
ZAFER MOHUIDDIN [Zafer] IEEE Associate Member PPIC Member Since 6/00 Subcommittee EMMC	Office: 864-268-4330 Fax: 864-268-4330 Home 864-268-4330 E Mail: zmohiuddin@aol.com	ZAFER ENGINEERING SERVICES 8 CRAIGMILLAR PLACE GREER, SC 29650

APPENDIX F

MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

ROBERT M MONTGOMERY IEEE Senior Member #01849538 PPIC Member Since 6/99 Subcommittee EMMC	Office: 843-745-3802 Fax: 843-745-3829 Home 843-572-3225 E Mail: rmm14@meadwestvaco.com	MEAD WESTVACO CORP 5600 VIRGINIA AVE PO BOX 118005 CHARLESTON, SC 29423 8005
DOUGLAS C MOODY [Doug] IEEE Senior Member #6296263 PPIC Member Since 6/00 Subcommittee PDS	Office: 301-359-3311 Fax: 301-359-2068 Home 301-729-5193 E Mail: dcm9@westvaco.com	WESTVACO FINE PAPERS 300 PRATT STREET LUKE, MD 21540
ROBERT T MOORE [BOB] IEEE Member #6136519 PPIC Member Since 8/02 Subcommittee PDS	Office: 706-575-7427 Fax: 334-298-7053 Home 334-298-7053 E Mail: rmoore9016@msn.com	4003 SURREY LANE PHENIX CITY, AL 36867
VERNON A NEWBILL [Vernon] IEEE Senior Member #05623178 PPIC Member Since 8/96 Subcommittee PDS	Office: 251-639-7314 Fax: 251-639-7314 Home 251-639-9088 E Mail: vernon.newbill@ipaper.com	INTERNATIONAL PAPER 1622 STONE HEDGE DR WEST MOBILE, AL 36695
F P NEWMAN [Frank] IEEE Senior Member #5943063 PPIC Member Since 6/71 Subcommittee EMMC	Office: 478-277-5352 Fax: 478-275-6301 Home 478-275-1438 E Mail: frank.newman@spnewsprint.com	SP NEWSPRINT CO 709 PAPERMILL ROAD DUBLIN, GA 31027
CLIFFORD J NORMAND JR IEEE Senior Member #05139217 PPIC Member Since 12/97 Subcommittee PDS	Office: 513-248-6531 Fax: 513-248-6682 Home 513-965-0272 E Mail: clifford.normand@att.net	INTERNATIONAL PAPER P O BOX 7910 6285 TRI-RIDGE BLVD LOVELAND, OH 45140
ROBERT W OLSSON [Bob] IEEE Associate Member PPIC Member Since 6/99 Subcommittee DCS	Office: 216-642-4234 x1375 Fax: 216-642-9743 Home 440-338-7143 E Mail: rolsson@avtron.com	AVTRON MFG INC PULSE 7900 E PLEASANT VALLEY RD INDEPENDENCE, OH 44131
GAIL W PALMER [Bud] IEEE Member #8421265 PPIC Member Since 12/87 Subcommittee PDS	Office: 919-770-2116 Fax: - Home 919-499-2967 E Mail: budinc2002@yahoo.com	BUD PALMER INC / QUAL TECH ENG 166 WOOD WEDGE WAY SANFORD, NC 27332
ELTON L PARKER [Elton] IEEE Life Senior Member PPIC Member Since 10/77 Subcommittee PDS	Office: 704-552-2407 Fax: - Home 704-552-2407 E Mail: parkerel@aol.com	RETIRED 6522 HIGHWOOD PLACE CHARLOTTE, NC 28210
CRAIG M PINTO [CRAIG] IEEE Member #41464658 PPIC Member Since 8/02 Subcommittee DCS	Office: 912-236-8001 Fax: 770-740-3578 Home 912-236-6409 E Mail: craig.pinto@siemens.com	SIEMENS ENERGY & AUTOMATION 105 WEDGEFIELD CROSSING SAVANNAH, GA 31405
STEPHEN D PITTMAN [Steve] IEEE Senior Member #4355756 PPIC Member Since 7/95 Subcommittee TSSC	Office: 208-799-1756 Fax: 208-799-4140 Home 208-743-6807 E Mail:	POTLATCH PULP & PAPER CORP 803 MILL ROAD LEWISTON, ID 83501

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MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

LARRY A PRYOR [Larry] IEEE Member #05604137 PPIC Member Since 6/98 Subcommittee PDS	Office: 972-377-5214 Fax: 972-377-5290 Home 817-429-5212 E Mail: larry.pryor@indsys.ge.com	GE INDUSTRIAL SYSTEMS 2595 N DALLAS PARKWAY SUITE 200 FRISCO, TX 75034
S P REDDY [SP] IEEE Senior Member #4069860 PPIC Member Since 10/81 Subcommittee PDS	Office: - Fax: - Home 205-823-5588 E Mail: hpsreddy@yahoo.com	BE&K ENGINEERING COMPANY 944 MOUNTAIN BRANCH DRIVE BIRMINGHAM, AL 35226
CLAYTON H REID [Clayt] IEEE Fellow Member #7117872 PPIC Member Since 10/77 Subcommittee TSSC	Office: 519-623-1997 Fax: 519-623-2455 Home 519-623-1997 E Mail: chreid@ieee.org	ROCKWELL AUTOMATION 3-367 GEORGE ST N CAMBRIDGE, ON N1S 4X5
W EDWARD REID [Ed] IEEE Member #6513980 PPIC Member Since 9/90 Subcommittee PDS	Office: 412-835-8808 Fax: 412-835-4640 Home 724-945-6704 E Mail: edreid@qualtecheng.com	QUAL-TECH ENGINEERS INC 110 FORT COUCH ROAD PITTSBURGH, PA 15241
DUNCAN J. RHODES IEEE Senior Member #02462950 PPIC Member Since 9/96 Subcommittee DCS	Office: 920-720-0306 Fax: 920-720-0306 Home 920-969-9302 E Mail: duncan-rhodes@cerrillos.net	INTROL 344 JOSEPH ST NO 4 NEENAH, WI 54956
TODD E ROBBINS [TODD] IEEE Senior Member #01580844 PPIC Member Since 8/02 Subcommittee PDS	Office: 253-924-3255 Fax: 253-924-6592 Home 253-848-5212 E Mail: todd.robbins@weyerhaeuser.com	WEYERHAEUSER ENGINEERING PO BOX 9777 MAIL STOP WTC 1D41 FEDERAL WAY, WA 98063 9777
ROLAND ROBERGE [Roly] IEEE Member #04256947 PPIC Member Since 6/00 Subcommittee EMMC	Office: 864-458-7700 x194 Fax: 864-987-0449 Home 864-286-3227 E Mail: rroberge@nationalelectrical.com	NATIONAL ELECTRICAL CARBON 251 FORRESTER DRIVE GREENVILLE, SC 29607
DAVID T ROLLAY [Dave] IEEE Senior Member #5480819 PPIC Member Since 4/82 Subcommittee DCS	Office: 414-382-2163 Fax: 414-382-3681 Home 414-529-2427 E Mail: dtrollay@ra.rockwell.com	PACKAGED CONTROL PRODUCTS ROCKWELL 1201 SOUTH 2ND ST MILWAUKEE, WI 53202
JAMES A ROOKS [Jim] IEEE Life Senior Member PPIC Member Since 1/98 Subcommittee DCS	Office: 503-524-4640 Fax: 503-524-4640 Home 503-590-0576 E Mail: jrookspdx@aol.com	J&R CONSULTING INC 11045 SW COTTONWOOD LN TIGARD, OR 97223 4221
PAUL J ROUILLIER [Paul] IEEE Senior Member #6520928 PPIC Member Since 9/90 Subcommittee TSSC	Office: 205-991-4177 Fax: 205-991-4225 Home 205-425-4323 E Mail: paul.rouillier@indsys.ge.com	GE INDUSTRIAL SYSTEMS 300 RIVERHILLS BUSINESS PARK BIRMINGHAM, AL 35242
RICHARD C SCHAEFER [] IEEE Senior Member #01440783 PPIC Member Since 6/98 Subcommittee PDS	Office: 618-654-2341 Fax: 618-654-2351 Home 618-539-5402 E Mail: richschaefer@basler.com	BASLER ELECTRIC BOX 269 RT 143 HIGHLAND, IL 62249

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MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

DELBERT E SEAVER [DEL] IEEE Senior Member #06391908 PPIC Member Since 8/95 Subcommittee DCS	Office: 817-938-5165 Fax: - Home 817-410-9377 E Mail: seaverde@aol.com	CONSULTING ENGINEERING 1204 SABINE COURT SOUTHLAKE, TX 76092
EDWARD R SEXTON [Ted] IEEE Member #0477406 PPIC Member Since 9/90 Subcommittee PDS	Office: 514-341-3221 Fax: 514-341-3278 Home 514-935-2874 E Mail: sextont@abgs.com	ABGS INC 5250 FERRIER ST SUITE 700 MONTREAL, PQ H4P 1L6
RALPH W SHEAD [Ralph] IEEE Member #4507711 PPIC Member Since 6/84 Subcommittee TSSC	Office: 770-921-9159 Fax: 770-921-1791 Home - E Mail: ralpga@aol.com	DIVERSIFIED SUPPLY 128 STONEVIEW DR LILBURN, GA 30047
RONALD H SIMPSON [Ron] IEEE Senior Member #4756805 PPIC Member Since 2/85 Subcommittee PDS	Office: 770-999-7315 Fax: 770-999-7439 Home 770-614-6845 E Mail: ron.simpson@indsys.ge.com	GE INDUSTRIAL SYSTEMS 6465 JOHN S CROSSING DULUTH, GA 30097
GLENN A SMITH [Glenn] IEEE Senior Member #04606034 PPIC Member Since 6/00 Subcommittee PDS	Office: 318-556-1551 Fax: 318-556-1221 Home 318-387-6774 E Mail: glenn.smith@ipaper.com	INTERNATIONAL PAPER 705 COLLIERS LANE PO BOX 312 BASTROP, LA 71220
RAYBURN E SMITH [Ray] IEEE Member #8005274 PPIC Member Since 10/87 Subcommittee PDS	Office: 205-655-9677 Fax: 205-655-9677 Home 205-853-2635 E Mail: rayandlou@msn.com	CONSULTING ENGINEER 4514 MARTIN WILSON ROAD TRUSSVILLE, AL 35173
MALCOLM G STEEVES IEEE Member #6728927 PPIC Member Since 5/88 Subcommittee TSSC	Office: 780-778-2036 Fax: 780-778-4384 Home 780-778-2370 E Mail: masteeves@vennercs.com	MILLAR WESTERN FOREST P O BOX 1072 WHITECOURT, AB T7S 1N9
LARRY K THOMAS [Larry] IEEE Senior Member #2341568 PPIC Member Since 11/87 Subcommittee EMMC	Office: - Fax: - Home 541-484-2820 E Mail: larrythomas@ieee.org	2820 CHUCKANUT EUGENE, OR 97408
JOHN C THOMPSON [John] IEEE Senior Member #07274285 PPIC Member Since 6/82 Subcommittee TSSC	Office: 770-671-2615 Fax: 770-671-2699 Home 770-975-4590 E Mail: johncthompson@eaton.com	CUTLER-HAMMER INC 9000 CENTRAL PARK SUITE 200 ATLANTA, GA 30328
JOHN R THOMPSON [John] IEEE Senior Member #6223267 PPIC Member Since 6/76 Subcommittee DCS	Office: 715-394-5806 Fax: 218-628-0310 Home 715-394-5806 E Mail: jrt4066@yahoo.com	JRT ENGINEERING 14 BILLINGS DR SUPERIOR, MN 54880
JAMES R THRIFT [Russ] IEEE Senior Member #8842031 PPIC Member Since 5/88 Subcommittee EMMC	Office: 770-992-5879 Fax: 770-587-2751 Home 770-992-3559 E Mail: jrthrift@southernco.com	SOUTHERN COMPANY 1237 RIVERSOUND CT MARIETTA, GA 30068

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MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

CHARLES B TOOLE [Charlie] IEEE Associate Member PPIC Member Since 6/99 Subcommittee PDS	Office: 252-435-1180 Fax: 252-435-2262 Home 252-435-1180 E Mail: cbtoole@inteliport.com	DYNAPOWER CORP 586 TULLS CREEK ROAD MOYOCK, NC 27958
STEVENTRUSSELL [Steven] IEEE Senior Member #40324950 PPIC Member Since 6/00 Subcommittee EMMC	Office: 334-832-3519 Fax: 334-832-3050 Home 334-358-9749 E Mail: strusse@southernco.com	ALABAMA POWER COMPANY 200 DEXTER AVE PO BOX 160 MONTGOMERY, AL 36101
ANIBAL VALENZUELA [Anibal] IEEE Senior Member #40133961 PPIC Member Since 8/99 Subcommittee DCS	Office: 56-41-203227 Fax: 56-41-246999 Home 56-41-285660 E Mail: avalenz@die.udec.cl	UNIVERSITY OF CONCEPCION DEPT OF ELECTRICAL PO BOX 160-C CONCEPCION, CHILE
WILLIAM S VILCHECK [BILL] IEEE Senior Member #06359673 PPIC Member Since 2/98 Subcommittee PDS	Office: 724-779-5853 Fax: 724-779-5869 Home 724-228-9163 E Mail: williamsvilcheck@eaton.com	CUTLER HAMMER 130 COMMONWEALTH DR WARRENDALE, PA 15086
WAYNE O VINSON [WAYNE] IEEE Associate Member PPIC Member Since 12/97 Subcommittee EMMC	Office: 803-981-8627 Fax: 803-981-8225 Home 803-324-9346 E Mail: vinsonwo@bowater.com	BOWATER INC COATED PAPER 5300 CURETON FERRY RD CATAWBA, SC 29704
ERWIN J VON DER EHE IEEE Senior Member #40151830 PPIC Member Since 12/97 Subcommittee DCS	Office: 262-785-8394 Fax: 928-832-8572 Home 262-549-0593 E Mail: erwin.vonderehe@us.abb.com	ABB INC 16250 W GLENDALE DR NEW BERLIN, WI 53151
HENRY G WACHTER [Hank] IEEE Senior Member #8865289 PPIC Member Since 1/91 Subcommittee DCS	Office: 770-453-3470 Fax: - Home 770-622-4322 E Mail: hank_wachter@ieee.org	SIEMENS ENERGY AND 5405 METRIC PLACE SUITE 100 NORCROSS, GA 30092
RICHARD D WATKINS [Rick] IEEE Senior Member #6686265 PPIC Member Since 10/89 Subcommittee EMMC	Office: 770-492-2660 Fax: 770-493-0456 Home 770-972-6957 E Mail: rwatkins@dean-oliver.com	DEAN OLIVER INTERNATIONAL 4600 NORTH ROYAL ATLANTA TUCKER, GA 30084
ALLEN J WATSON JR [AJ] IEEE Associate Member PPIC Member Since 10/01 Subcommittee EMMC	Office: 843-704-8323 Fax: 843-745-3173 Home 843-553-1095 E Mail: awatt101@aol.com	INSTRUMENTATION DESIGN 101 SADDLEBACK CIRCLE GOOSE CREEK, SC 29445
MARK D WEAVER [Mark] IEEE Senior Member #6235592 PPIC Member Since 1/85 Subcommittee DCS	Office: 604-214-9248 Fax: 604-214-9249 Home 604-820-1748 E Mail: 3quarks@ieee.org	UNIVERSAL DYNAMICS LTD 100-13700 INTERNATIONAL PL RICHMOND, BC V6V 2X8
PETER H WERNER [Pete] IEEE Member #5984190 PPIC Member Since 2/94 Subcommittee DCS	Office: 262-512-8634 Fax: 262-512-8637 Home 262-677-2524 E Mail: phwerner@ra.rockwell.com	ROCKWELL AUTOMATION 6400 W ENTERPRISE DRIVE P O BOX 760 MEQUON, WI 53092

APPENDIX F

MEMBERSHIP REPORT

IEEE/IAS Pulp and Paper Industry Committee Members and Applicants

GARY E WETZEL [Gary]
IEEE Member #04464426
PPIC Member Since
Subcommittee TSSC

Office: 773-338-1000
Fax: 773-338-9446
Home 847-215-4675
E Mail: gwetzel@sandc.com

S&C ELECTRIC CO
METAL ENCLOSED GEAR DIVISION
6601 N RIDGE BLVD
CHICAGO, IL 60626

J C WILLIAMS [Jim]
IEEE Senior Member #6930036
PPIC Member Since 5/80
Subcommittee TSSC

Office: 503-266-3991
Fax: 503-266-9119
Home 503-266-3991
E Mail: jimw_1@web-ster.com

J C WILLIAMS CONSULTING
PO BOX 542

CANBY, OR 97013

CHARLES N WOOD JR
IEEE Senior Member #5024526
PPIC Member Since 6/88
Subcommittee PDS

Office: 205-972-6263
Fax: 205-972-6251
Home 205-491-7536
E Mail: woodc@bek.com

B E & K ENGINEERING
105 PIERSON CIRCLE

HUEYTOWN, AL 35023 2424

ALEX Y WU [Alex]
IEEE Senior Member #4158077
PPIC Member Since 3/83
Subcommittee PDS

Office: 770-475-3838 x 11
Fax: 770-475-3232
Home 770-399-6081
E Mail: globaleng@earthlink.net

GLOBAL ENGINEERING COMPANY
P O BOX 88444

ATLANTA, GA 30356

MARK K ZAWADZKI [Mark]
IEEE Senior Member #40238778
PPIC Member Since 7/97
Subcommittee DCS

Office: 513-248-6227
Fax: 513-248-6683
Home 513-576-0577
E Mail: mark.zawadzki@ipaper.com

INTL PAPER - MFG TECHNOLOGY
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LOVELAND, OH 45140

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MEMBERSHIP REPORT

	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03
	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I	A/I
Robert Adams																		X/X	X/O	X/X	E/X	X
Tim Albers																			X/X	X/X	X/X	X
Kirk Armintor																					X/X	E
Joe Armstrong												O/E	O/E	X/X	X/E	X/X	X/X	E/O	X/O	E/O	O/O	O
Tommy Ashland																						X
Peter Baen																/X	O/X	X/X	X/E	O/E	E/X	X
Ronda Banks														X/E	O/X	X/X	X/X	O/X	E/X	X/X	X/X	X
Ajit Bapat																					/E	O
Richard Barker																						X
Robert Beltz																			E/E	O/X	O/O	E
John Bentley			X/E	X/X	X/E	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	X/X	X/X	X/E	X/E	E/E	X/E	X
Austin Bonnett									X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/E	E/E	E/E	E
Terry Branch						/E	X/X	X/O	X/E	X/X	X/O	X/O	O/E	E/E	O/E	O/O	O/X	O/O	O/O	X/E	O	
Ken Bruni																			/O	O/O	O	
David Burrow																X/X	O/E	O/O	O/O	X/E	X/X	O
Ken Butler																X/O	O/O	O/O	X/O	X/O	X/E	X
Rich Butler																		X/X	X/X	X/O	X/E	X
Bruce Campbell							/X	X/E	X/O	X/X	X/X	X/O	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/O	O/O	O
Charlie Canty				X/X	E/E	E/X	E/O	X/X	E/E	X/X	O/X	X/O	E/O	E/X	E/X	X/X	X/E	X/X	X/X	X/X	X/X	X
Richard Carle														E/E	O/O	O/E	O/E	X/O	X/O	X/O	O/O	O
Laurie Cihlar										/X	X/X	X/X	O/X	O/X	E/E	E/X	E/X	X/E	E/X	X/X	X	
Jim Closson																			-/X	X/X	X/E	R
Roy Cosse																						E
Ray Crane	E/O	X/E	X/E	X/E	X/X	X/X	X/X	X/E	X/E	X/X	X/E	X/E	X/E	X/O	X/O	X/E	X/E	X/X	X/E	X/X	X/E	X
Tim Crnko																			X/X	X/X	X/E	X
Pete Dalpe																			O/O	X/O	O/O	E/O
Jim Daly	X/E	E/E	X/E	X/X	X/E	X/O	X/E	E/X	X/X	X/X	X/E	X/E	X/O	E/X	E/E	X/E	X/O		X/X	X/O	X/E	X
Jay Das																			-/X	X/X	X/X	E
Del Decker												X/O	X/E	O/O	O/O	X/E	E/E	E/E	X/E	X/E	E/E	X
Don Deyo							/E	X/X	X/X	X/X	X/O	E/X	X/X	E/E	X/E	X/O	X/E	X/E	X/E	X/E	X/E	X
Rob Dufton																					/X	E
David Durocher																X/X	X/X	X/X	X/O	X/X	X/X	X
Richard Dykstra																					X/E	O/X
Stephen Dynnes		/E	X/E	X/E	E/X	E/O	E/E	X/E	O/E	X/X	X/E	X/O	O/E	E/E	X/E	X/E	X/E	E/O	X/E	E/E	O	
Steve Evon																						X
Pete Famighetti							X/O	X/O	X/E	X/X	X/E	X/E	E/E	E/E	E/E	O/O	X/E	O/O	E/E	E/E	O/E	X
Janet Flores														X/X	X/X	E/X	X/O	E/X	O/E	X/E	E/O	E
Lanny Floyd																					X/O	O
Russ Ford																			X/O	X/X	X/E	X
Phil Fransen	X/	X/E	X/E	X/E	X/X	X/X	X/E	E/E	X/E	E/O	X/X	O/O	X/E	X/E	X/X	X/X	X/X	E/X	X/E	E/E	E/E	O
Bob Fritz	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	E/X	X/O	E/E	X/O	O/E	E/O	O/E	O/O	E/O	E/O	O/E	X
Terry Gallagher																X/X	X/X	X/E	X/O	X/E	X/E	X
Bob Giese				/E	X/O	E/E	O/O	X/E	E/E	X/O	E/O	E/E	X/E	X/O	E/O	E/O	X/E	O/E	X/O	O/O	O	
Mike Glenn	X/X	X/X	X/X	X/X	X/X	X/E	X/E	X/X	X/X	X/X	X/X	E/X	X/O	E/X	X/X	E/X	E/E	X/E	E/E	O/E	E/E	E

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MEMBERSHIP REPORT

Bruce Graves			X/X	E/X	X/X	X/X	X/X	X/X	E/E	X/X	E/X	E/O	E/E	X/O	O/X	X/X	E/E	O/X	X/X	X/X	X/X	X
Bill Green																					X/E	O
Bucky Hammonds														O/X	X/E	X/O	X/O	O/X	X/O	O/X	E/X	E
Charlie Hardy																						X
James Harris																	-/X	O/X	O/X	X/E	X/E	X
Warren Henson																		O/X	X/E	O/X	X/E	E
John Holmquist				/E	X/E	X/X	X/X	X/E	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X
Warren Hopper																			X/E	O/O	X/E	X
Tim Hoy																				X/O	O/O	X
Claude Hudson	X/X	X/E	X/X	X/E	X/E	X/O	E/O	X/O	X/O	X/O	X/X	X/O	X/E	X/O	X/O	E/E	O/O	O/O	E/O	O/O	O/O	X
Preston Jackson				O/X	E/X	X/E	X/E	X/E	X/X	X/E	X/X	X/E	X/E	X/X	X/X	X/E	X/O	X/X	X/X	X/X	X/X	X
Mike Jhaveri									/O	X/X	O/X	O/E	X/E	X/X	O/X	X/O	X/O	X/O	X/E	E/O	O	
Rory Johnson		/O	X/X	X/X	X/E	E/O	E/E	X/X	X/O	X/O	X/X	X/O	X/E	X/X	X/O	X/X	X/X	X/X	E/X	X/X	X/X	X
Roger Jones						X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	E
Walt Jones	X/X	X/X	X/X	X/E	E/E	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	O/X	X/X	X/X	X/X	X/X	X/X	E/E	X/E	E
Robert Jordan															E/E	X/X	X/E	X/X	X/X	X/X	X/E	X
Burt Judson	X/E	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	X/X	X
Dick Kane								/X	X/E	X/E	O/O	O/X	X/E	X/E	X/E	E/E	X/E	O/E	X/O	E/O	O/O	O
John A. Kay															X/X	X/X	X/X	X/X	X/X	X/X	X/X	X
Shoaib Khan								/E	X/O	X/O	X/O	X/O	X/O	X/O	X/E	X/X	X/E	X/E	X/O	X/E	X/E	E
John Levine										/X	E/X	X/X	E/X	X/E	O/X	X/X	O/X	X/E	O/X	E/E	X	
Pat Link											/X	X/E	E/E	X/X	O/X	X/X	X/E	X/E	X/X	X/O	X	
Blake Lloyd													X/E	X/X	X/X	X/X	X/X	X/E	X/E	X/X	X/X	X
Bob Lorenz																		X/O	O/O	X/O	X	
Alan Lowe						O/E	X/E	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	X/X	X/X	X/E	X/X	X/X	X/X	X
James Lyles																X/O	O/O	O/O	X/E	O/X	X/O	X
John Malinowski																				X/X	X/X	X
Jim Mantooth																		X/X	X/X	O/O	O/O	X
George Matto	E/O	X/E	E/E	X/E	E/E	X/E	X/E	X/O	E/E	X/O	O/O	X/O	X/O	E/O	X/E	X/E	O/O	X/E	X/E	X/E	X/X	X
Ron Mehofer	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	E/X	X/X	X/X	X/X	X/X	X/X	E/X	X/X	X/X	X/X	X/X	X/X	X
Larry Menche													X/E	X/X	X/O	X/E	E/E	X/X	X/O	E/X	X/E	X
Stan Merritt	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	E/E	E/O	O/E	E/E	X
David Mintzclaff															O/X	O/E	O/E	O/E	X/O	X/E	X/X	X
Zafer Mohuiddin																			-/O	O/E	O/O	O
Robert Montgomery																		-/X	X/X	X/X	E/X	X
Doug Moody																			-/O	X/X	X/E	E
Bob Moore																					X/X	X
Vernon Newbill																	X/O	X/X	E/X	O/E	X/E	E
Frank Newman	X/X	X/X	X/X	X/X	X/X	X/X	X/E	E/E	X/E	X/E	E/X	E/X	X/X	E/E	X/X	X/E	E/E	O/X	X/E	E/E	E/E	X
Clifford Normand																X/X	X/X	X/X	X/X	X/E	X/X	E
Bob Olsson																X/X	X/X	X/X	X/X	X/X	X/X	X
Bud Palmer						X/X	O/X	X/X	X/X	X/X	X/X	X/O	E/X	E/X	X/X	O/O	E/X	X/O	X/E	O/E	X	
Elton Parker	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	E/E	E/E	X
Craig Pinto																					X/X	X
Stephen Pittman														X/X	E/X	X/X	X/X	X/X	X/E	X/E	O/O	O
Larry Pryor																X/E	X/E	X/E	E/E	O/O	O	
Clayt Reid	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X

APPENDIX F

MEMBERSHIP REPORT

Ed Reid									/X	X/X	X/X	X/X	X/X	X/E	E/X	E/X	X/X	X/O	O/O	E/O	X/E	O/E	O
Duncan Rhodes																	X/E	X/X	X/E	X/X	X/X	X/E	X
Todd Robbins																						X/O	E
Roly Roberge																		-/X	X/X	X/E	E/E	O	
Dave Rollay	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	E/X	X/X	X/X	X/E	X/X	X/X	X
James Rooks																	X/O	X/X	X/O	X/X	X/X	X/E	X
Paul Roullier									/X	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/E	X/X	X/X	X/O	X
Richard Schaefer																			-/E	X/E	X/E	X/E	X
Del Seaver														/O	X/X	X/O	X/E	X/X	X/X	X/X	X/X	X/E	E
Ted Sexton									/E	X/E	X/X	X/O	O/O	O/E	X/O	O/O	X/E	X/O	X/O	E/E	X/E	O	
Ralph Shead													/O	X/X	X/X	X/X	X/X	X/X	X/X	O/O	E/X	X	
Ron Simpson				E/X	X/X	X/X	X/X	X/X	X/X	X/O	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	X/X	X/X	X/X	X/X	X
Glenn Smith																			X/O	X/E	E/E	O	
Ray Smith						/X	X/X	X/X	E/E	X/X	X/X	E/X	X/X	X/X	X/X	O/O	X/O	O/O	X/O	O/X	O/O	O	
Malcolm Steeves							E/O	O/X	X/E	O/E	X/E	E/O	X/O	X/E	O/E	X/E	X/E	X/O	X/E	O/E	O/O	O	
Larry Thomas							E/E	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/E	E
John C. Thompson																	X/X	X/X	X/X	X/X	X/X	X/X	X
John R. Thompson	E/E	E/O	X/O	X/X	E/X	X/E	X/O	X/E	X/E	X/X	X/E	X/E	X/E	X/X	X/E	X/X	X/X	X/X	X/E	X/O	X/O	X/E	E
Russ Thrift							X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/X	X/E	X/X	X/X	E
Reno Tonsi							/X	X/E	X/E	X/X	X/X	X/E	X/E	X/X	X/X	X/X	X/O	X/E	E/O	O/E	O/O	O	
Charlie Toole																		X/O	X/E	O/O	O/O	O	
Steven Trussell																			X/O	X/E	X/E	E	
Anibal Valenzuela																			X/E	X/O	X/O	X	
Bill Vilcheck																	/X	X/X	O/X	X/X	X/E	X/X	X
Wayne Vinson															O/X	X/X	X/X	X/X	X/E	E/E	E/E	X	
Erwin von der Ehe																	X/E	X/E	X/O	X/O	X/E	X	
Hank Wachter										X/O	X/E	X/X	X/X	X/E	X/E	X/X	X/X	X/X	E/E	O/X	O/X	E	
Rick Watkins								/X	X/X	X/X	X/O	X/X	E/X	X/X	X/E	O/X	X/X	O/O	O/O	X/X	X/X	X	
Allen Watson																				X/O	X/E	X	
Mark Weaver				X/X	X/E	E/X	E/X	X/X	X/E	X/E	X/X	X/E	X/X	X/X	E/E	X/X	X/E	X/X	X/X	X/X	X/X	E	
Pete Werner													X/O	X/X	X/O	E/E	X/X	X/E	X/X	X/E	X/O	X	
Gary Wetzal																				X/O	O/O	O	
Jim Williams	E/E	O/O	X/X	X/E	X/X	X/X	X/X	E/O	X/E	E/E	X/E	E/O	E/O	X/O	E/E	E/O	O/O	X/O	O/X	X/X	X/X	X	
Charles Wood							E/X	E/X	E/X	E/O	O/X	E/X	E/X	O/O	X/X	E/X	O/O	O/O	X/X	O/O	O/O	O	
Alex Wu		E/X	X/X	X/X	E/X	E/X	X/X	X/E	X/O	X/E	X/X	X/X	X/O	X/X	X/X	X/X	X/O	X/X	X/X	X/X	X/X	X	
Mark Zawadzki																	/X	E/X	X/O	X/X	E/X	O/O	X

APPENDIX G PAPER AWARDS AND PUBLICATIONS

[Technical Papers Selected for Publication from 2002 Conference in Toronto](#)

IAS Magazine

- *“Mill Benefits from Upgrading Generator Protective Relaying”*
Authors: Charles Mozina, Douglas Moody
- *“Cutter Distance Sensor for an Adaptive Position-/Torque Control in Cross Cutters”*
Authors: Dirk Hanson, Prof. Dr.-Ing Joachim Holtz, Prof. Dr.-Ing Ralph Kennel
- *“A Lime Kiln Drive from DC to AC”*
Author: Cameron Carr
- *“24 VDC Control – An Emerging Alternative to Legacy 120 VAC Control Applications in North America”*
Authors: John C. Thompson, David Durocher
- *“E-Mail Etiquette (Netiquette)”*
Authors: John C. Thompson, Blake Lloyd
- *“Surges Transferred Through Transformers”*
Author: J.C. Das
- *“Power Factor Correction in Industrial Facilities Using Adaptive Excitation Control of Synchronous Machines”*
Authors: M.M. Al-Hamrani, A Von Jouanne, A Wallace
- *“The Evolution of Power Quality Data Acquisition Systems – Triggering to Capture Power Quality Events”*
Authors: Dan Carnovale, Dan Ellis
- *“Making Transformer Losses Part of the Purchasing Decision”*
Authors: Stanley Merritt, Stuart D. Chaitkin
- *“AC Induction Motor Specifications An Update on Currently Available Procedures and Options”*
Authors: John Malinowski, Jim McCormick
- *“Complete Relay Protection of Multi-String Fuseless Capacitor Banks”*
Authors: Leo Fendrick, Tim Day, Karl Fender, Jack McCall, Arvind Chaudhary,

[Technical Papers Selected for Publication from 2002 Conference in Toronto](#)

Industry Application Transactions

- *“TMP Optimization Using Multivariate Analysis”*
Author: Mike Elsinga
- *“Voltage Versus VAR/Power Factor Regulation on Synchronous Generators”*
Authors: Thomas Eberly, Richard Schaefer
- *“Sensorless Tension Control in Paper Machines”*
Authors: Anibal Valenzuela, John Bentley, Robert Lorenz

- *“Reliability Considerations of Multifunction Protection”*
Author: Gerald F. Johnson

- *“Thermal Evaluation for Applying TEFC Induction Motors on Short-Time and Intermittent Duty Cycles”*
Authors: Anibal Valenzuela, Pablo Verbakel, James A. Rooks

- *“Motor Temperature Considerations for Pulp and Paper Mill Applications”*
Authors: Tim Albers, Austin H. Bonnett

- *“Bus Transfer Systems: Requirements, Implementation, and Experiences”*
Authors: Amit Raje, Anil Raje, Jack McCall, Arvind Chaudhary

- *“Applying the Directional Neutral, 67N Function in Microprocessor Multifunction Relays”*
Author: Felix Nepveux