Meeting:	ISA77 Fossil Power Plant Standards Committee
Chairman:	Sinming Kwong
Recorder:	Eliana Brazda/Sinming Kwong
Date/Time:	Feb 24, 2021; 11:30 am – 12:30 pm EST.
Location:	Microsoft Teams Meeting
Distribution:	ISA77 Members
	ISA77 Working Group Members
	Charley Robinson – Director, ISA Standards Administration
	Eliana Brazda – ISA Standards Administrator
	Torry Bailey – ISA Standards Administrator
	Dennis Zetterberg - VP, ISA S&P Board
	Kim Belinsky – ISA Manager, Conferences and Events
	Josh Long – ISA POWID Director
	Joe Weiss – ISA77 S&P Managing Director

Attendees:

Members	Guests
Sinming Kwong (Chair)	Michael Bischof
Joe Weiss (Managing Director)	Taranjitsingh Sardar
Lihua Bai	
Mike Cushing	
John Mark Faurot	
Andy Gavrilos	
Mohamed Ibrahim	
Henrik Johansen	
Dan Lee	
Xinsheng Lou	
Mohamed Sayed	
Jacques Smuts	
Torry Bailey (ISA Staff)	
Eliana Brazda (ISA Staff)	

1.   Call to Order

The ISA77 Fossil Fuel Power Plant standards committee meeting was called to order at 11:35 am EST by ISA77 Chair, Sinming Kwong.

2. Introduction of Attendees

Members attending announced themselves. Sinming welcomed Michael Bischof and Taranjitsingh Sardar as guests.

3. Review & Approve Agenda

The ISA77 committee meeting agenda was distributed previously with the meeting invitation. Sinming asked if there were any other comments or corrections to the agenda. With no changes, the agenda was approved as written (**Attachment A**).

4. Review & Approve Minutes of Last Meeting

The February 12, 2020 ISA77 committee meeting minutes were distributed electronically for review and comment on February 14, 2020. With no reported changes, the previous minutes were approved.

5. Chair Opening Remarks

Sinming Kwong welcomed all ISA77 members to the Microsoft Teams meeting and thanked everyone for their attendance and contribution. Sinming acknowledges that 2020 was an unprecedented year with many personal and business challenges.

To the Chair's knowledge, since last meeting, only ISA-77.22.01 Power Plant Automation working group has meetings. The purpose of this meeting is to review the status of documents in draft, in revision cycle, or in reaffirmation cycle.

Eliana said that Skype has been replaced by Microsoft Teams as standard virtual meeting software in ISA.

6. Managing Director Opening Remarks

Joe Weiss did not make any opening remarks.

7. ISA77 Active Working Group Reports

Working Group	Published	Status	Chair Report
ISA 77.00 General			
ISA77.00.01 Definitions and Design Consideration	2019	Current Technical Report	Dan reported that the document has been published. Eliana can email to members.
ISA77.10 Turbine Series			
ISA77.13 Turbine Steam Bypass Systems	2008	In Revision cycle	Alan Robertson was not present. Dan Lee said that the working group is preparing new content for turbine bypass of a combine cycle unit. Sinming will contact Alan for status.
ISA77.14.01 Steam Turbine Controls	2019	In Reaffirmation cycle	Sinming reported that the document has been approved by S&P Board and will be published shortly. Eliana will follow-up.

Working Group	Published	Status	Chair Report
ISA77.20 Plant-wide Series			
ISA77.20.01 Fossil Power Plant Simulators	2012	In Reaffirmation cycle	Bill Talbot would like to solicit new members.
ISA77.22.01 Power Plant Automation		New Standard	Working group has been meeting virtually in a weekly basis.
ISA77.30 Plant Performance Series			
TR77.30.01 Dynamic Performance for Power Plant Control Systems	2015	Current Technical Report	Report not required
ISA77.40 Boiler Series			
TR77.40.01 Functional Diagramming	2016	Current Standard	Report not required.
ISA77.41.01 Boiler Combustion Controls	2016	Current Standard	Report not required.
ISA77.42.01 Feedwater Control – Drum Type	2019	Current Standard	Report not required.
TR77.42.02 Feedwater Controls-Drum Level Measurement	2014	Current Technical Report	Sinming reported that this document will not start its reaffirmation cycle until a need has been identified.
ISA77.43.01 Unit Plant Demand Development	2014	Current Standard	Sinming reported that this document will not start its reaffirmation cycle until a need has been identified.
ISA77.44.01 Steam Temperature Controls	2013	In Revision cycle	Eliana will send the pre-ballot version to Sinming.
ISA77.60 HMI Series			
ISA77.60.02 HMI: Hard Panel Alarms	2014	Current Recommended Practice	ISA 77.60.02 document is probably not relevant as HMI has mostly gone to soft control. As such, ISA 77 does not plan to reaffirm this document.
ISA77.60.04 HMI: Electronic Screen Displays	2013	Current Technical Report	The ISA 101 document is more current and more extensive than ISA 77.60.04 document. As such, ISA 77 does not plan to reaffirm this document.
RP77.60.05 HMI: Task Analysis	2012	Current Recommended Practice	Sinming reported that this document will not start its reaffirmation cycle until a need has been identified.
ISA77.70 Instrument Series			
TR77.70.01 Tracking and Controlling Instrument Documentation in Fossil Power Plants	2015	Current Technical Report	Report not required
ISA77.70.02 – Instrument Piping Standards	2014	Current Standard	Sinming reported that this document will not start its reaffirmation cycle until a need has been identified.
ISA77.80 Post Combustion Series			
ISA77.82.01 – SCR Instrumentation and Controls Standard	2019	Current Standard	Report not required.

8. Liaison Reports

NFPA 85 – *Boiler and Combustion Systems Hazards Code* - NFPA 85, 2019 Edition, is now available for purchase in NFPA website.

ISA 75 - *Control Valve Standards* – The ISA 75 standards committee has published ANSI/ISA-75.05.01-2019 *Control Valve Terminology*. The standard provides a glossary of definitions commonly used in control valve applications across industry.

ISA 84 – *Instrumented Systems to Achieve Functional Safety in the Process Industries* - ISA TR84.00.05-2020, Part 1, *Guidelines for the Implementation of ANSI/ISA-61511-1-2018* has been published.

ISA 99 - *Industrial Automation & Control Systems (IACS) Security* – ISA 99 standards committee held virtual plenary meetings in October 2020 concerning ISA/IEC 62443 standards.

The standards committee published ANSI/ISA-62443-3-2-2020, *Security for industrial automation and control systems - Part 3-2: Security risk assessment for system design.*

ISA 101 – *Human-Machine Interfaces* - The ISA101 standards committee has now published the first in a series of technical reports to provide further guidance in key areas of HMI. ISA-TR101.02-2019 *HMI Usability and Performance* addresses the specification, design, implementation details, and management of an HMI focused on usability and performance.

9. **Old Business**

   a) Sinming reminded members to solicit individuals within the Power Industry to join the ISA77 committee.

   b) Sinming reminded members that the Vice Chair position is open.

10. **New Business**

There was no new business raised by attendees.

11. **Time & Date of Next Meeting**

Sinming reported that the next ISA77 Microsoft Teams meeting will be on (Wed) June 23, 2021 at 11:30 am EDT.

12. **Adjournment**

Sinming motioned to adjourn the ISA77 committee meeting. The ISA77 committee meeting was adjourned at 12:30 p.m.

EBrazda /SKwong
File: ISA77_Minutes_02242021 Rev1.doc

Attachment A – Meeting Agenda

Setting the Standard for Automation™   **Meeting Agenda**

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Chairman:	Sinming Kwong
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	Josh Long – ISA POWID Director
	Joe Weiss – ISA77 S&P Managing Director

Item #	Start Time	Duration	Description	Person Responsible
1	11:30	0:00	CALL TO ORDER	ISA77 Chair
2	11:30	0:00	INTRODUCTION OF MEMBERS and GUESTS	ISA77 Chair
3	11:30	0:05	REVIEW AND APPROVAL OF AGENDA	ISA77 Chair
4	11:35	0:05	CONFIRM APPROVAL OF PREVIOUS MEETING MINUTES	ISA77 Chair
5	11:40	0:05	ISA77 CHAIR OPENING REMARKS	ISA77 Chair
6	11:45	0.00	MANAGING DIRECTOR OPENING REMARKS	ISA77 Managing Director
7	11:45	0:30	ISA77 ACTIVE WORKING GROUP REPORTS	

ISA77 Working Group	Published Date	Status - (EPR Date)	Chairperson	Comments
ISA77.00 General				
ISA-TR77.00.01 Definitions and Design Consideration	2019	New Technical Report	Dan Lee	Document approved but not published.
ISA77.10 Turbine Controls				
ISA-77.13.01 Turbine Steam Bypass Systems	2008	In Revision	Alan Robertson	Working group in progress.
ISA-77.14.01 Steam Turbine Controls	2019	In Reaffirmation	Alan Robertson	Document approved but not published
ISA77.20 Plant Wide Systems				
ISA-77.20.01 Fossil Power Plant Simulators	2012	Current Standard	Bill Talbot/Alex Lekich	Committee work inactive
ISA-77.22.01 Power Plant Automation		New Technical Report	Henrik Johansen	Draft in progress

Attachment A – Meeting Agenda

ISA77 Working Group	Published Date	Status - (EPR Date)	Chairperson	Comments
ISA77.30 Plant Performance				
ISA-TR77.30.01 Dynamic Performance for Power Plant Control System	2015	Current Technical Report	Cyrus Taft	
ISA77.40 Boiler Controls				
ISA-TR77.40.01 Functional Diagramming	2016	Current Technical Report	Daniel Lee	
ISA-77.41.01 Boiler Combustion Controls	2015	Current Standard	Xinsheng Lou	
ISA-77.42.01 Feedwater Control	2019	Current Standard	Jerry Gilman/ Mike Cushing	
ISA-TR77.42.02 Feedwater Controls- Drum Level Measurement	2014	Current Technical Report	Jerry Gilman	Delay reaffirmation
ISA-77.43.01 Unit Plant Demand Development	2014	Current Standard	Mike Cushing/ Dan Lee	Delay reaffirmation
ISA-77.44.01 Steam Temperature Controls	2013	In revision	Paul Hollingshead	Ballot issued 5/10/2019. Ballot closed/approved on 6/11/2019 with comments.
ISA77.60 Human Machine Interface				
ISA-RP77.60.02 HMI: Hard Panel Alarms	2014	Current Recommended Practice		Delay reaffirmation
ISA-TR77.60.04 HMI: Electronic Screen Displays	2013	Current Technical Report		Delay reaffirmation
ISA-RP77.60.05 HMI: Task Analysis	2012	Current Recommended Practice		
ISA77.70 Instrument Piping Installation				
ISA-TR77.70.01 Tracking and Reporting Instrument Documentation	2015	Current Technical Report	Jody Damron	
ISA-77.70.02 Instrument Piping	2014	Current Standard	Gary Cohee	Delay reaffirmation
ISA77.80 Continuous Emission Monitoring				
ISA-77.82.01 SCR Instrumentation and Controls Standard	2019	Current Standard	Cyrus Taft	Document now published.

Item #	Start Time	Duration	Description	Person Responsible

8	11:45	0:05	Liaison Reports
			  a) NFPA
			  b) Other
				ISA77 Chair

9	11:50	0:05	Old Business
			  a) ISA77 Vice Chair
			  b) Solicit new ISA77 members
			  c) Skype meeting for standards
				ISA77 Chair

10	11:55	0:05	New Business 1. Open	ISA77 Chair
11	12:00	0:00	NEXT MEETING 06/23 MS Teams Meeting @ 11:30 am EST	ISA77 Chair
12	12:00	0:00	ADJOURNMENT	ISA77 Chair

SK (02/21)