



ISA
67 Alexander Drive
P.O. Box 12277
Research Triangle Park, NC 27709
PHONE (919) 549-8411
FAX (919) 549-8288
E-MAIL info@isa.org
www.isa.org

Meeting: ISA77 Fossil Power Plant Standards Committee
Chairman: Sinming Kwong
Recorder: Eliana Brazda / Sinming Kwong
Date/Time: May 17, 2023; 11:30 am – 12:30 pm EDT
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
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

Attendees:

Members

Guests

Sinming Kwong (Chair)
Eliana Brazda (ISA Staff)
Lihua Bai
Mike Cushing
John Mark Faurot
Roger Lesaca
Xinsheng Lou
Mohamed Sayed

1. Call to Order

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

2. Introduction of Attendees

There are no new ISA77 members admitted in the past six months.

ISA77 Chair acknowledged the presence of information members, Lihua Bai.

3. Review & Approve Agenda

The ISA77 committee meeting agenda was distributed previously with the meeting invitation. The Chair 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 November 16, 2022 ISA77 committee meeting minutes were distributed electronically for review and comment. With no reported changes, the previous minutes were approved.

5. Chair Opening Remarks

ISA77 Chair welcomed all ISA77 members to the Microsoft Teams meeting and thanked everyone for their attendance and contribution.

Fuel prices affect cost of power generation. According to US Energy Information Administration (EIA), natural gas price climbed to \$8.81 per million BTU in last August and fell to \$2.16 per million BTU in March 2023. Similarly, coal price went above \$458 per ton in last September, stayed relatively constant near \$400 per ton, and fell to \$163 per ton in May. Energy prices are expected to rise during summer months.

Utilities continue with coal-to-gas conversion projects and upgrading their combined cycle power plants. Investments continue to be made in renewables such as wind, solar, and hydro.

Generally, life has returned to normal. According to Dr. Ashish Jha during an NPR interview, he said that there are still about 150 deaths per day from COVID in USA. Please be careful and follow CDC recommendations.

ISA77 Chair said that there is no POWID symposium planned. Presently, ISA77 is discussing the possibility of face-to-face meetings in Oct 2023; more information will come shortly. Please check ISA Connect for the latest events, webinars, and news. <https://connect.isa.org/events/calender>

ISA77 Chair thanked all the men and women working in the energy sector continuing to provide valuable services and maintaining critical infrastructure.

To the Chair’s knowledge, since last meeting, only ISA-77.22.01 Power Plant Automation and ISA-77.44.01 Steam Temperature Controls working groups had meetings.

6. Managing Director Opening Remarks

Joe Weiss was absent.

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	Report not required.
ISA77.10 Turbine Series			
ISA77.13.01 Turbine Steam Bypass Systems	2008	In Revision cycle	Alan Robertson resigned from Chair position. Actively seeking new Chair to lead the group.
ISA77.14.01 Steam Turbine Controls	2019	Current Technical Report	Published in August 2022. Report not required.
ISA77.20 Plant-wide Series			
ISA77.20.01 Fossil Power Plant Simulators	2012	In Reaffirmation cycle	Lihua Bai will solicit volunteers within Emerson.
ISA77.22.01 Power Plant Automation		New Standard	Ballot approved and comments resolved. Eliana will get it publish.
ISA77.30 Plant Performance Series			
TR77.30.01 Dynamic Performance for Power Plant Control Systems	2015	Current Technical Report	Delayed reaffirmation.
ISA77.40 Boiler Series			
TR77.40.01 Functional Diagramming	2016	Current Technical Report	Delayed reaffirmation.
ISA77.41.01 Boiler Combustion Controls	2016	Current Standard	Delayed reaffirmation.
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	Delayed reaffirmation.
ISA77.43.01 Unit Plant Demand Development	2014	Current Standard	Delayed reaffirmation.
ISA77.44.01 Steam Temperature Controls	2013	In Revision cycle	Reviewing ballot comments. Bi-weekly meeting is set up; next meet on Tue 05/30 11:00 am.
ISA77.60 HMI Series			
ISA77.60.02 HMI: Hard Panel Alarms	2014	Current Recommended Practice	Retired. Please refer to ISA101.

Working Group	Published	Status	Chair Report
ISA77.60.04 HMI: Electronic Screen Displays	2013	Current Technical Report	Retired. Please refer to ISA101.
RP77.60.05 HMI: Task Analysis	2012	Current Recommended Practice	Delayed reaffirmation.
ISA77.70 Instrument Series			
TR77.70.01 Tracking and Reporting Instrument Documentation in Fossil Power Plants	2015	Current Technical Report	Report not required.
ISA77.70.02 – Instrument Piping Standards	2014	Current Standard	Retired. Please refer to ISA5.1.
ISA77.80 Post Combustion Series			
ISA77.82.01 – SCR Instrumentation and Controls Standard	2019	Current Standard	Report not required.

8. Liaison Reports

a) ISA5.1 Instrumentation Symbols and Identification

Dan Lee is the ISA77 liaison for ISA5.1. He reported that there will be a lot of changes to the document. He is maintaining of list of changes for ISA77.40.01 Function Diagramming to address. It will take several months before ISA5.1 is ready for balloting.

b) ISA84.00.05 Guidance on the Identification of Safety Instrumented Functions (SIF) in Burner Management Systems (BMS)

Sinming Kwong is the ISA77 liaison for ISA84. He reported that there was a face-to-face meeting held in Houston TX on May 9-10. Many attended virtually. He said that the purpose of meeting was to identify the scope, the 10 working groups, and looking for leads for certain groups.

c) NFPA 85

NFPA 85, 2023 Edition, has been released. The color of the book is no longer red. The PDF version has been discontinued.

d) ISA Standards Publication

Sinming reported that the following ISA technical report has been published in 2023:

- ISA TR5.9-2023 Proportional-Integral-Derivative (PID) Algorithms and Performance

9. Old Business

- a) The ISA77 Vice Chair position is open. If interested, please contact ISA Chair.
- b) ISA Chair reminded members to solicit individuals within the Power Industry to join the ISA77 committee.
- c) In 2023 Spring, ISA77 voting membership reaffirmation has been completed.

10. New Business

- a) There is a possibility for ISA77 face-to-face meetings coincided with ISA Automation & Leadership Conference (ALC) in Colorado Springs on Oct 4-6. The meetings will take place in a separate venue or hotel from ALC meetings. ISA Chair will schedule another meeting for specific discussion.

11. Time & Date of Next Meeting

Sinming reported that the next ISA77 Microsoft Teams meeting will be on (Wed) Nov 15, 2023 at 11:30 am EST.

12. Adjournment

Sinming motioned to adjourn the ISA77 committee meeting. The ISA77 committee meeting was adjourned at 12:05 pm.

EBrazda /SKwong

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Meeting Agenda

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Meeting: ISA77 Fossil Fuel Power Plant Standards Committee Meeting
Chairman: Sinming Kwong
Recorder: Sinming Kwong
Date/Time: May 17, 2023; 11:30 am - 12:30 pm EST
Location: Microsoft Teams Meeting
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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	Current Technical Report	Dan Lee	Report not required.
ISA77.10 Turbine Controls				
ISA-77.13.01 Turbine Steam Bypass Systems	2008	In Revision	Alan Robertson (Retired)	Seeking new lead & members.
ISA-77.14.01 Steam Turbine Controls	2019/ Published 2022	Current Standard	Alan Robertson (Retired)	Report not required.
ISA77.20 Plant Wide Systems				
ISA-77.20.01 Fossil Power Plant Simulators	2012	In Reaffirmation Cycle	Bill Talbot/Alex Lekich	Seeking lead & members.



Attachment A – Meeting Agenda

Item #	Start Time	Duration	Description	Person Responsible
			c) NFPA 85, 2023 Edition d) ISA Standards Publication	c) ISA77 Chair d) ISA77 Chair
9	12:00	0:05	Old Business a) ISA77 Vice Chair b) Solicit new ISA77 members c) 2023 Membership Reaffirmation Completed	ISA77 Chair
10	12:05	0:05	New Business 1. ISA77 Face-to-Face Meeting? Coincide with ISA Automation & Leadership Conference on Oct 4-6 Colorado Springs 2. Open	ISA77 Chair
11	12:10	0:00	NEXT MEETING (Wed) 11/15 MS Teams Meeting @ 11:30 am EST	ISA77 Chair
12	12:15	0:00	ADJOURNMENT	ISA77 Chair

SK (05/16)