Meeting:	ISA77 Fossil Power Plant Standards Committee
Chairman:	Sinming Kwong
Recorder:	Eliana Brazda / Sinming Kwong
Date/Time:	November 17, 2021, 11:30 am – 12:10 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
Eliana Brazda (ISA Staff)	
Lihua Bai	
Bill Bugbee	
Arijit Chakraborty	
Elizabeth Clarkin	
Mike Cushing	
John Mark Faurot	
Henrik Johansen	
Xinsheng Lou	
Dan Lee	
Jacques Smuts	
Cyrus Taft	
Shams Ul Islam Haleem	

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 announced that Shams Ul Islam was approved as ISA77 voting member in May 2021.

Sinming said that there is a ballot for Arijit Chakraborty's approval as a voting member; the deadline is on December 9, 2021.

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 24, 2021 ISA77 committee meeting minutes were distributed electronically for review and comment. 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 2021 was an unprecedented year with many personal and business challenges.

Sinming said that there were no face-to-face meetings in 2021 due to the COVID-19 pandemic. He will notify members if there is a Power Industry Division (POWID) symposium or any in-person meetings in 2022.

Sinming said that the ISA scholarship portal will re-open in December 2021.

To the Chair's knowledge, since the last meeting, only the ISA77.22 Power Plant Automation working group has held meetings.

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
ISA77.00 General			
ISA-TR77.00.01 Definitions and Design Consideration	2019	Current Technical Report	Document published.
ISA77.10 Turbine Series			

Working Group	Published	Status	Chair Report
ISA-77.13.01 Turbine Steam Bypass Systems	2008	In Revision cycle	Alan Robertson resigned from Chair position. Actively seeking new Chair to lead the group.
ISA-77.14.01 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.
ISA77.20 Plant-wide Series			
ISA-77.20.01 Fossil Power Plant Simulators	2012	In Reaffirmation cycle	Actively seeking members to join the group.
ISA-77.22.01 Power Plant Automation		New Standard	Working group has been meeting virtually on a weekly basis.
ISA77.30 Plant Performance Series			
ISA-TR77.30.01 Dynamic Performance for Power Plant Control Systems	2015	Current Technical Report	Report not required
ISA77.40 Boiler Series			
ISA-TR5.1.01 / ISA-TR77.40.01 Functional Diagramming	2016	Current Technical Report	Report not required.
ISA-77.41.01 Boiler Combustion Controls	2016	Current Standard	Report not required.
ISA-77.42.01 Feedwater Control – Drum Type	2019	Current Standard	Report not required.
ISA-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.
ISA-77.43.01 Unit Plant Demand Development	2014	Current Standard	Sinming reported that this document will not start its reaffirmation cycle until a need has been identified.
ISA-77.44.01 Steam Temperature Controls	2013	In Revision cycle	Seeking volunteers to review references in the document.
ISA77.60 HMI Series			
ISA-RP77.60.02 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, ISA77 does not plan to reaffirm this document.
ISA-TR77.60.04 HMI: Electronic Screen Displays	2013	Current Technical Report	The ISA101 document is more current and more extensive than the ISA 77.60.04 document. As such, ISA77 does not plan to reaffirm this document.
ISA-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			
ISA-TR77.70.01 Tracking and Controlling Instrument Documentation in Fossil Power Plants	2015	Current Technical Report	Report not required
ISA-77.70.02 Instrument Piping Standards	2014	Current Standard	Dan Lee said that the document is closely tied to ISA-5.1. Dan reported that the ISA5.1 WG may start revising the ISA-5.1 document soon.
ISA77.80 Post Combustion Series			

Working Group	Published	Status	Chair Report
ISA-77.82.01 SCR Instrumentation and Controls Standard	2019	Current Standard	Report not required.

8.   Liaison Reports

NFPA 85

Sinming reported that the next revision of NFPA 85 is scheduled for 2023.
NFPA 85 has task groups to review the following:
- Definition of Master Fuel Trip (MFT) Relay
- Vent Valve Sizing
- Coordination with NFPA 37 Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines
- Hydrogen Fuel
- Safety Integrity Level (SIL)

CSA B149.3-20 – *Code for the field approval of fuel-burning appliances and equipment*

Sinming reported that Canada has additional CSA code requirements:
- Although the CSA B149.3-20 Code is similar to NFPA 85 (2019 Ed.), there are differences.
- Please be aware of local codes for international projects.

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.

c) Eliana said that Microsoft Teams is now the official ISA meeting software.

10.   New Business

There was no new business raised by attendees.

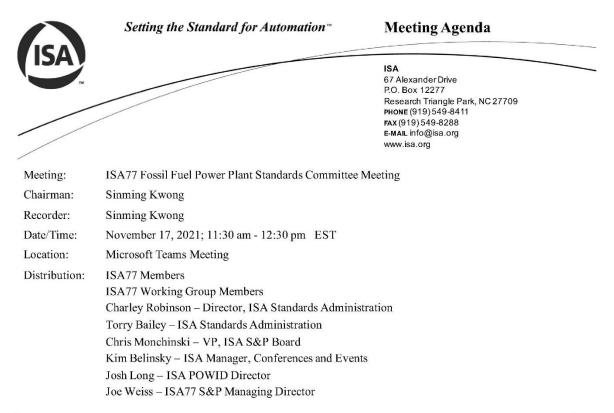## 11.   Time & Date of Next Meeting

Sinming reported that the next ISA77 Microsoft Teams meeting will be on (Wednesday) March 16, 2022 at 11:30 am EDT.

12.   Adjournment

Sinming motioned to adjourn the ISA77 committee meeting. The ISA77 committee meeting was adjourned at 12:10 p.m.

EBrazda /SKwong
File: ISA77_Minutes_11172021 Rev0.docx

Attachment A – Meeting Agenda

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

Meeting:	ISA77 Fossil Fuel Power Plant Standards Committee Meeting
Chairman:	Sinming Kwong
Recorder:	Sinming Kwong
Date/Time:	November 17, 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
	Torry Bailey – ISA Standards Administration
	Chris Monchinski – VP, ISA S&P Board
	Kim Belinsky – ISA Manager, Conferences and Events
	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 published.
ISA77.10 Turbine Controls				
ISA-77.13.01 Turbine Steam Bypass Systems	2008	In Revision	Alan Robertson (Retired)	Seeking new Chair to lead.
ISA-77.14.01 Steam Turbine Controls	2019	In Reaffirmation	Alan Robertson (Retired)	Document approved by S&P Board.
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	Report not required.
ISA77.40 Boiler Controls				
ISA-TR77.40.01 Functional Diagramming	2016	Current Technical Report	Daniel Lee	Report not required.
ISA-77.41.01 Boiler Combustion Controls	2015	Current Standard	Xinsheng Lou	Report not required.
ISA-77.42.01 Feedwater Control	2019	Current Standard	Jerry Gilman/ Mike Cushing	Report not required.
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	Need help to clean up document.
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		Report not required.
ISA77.70 Instrument Piping Installation				
ISA-TR77.70.01 Tracking and Reporting Instrument Documentation	2015	Current Technical Report	Jody Damron	Report not required.
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	Report not required.

Item #	Start Time	Duration	Description	Person Responsible

8	11:45	0:05	Liaison Reports
			    a) NFPA
			    b) CSA
				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 (Wed) 03/16 MS Teams Meeting @ 11:30 am EST	ISA77 Chair
12	12:00	0:00	ADJOURNMENT	ISA77 Chair

SK (11/21)