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Meeting: **SP67 Nuclear Power Plant Standards Committee**
Chairman: William Sotos
Recorder: Loanna Overcash
Date/Time: June 7, 2005
Location: ISA POWID/EPRI Conference, Nashville, TN
Distribution: ISA SP67 Committee

Attendees

William Sotos	Klemme Herman	Carl Sossman
Tim Hurst	Pete VandeVisse	Steve Sykes
Hukam Garg	Mike Dougherty	
Pravin Shah	Ron Calvert	
Rick Tuley	Jim Redmon	

Guest: Jadu Das

Call to Order

1:05pm

Introduction of Attendees

Introductions were made.

Approval of Minutes

A motion was made to accept the minutes as written.

Review and Approval of Agenda

The agenda was approved as written.

Correspondence and Announcements

Rudy Neudstadter has retired and resigned from all of his POWID and SP67/SP67.02/SP67.04 activities.

Administrative

The following standards are up for reaffirmation by the SP67 committee:

ANSI/ISA-67.02.01-1999 - *Nuclear Safety-Related Instrument Sensing Line Piping and Tubing Standard for Use in Nuclear Power Plants*

This document will be balloted for reaffirmation.

ISA-67.04.01 – is ready to be submitted to the SP67 committee for balloting.

ANSI/ISA-67.14.01-2000 - *Qualifications and Certification of Instrumentation and Control Technicians in Nuclear Facilities*

A motion was made by Tim Hurst and seconded by Rick Tuley to retire this standard – the motion was approved.

Action: L. Overcash will ballot the SP67 committee on the above documents.

Standards and Practices Board Report

Action: L. Overcash will add the minutes from the Portland, OR meeting as an attachment to these minutes. (See Attachment B)

Action: L. Overcash will follow-up with Bill Sotos on S&P Awards for recognition, etc.

POWID Report

W. Sotos will submit a report. (See Attachment A)

Liaison Reports

IEEE Liaison Report - Mike Dougherty reported on IEEE activities from their San Diego meeting:

- SC-2 on Qualification –
- 2003 version has been published and anticipate NRC endorsement.
- Hukam Garg didn't know if it has been endorsed yet.
- Joint IEEE/IEC logo into the standard itself
- Definition discussion on harsh vs mild environment
- Next revision of 323 needs to clarify positions relative to qualification.
- Should 323 address quality itself to ISA9001 Appendix B? Consensus was that it should not be addressed but Chairman rejected that so it will have some statements regarding QA but it will not be in a prescriptive manner.
- 344 – submitted for publishing June 2005 Seismic Perspective
- 334 – Motor Qualification – working on revision – closely aligned to 323 – draft in Jan 2006
- 382 – MOV – revision balloted in September 06
- 383 – no report but AD HOC committee on Fiber Optics – will proceed and create a standard on Fiber Optic Cables
- 572 – Connectors – Mild vs Harsh environment boundaries Draft by 10/05
- 650 – Battery chargers & inverters - draft has been submitted – mild environment – statement added to abstract – if not specifically addressed in another standard then this could be used for mild environment qualification
- 649 – MCC's – reaffirmed in 9/04 – addressing newer tech available on MCC's - draft expected April 06
- Miscellaneous Presentations
- Perimeter and IT Security
- GE presented on active strainers

Roster Clean-up

The following Voting Members were discussed and questioned as to their active status on the roster:

Richard Allen – remove from the committee
Banaj Basu – double check if he wants to remain as an Info member
Steve Hedden – change to Info Member
Jerry Mauck – change to Info Member
Larry Sandlin – change to Info Member
Greg Sensmeier – change to Info Member
Ivan Sturman – remove from roster
Reed Wiegler – change to Info Member

Action: Loanna Overcash will contact everyone as to the change in their voting status.

Carl Sossman made the motion and Jim Redmon seconded and all approved to make the above changes on the roster.

The following people have requested to become Voting Members

John Guider – Constellation
Bruce Rausch – SCE – will be added as Info Member bc of J. Redmon
Pete VandeVisse – AEP
Robert Stevens – US Dept. of Energy
Steve Sykes – Invensys

Add Pravin Shah and Bruce Rausch as Info Members

An amendment to the motion was made by Klemme Herman and seconded by Jim Redmon to keep Robert Stevens as an Information member until more information can be obtained about him. The amended motion was approved.

All approved to add the remaining three as voting members to the SP67 roster: John Guider, Steve Sykes and Pete VandeVisse.

Committee Status

SP67.02 – Klemme Herman and Carl Sossman will report to Bill Sotos and Loanna Overcash on recommendations for this document. A report will be submitted by the end of July as to whether to revise or reaffirm.

SP67.04 – The subcommittee met Monday and Tuesday. The standard has been tweaked and will be submitted to the SP67 committee for balloting. The RP will be revisited. The TR67.04.09 will be submitted to the S&P Board for approval.

Bob Queenan has expressed an interest in stepping down from the committee as Chairman. There are two candidates to take over the chairmanship and the SP67 committee may eventually need to vote on this unless a co-chairmanship is agreed upon.

SP67.06 –Bill Sotos suggested that the subcommittee start considering a revision to this document since it will need to be updated in the future. Subcommittee Chairman, Jim Redmon, will look into issues with the NRC and anything from the SP67.04 group to determine if more information needs to be incorporated into this standard.

SP67.14 – The standard will be balloted by the SP67 committee for withdrawal.

SP67.16 – The subcommittee is still inactive.

SP67.03 – the subcommittee should be restarted to continue the work with this standard. Jim Redmon will speak to Bruce Rausch, who has experience in this area, to inquire if he would be interested in heading this effort.

It is an issue and the technology isn't capable of doing what is desired. Tim Hurst made the motion and Carl Sossman seconded to activate this subcommittee again and to actively seek a chairman. The motion was passed.

Action: Need to post the published document on the SP67.03 web page if is not already there.

SP67.04 Allowable Value Issue – The NEI/NRC will be meeting this week. We will keep the committee updated on the current situation.

New Business

Tim Hurst brought up the issue of IEEE's efforts to write a standard on Fiber Optic Cable – Jan Perron will be the chairman of the effort. Tim Hurst will pursue getting a representative on this committee.

Mike Dougherty will follow-up with Tim Hurst with contact information.

Next Meeting Plans

Currently there are no plans to meet again until POWID 2006 in San Jose, CA.

Adjournment

The meeting was adjourned at 2:41pm.

Attachment A

ISA67 COMMITTEE REPORT TO POWID & S&P BOARD June 30, 2005

Submitted by William G. Sotos

ISA67 Committee Status – Chairman W. Sotos

The committee last met on June 7, 2005 in Nashville, TN. The primary focus of this meeting was an ongoing issue with the Nuclear Regulatory Commission regarding the calculation of allowable values that SP67.04 is addressing, 67.04 activity, the status of SP67.03, subcommittee membership and subcommittee vacancies.

The ISA67 committee membership roster was cleaned-up to remove inactive members from voting status. Three (3) members were removed completely and five (5) were changed to “information” status. Committee balance was considered when making these changes.

The ISA67 committee plans to next meet in San Jose, CA during the ISA POWID Conference to be held June 4-9, 2006.

Subcommittee Status

ISA67.01 *Transducer and Transmitter Installation for Nuclear Safety Applications* Chairman – Vacant

The standard, 67.01-1994, Transducer and Transmitter Installation for Nuclear Safety Applications. No activity is planned at this time.

ISA67.02 *Instrument Sensing Line Piping and Tubing Standards for Use in Nuclear Power Plants* Chairman – Vacant

The ANSI/ISA-S67.02.01-1999 standard is due for revision or reaffirmation. A small working group will be making a recommendation (by the end of July 2005) to reaffirm as-is or revise the standard. A chairman will be named should a revision be required.

ISA67.03 *Reactor Coolant-Pressure-Boundary Leak Detection* Chairman – Vacant

The basic point of interest is Reactor Coolant System (RCS) Leak-Detection. A revision was prepared several years ago but no action taken. However, because of recent industry events, interest in this standard has increased. The 67 committee has determined that there is a need for this standard and therefore is reactivating the committee with the intention of issuing a revised, updated standard. A chairman candidate has been suggested and is being actively recruited.

ISA67.04 *Setpoints for Safety-Related Instrumentation Used in Nuclear Power Plants*
Chairman – R. Queenan

This sub-committee is very active and met in Nashville, TN. The sub-committee is proceeding with the revision to the Standard and Recommended Practice. The present key issue is the Allowable Value (AV) treatment in the proposed revised standard. The approach being offered is to de-couple the Allowable value from any reference the LSSS and to note that the AV is intended to be a method for indicating operability only. The standard has been balloted by the 67.04 sub-committee and has been approved. It is to be balloted by the 67 committee next.

Technical Report TR-9 (Graded approach to Setpoints) has been approved by the 67.04 and 67 committees and is to be submitted to the S&P board for approval in the near future.

Work is about to commence on revising/updating the Recommended Practice (67.04 Part II). This is expected to be a substantial effort that will likely take 2-3 years to complete.

Select members of the 67.04 sub-committee continue to work with NEI (Nuclear Energy Institute) in regard to the ongoing Allowable Value issue raised by the NRC (Nuclear Regulatory Commission). The issue has not reached final resolution at the time of this writing.

Two web-based meetings were held between the face-to-face meetings held at the POWID conferences. These had good productivity and attendance and were well organized. Because of their success, the 67.04 sub-committee plans to have more of these type of meetings in the future.

Bob Queenan has expressed a desire to step down as chairman as soon as practical. Long time sub-committee members Bob Fredricksen and Jerry Voss have volunteered to be co-chairman. This change is planned to be formally implemented before September 2005.

ISA67.06 *Response Testing for Nuclear Safety-Related Instrument Channels in Nuclear Power Plants*
Chairman – J. Redmon

Recent issues regarding allowable values (see 67.04 discussion) may potentially impact the 67.06 standard. Chairman Redmon is evaluating the impact, if any, and will make a recommendation (by the end of September 2005) to reaffirm as-is or revise the standard to address any outstanding issues.

ISA67.14 *Qualification and Certification of Instrument and Control Technicians in Nuclear Power Plants*
Chairman – Vacant

Per discussion at the June 2005 ISA67 committee meeting, it has been decided that this standard is no longer required. All US nuclear power plants use other guidance for training and qualification of their I&C technicians. Some non-power nuclear facilities may still use the standard but this is a very small group. The standard will therefore be balloted (before the end of 2005) for the intention of withdrawal.

ISA67.16 *Safety Related, Digital Based System Upgrades at Nuclear Power Plants*
Chairman W. Sotos

The committee is inactive including all working groups.

ISA67.17 *Installation of Non-Conductive Fiber Optic cable in Nuclear Power Plants*
Chairman - Open

This committee is still in the formative stage. It intended to have its first meeting in San Diego (June, 2002) but was unable to meet due to the chairman's unavailability (work related). Further activity is on hold until such time a new chairman is found and a viable committee formed. Interest appears to be minimal at this writing.

Attachment B – S&P Board Minutes from ISA President’s Spring Meeting

ISA Meeting Minutes

Standards and Practices Department Board

Meeting: **Standards and Practices Department Board**
Chairman/Facilitator: Ian Verhappen
Recorder: Lois Ferson
Members Present: Mark Coppler, Erwin Ecayan, Vic Maggioli, Ron Reimer, Nick Sands, Ted Schnaare, Angela Summers, Ian Verhappen, Warren Weidman, Joe Weiss, Marty Zielinski
Members Absent: Farshad Amir, David Bishop, Bernard Dumortier, Wayne Holland, Al Iverson, Ron Jones, Tom McAvinew, Al McCauley, Gordon McFarland, John Rennie, Hisashi Sasajima, Robert Webb, Marge Widmeyer, Chris Williams.
Guests: Lois Ferson, Ramani Iyer, Dan Lee, Peter Lindner, Charley Robinson, Don Zee
Date/Time: Sunday, 1 May 2005, 1:00 – 5:30 p.m.
Location: Marriott, Portland, Oregon
Distribution: S&P Board, Guests, Staff

<i>Item #</i>	<i>Description</i>
1	Call to Order Ian Verhappen called the meeting to order at 1:00 pm.
2	Review & Approval of Agenda Moved by Coppler, seconded by Sands, and approved that the agenda of the 1 May 2005 meeting of the Standards and Practices Board be approved with the following additions: <ul style="list-style-type: none">▪ India Standards Activities (covered under International Report)▪ High Voltage Standards Proposal▪ Update on OMAC▪ Student Standards▪ Surbane Oxley and Legislative Mandates for ISA Standards▪ Congratulations Webb and Widmeyer Motion approved.

3	<p>Approval of Minutes Moved by Summers, seconded by Reimer, and carried that the 3 October 2004 meeting minutes be approved. Motion approved.</p>
4	<p>S&P Department Awards Luncheon Moved by Maggioli, seconded by Sands, and carried that the annual awards luncheon shall continue to be provided at no cost to award recipients and their guests and at a cost of \$25/person for all other attendees. Motion approved.</p>
5	<p>S&P Department Representative to NAMUR Moved by Maggioli, seconded by Sands, and carried that Mr. Helmut Bexecny be appointed as the ISA Representative to NAMUR. NOTE: The appointment was subsequently approved by the Board of Department Vice Presidents.</p>
6	<p>Approval of Committee Resources Moved by Sands, seconded by Summers, and approved that the S&P Board ballot on committee resources is confirmed as follows: Committees to be moved to inactive status: SP31, SP55, SP72, SP79, and SP87; Committees to be merged SP50.1, SP50.2, SP50.3, SP50.4, SP50.5, and SP50.6 with SP50; SP82.01, SP82.02, and SP82.03 with SP82, and SP98.01 with SP98.</p>
7	<p>Standards to be Balloted for Withdrawal or Reaffirmation Moved by Maggioli and seconded by Sands that</p> <ul style="list-style-type: none"> ▪ the following dated standards be balloted for withdrawal via a 10 day default ballot: ISA-RP16.1,2,3-1959; ISA-RP-16.4-1960; ISA-RP-16.5-1961; ISA-RP16.6-1961; ISA-26-1968; ISA-RP55.1-1975 (R1983); ISA-72.01 and ISA-72.02-1993. ▪ and that the SP5 main committee be requested to ballot ISA-51.1-1979 (R1993) for reaffirmation.. <p>Motion approved.</p>
8	<p>Congratulations Webb and Widmeyer Verhappen informed the Board that Bob Webb and Marge Widmeyer had married earlier in the Spring. The Board unanimously moved to extend their congratulations and best wishes to both Bob and Marge.</p>
9	<p>Discuss and Resolve any S&P Board Ballots There were no negative ballots or ballots with comments to be addressed.</p>
10	<p>Traceability Project Sands reviewed the proposal that ISA consider traceability standards through the process and supply chain especially for the food sector. Based on the discussion at this meeting, input from related committees such as SP88, and prior reviews the Board concluded that the topic as presented was too broad and additional clarification or focus was required before any activity could be approved. Sands will inform the original project submitter.</p>

11	<p>HMI Project</p> <p>Verhappen briefly reviewed the report prepared by Robinson on the suggestion that ISA undertake the development of HMI standards or recommended practices. The Board expressed support for this activity. It was agreed that Bingham and Shaw will be asked to chair a survey committee prior to the formal ballot of the proposal by the Board. It was agreed final action could be taken during a proposed Board teleconference call in late June or early July. In the interim Sands is to act as Managing Director.</p>
12	<p>High-Power Research and Development Electrical Systems Project</p> <p>Verhappen briefly reviewed the new work item proposal prepared by Widmeyer proposing that ISA undertake the development of high voltage standards or recommended practices. The Board expressed support for this activity and asked for additional clarification on whether the scope should be broadened to include industrial applications. It was agreed that Widmeyer would be asked to chair the activity as a survey committee and formal action would be taken during the next Board conference call. Weiss is to act as interim Managing Director.</p>
13	<p>Skill Standards Technical Report</p> <p>Ferson reported for Webb and stated the Industrial Instrumentation and Control Technology Alliance (IICTA) have developed information covering critical work functions, key activities, and academic knowledge for instrumentation and control technicians. It is anticipated that IICTA will be presenting their work to the Professional Development Department at this meeting. This work may at some point also be referred to ISA SP98 for future development as a series of technical reports.</p>
14	<p>Department, Liaison, or Managing Director Reports as Required.</p> <p>Managing Directors present provided a brief update of committee activities (Appendix A). ISA President Zee expressed support for the Departments activity and contributions to the furtherance of the Society's objective to set the Standard for Automation. He thanked the members of the Board and Department for their work on behalf of the Society and offered his support as needed.</p>

15	<p>International Report including India Standards Activities</p> <p>Reimer and Ferson reviewed the TC65 Meetings being held in Ottawa Canada noting that there are no controversial items on the agenda. Ferson stated one item to be considered by SC65B in Ottawa is the introduction of a new work proposal by Germany on device characteristics for electronic data exchange. This new work item proposal is based in part on the ongoing efforts of the ISA and NAMUR cooperation. Reimer also reported that NEMA will be the US TAG administrator for the new IEC TC 111 on Environmental issues; Reimer stated this work may be of interest to ISA and specifically ISA committees such as SP76 covering analyzers.</p> <p>India Standards Activities</p> <p>Iyer reported on recent activity to further standards opportunities within India, specifically his attendance at the Bureau of India Standards Meeting for the process measurement sector as well as ISA Interkama India 2005 Conference to be held in October. Verhappen and the Board thanked Iyer for his ongoing efforts on behalf of ISA and expressed support for the continued development of consensus standards within India.</p>
16	<p>2006—2008 Strategic Business Plan and Budget</p> <p>Verhappen stated the Business Plan and Budget process had begun and asked that suggestions or input be submitted to him.</p>
17	<p>Correlating Committee Update for ISA/UL Activity</p> <p>Schnaare and Coppler covered the most recent SP12 activity. While the UL/ISA harmonization process is working and the correlating committee is now functioning, it was noted that ISA committee volunteers provide the majority of the effort and technical input. The first series of standards are now being processed for revision or reaffirmation under the ISA/UL agreement. Schnaare and Coppler will keep the Board informed on the status of the ongoing efforts.</p>
18	<p>UL 2075 (Standard for Gas and Vapor Detectors and Sensors)</p> <p>Coppler informed the Board that UL had obtained ANSI approval for a combustible gas detection standard that overlaps or duplicates material from the 12.13 series. ISA's 12.13 series had been approved by ANSI several years prior to the UL submittal. Ferson and members of the SP12 committee stated that they had missed the ANSI announcement for comment on the UL project. Board members agreed staff, Coppler, and Schnaare should see what actions, if any, could be taken to resolve this apparent conflict, including the possible withdrawal of the UL standard.</p>

19	<p>SP99 Policy Statements</p> <p>Weiss reported that the North American Reliability Council (NERC) had issued guidelines in conflict with ISA's 99 series. Weiss stated members of SP99 believed the resulting NERC guidance would be inadequate for secure power generation in North America. At this meeting ISA's Committee on Engineering, Science, and Technology Policy (CESTP) Committee will be asked to approve a policy statement outlining ISA's concerns and efforts to secure the revision of the NERC guidelines. A formal proposal for future cooperation between ISA and NERC is also underway. NOTE: The policy statement was approved and members of SP99 are currently working to resolve the issues with NERC.</p>
20	<p>SP 84 Appeal</p> <p>Verhappen, Zielinski, Maggioli and Summers reviewed the recent appeal to ANSI on the newly approved ISA 84 series of standards. The Board was informed ANSI had denied the appeal because the appellant had provided insufficient evidence to demonstrate any procedural or process problem. ANSI also stated that ANSI would not address the relative merits of technical issues. Verhappen and the Board extended their thanks to both staff and Board members, Summers and Zielinski, who had represented ISA during the formal ANSI appeal. The appellant, Dr. Beckman, had an opportunity for one further appeal via ANSI's appeal process but declined to pursue this option. Therefore, the approval of the ANSI/ISA 84 series approval stands and no further action is required.</p>
21	<p>New Venture Investment (NVI) Project – Standards Compliance</p> <p>Verhappen briefly reviewed the new venture project designed to study the feasibility and market acceptance of a new service that will assess compliance with ISA standards of software or hardware products, implementation methods/solutions, and companies and/or individuals. Michael Hamm & Associates are the consultants working with ISA and a web survey to determine stakeholder interest is currently underway. Future activity planned under the NVI project will cover a legal assessment, benchmarking of other organizations, and preparation of a final report and business plan as needed. The final results should be available for review at the PFM.</p>
22	<p>S&P Board Director Assignments</p> <p>Verhappen stated that Klaus Peter Lindner and James Tatera would be appointed to the Board at this meeting. He has also announced several changes to committee responsibilities as reflected in Appendix B.</p>
23	<p>Standards Alliance</p> <p>Ferson reported for Jones and stated there had been no activity regarding the standards foundation pending the next meeting of the ISA Foundation Board. Plans have been developed to implement the standards alliance web page at some point in the future.</p>
24	<p>ANSI Audit Preparations</p> <p>Ferson informed the Board that ANSI has not yet contacted ISA to set a date for the 2005 audit. Staff will contact the ad hoc ANSI preparation team as soon as any information is received.</p>

25	<p>S&P Operations in relation to the Sarbanes-Oxley Act of 2002 and Legislative Mandates in S&P Publications</p> <p>Reimer alerted the Board to the compliance concerns that impact for-profit organizations based on the new financial and accounting requirements of the Sarbanes-Oxley Act of 2002. Reimer suggested that the Department might want to investigate the potential ramifications of this Act as relates to non-profits and the (1) the reimbursement of expenses, full or partial, to individuals when attending standards developing activities of other organizations, as well as (2) legislative mandates referencing documents such as Sarbanes-Oxley that could influence the content of documents generated under the auspices of ISA. Reimer moved and Weidman seconded that staff be asked to address these issues and report back to Verhappen once a study had been made. NOTE: Further investigation by staff and review by counsel resulted in the opinion that no action is required at this point.</p>
26	<p>Student Standards</p> <p>Verhappen reported that Reg Wood, Dept VP District 10, had contacted him concerning possible ways to broaden student access to and awareness of ISA standards. Verhappen stated that he intended to engage members of the Image and Membership Department as well as the Professional Development Department to explore avenues to address student standard support by ISA.</p>
27	<p>Report from OMAC Chair</p> <p>Andy McDonald, Chair OMAC, was not present. The OMAC leadership is working with S&P Vice President and staff to identify areas of cooperation and opportunities for future cooperation between OMAC and ISA in the area of standards development. Work is already ongoing with the support of SP88 volunteers on the Make2Pack effort. This work should ultimately result in the publication of Part 5 of the ISA 88 series of standards.</p>
28	<p>Status of Action Items</p> <p>There were no open action items to address.</p>
29	<p>Next Meeting and Adjournment</p> <p>Summers moved and Sands seconded that the meeting be adjourned. Motion approved. A telephone conference call is tentatively scheduled for late June or early July. The next face-to-face meeting will be held in conjunction with the ISA PFM, in Chicago, October 2005.</p>



Setting the Standard for Automation™

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S&P Board Minutes Appendix A – Managing Directors Reports

Maggioli gave a comprehensive report of the SP84 and SP91 activities as well as the related IEC work. Maggioli noted the revision of IEC 61511 (the basis for the 84 series) is on hold until the revision of IEC 61508 is completed. Maggioli noted that there are a number of documents underway within 84 that provide additional guidance on the 84 series, particularly in the areas of burner management, field bus applications, and emc.

Lee reported for Holland and noted that SP77 has been very active, having met at ISA this Spring and stated they are planning to meet again at POWID next month. Progress is being made on the 77.40.01 functional diagramming draft, the 77.70.01 piping installation standard, and the SCR draft under 77.82.

Sands reported that SP18 is meeting in Portland and stated SP18 expects to issue a preliminary draft shortly. Sands reported the committee has had very good support and participation.

Coppler and Schnaare reviewed the ongoing SP12 work stating that the publication of ISA-60079-0 (12.00.01) and ISA-60079-1 (12.22.01) are expected this summer. A number of drafts are well underway, and should be finalized on or before the SP12 meeting later this summer.

Summers reported that the Working Group she chairs under SP84 plans to issue a technical report covering the implementation of the ISA 84 series by the Fall of 2005.

Weidman stated that the SP75 committee is planning to meet in October in Chicago, and noted a number of documents are in the revision cycle such as 75.02.01; the SP96 committee will also meet in Portland. They are making good progress on their draft document.

Weiss noted that SP99 continues to make excellent progress. He noted there is an opportunity for further cooperation with CIGRE. In the discussion of 99 activities it was noted that the work could be accelerated via outside support, such as a paid technical writer, perhaps funded under the auspices of the DHS.

Zielinski stated that SP100 is very active and has good participation; preliminary drafts are scheduled to be available by Chicago.



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Appendix B – Managing Director Assignments and Directors-At-Large

Managing Directors

Mark Coppler

- SP 2—Manometers
- SP12-Intrinsic Safety
- SP74—Weighbridges
- SP82—Electrical Safety
- SP92—Gas Detection

Wayne Holland

- SP77—Fossil Fuel Power

Erwin Icyan

- SP18—Annunciators

Peter Lindner

- SP37 – Transducers

Vic Maggioli

- SP84—Safety Shutdown
- SP9—Criticality Ranking

Tom McAvinew

- SP5—Symbols
- SP7 – Instrument Air

Nick Sands

- SP88—Batch
- SP95—MES
- SP101(survey)—HMI

Jim Tatera

- SP20—Spec Forms

- SP76—Composition Analyzers

Robbert Webb

- SP50—Fieldbus
- SP67—Nuclear Power Plants
- SP98—Certification
- SP99—Security

Warren Weidman

- SP75 – Control Valves
- SP93 – Seal Leakage
- SP96—Valve Actuators
- SP97—In-Line Sensors

Marjorie Widmeyer

- SP42—Tube Fittings
- SP52—Environmental Labs
- SP71—Environmental Conditions
- SP90—Grounding

Joe Weiss

- SP102 (survey) —High Voltage

Marty Zielinski

- SP100—Wireless Systems

Directors-At-Large

Farshad S. Amir

David Bishop

Bernard Dumortier

Al Iverson

Ron Jones

Al McCauley

Gordon McFarland

Ron Reimer

John Rennie

Hisashi Sasajima

Ted Schnaare

Angela Summers

