



Industrial Safety Equipment Association

MINUTES

Instruments Group Meeting
Thursday, May 25, 1995
Kansas City Marriott at Allis Plaza
Kansas City, MO

MEMBERS PRESENT

Air Liquide America	Margarita Porto
Biosystems Ind.	Robert Henderson
Envirometrics Products Co.	Skip Elliott
Gas Tech Inc.	Bruce Holcom
3M Company	Bob Weber
Mine Safety Appliances	Ken Acer
Neotronics	Ralph Burns

MEMBERS ABSENT

Scott Aviation	A. Perry
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OTHERS PRESENT

Air Liquide America	Emerson Todd
Bacharach Inc.	Mark Coppler
RKI Instruments Inc.	Bob Pellissier
Webster, Chamberlain & Bean	Art Herold
ISEA	Bill Erny

PRESIDING

Robert Henderson, *chairman*

1. CALL TO ORDER

The meeting was called to order at 9:00 a.m.

As the first order of business, Chairman Henderson introduced three new Instruments Group members: Skip Elliott of Envirometrics, Margarita Porto of Air Liquide America, and Bob Weber of 3M. Also, two potential members were introduced: Mark Coppler of Bacharach Inc. and Bob Pellissier of RKI Instruments Inc.

2. CONSIDERATION OF MINUTES OF NOVEMBER 12, 1995

The meeting minutes of November 17, 1995 were approved as presented.

ANSI/ISEA 102-1990

Bill Erny reported that ANSI/ISEA 102-1990, "American National Standard for Gas Detector Tube Units," is due for review in accordance with the 5-year review policy of the American National Standards Institute. Ken Acer was assigned to lead the revision effort. Bill Erny was assigned to request an extension of ANSI.

4. DRAFT ISA/NEC UPDATE

Mark Coppler, Chairman of ISA 1213, reported on the ISA Combustible Gas Committee. The Combustible Gas Standard, ANSI/ISA 1213 was reviewed in February and has been submitted to the program committee for review and approval as an American National Standard.

The ISA "Recommended Practice" is up for review in 2 years. The committee has begun their initial review. An important new issue is the impact of new technologies.

It was reported that the ISA standards for toxic gases (CO, NH₃, C₁, O_x), are out for ballot approval. Comments will be considered at ISA's next meeting in June in Tucson, AZ. Bruce Holcom volunteered to act as ISA liaison to the Instruments Group. Bruce was requested to submit copies of the toxic gas standards to ISEA for circulation to members of the Instruments Group. It is expected they will be approved as final by the end of 1995.

Chlorine was identified as a potential controversy due to a proposed protocol to produce concentrations of Chlorine to tight tolerances.

5. NFPA 306

Ken Acer reported that NFPA 306 is due for review by the end of Fall. Two important issues are the oxygen deficient requirement of 22% which conflicts with the 23.5% OSHA Confined Space requirement and calibration before and after use issue. It was suggested that the Group make a clear recommendation to the NFPA 306 Committee to establish consistent criteria. Bill Erny was requested to send out copies of 306 to Group members for review and comment.

6. OTHER STANDARDS ACTIVITIES

Mark Coppler reported that a draft ISA standard has been developed on generic performance criteria for toxic gas monitors. ISA 9207 would include requirements for monitors covered by ISA standards 9201 through 9206. The project was motivated by CEN TC116/137 which has developed a similar document.

7. CEN STANDARDS

It was discussed whether a published comparison exists between CEN and U.S. standards and whether the Instruments Group should take on such a project if none exists. Mark Coppler noted that a project has been undertaken by the ISA. Bruce Holcom volunteered to report back to the Group on future ISA project activity. No Group action was determined at this time.

8. PASSIVE MONITORS SUBCOMMITTEE REPORT

Bill Erny and Skip Elliott reported on recent activity of the passive monitors subcommittees (PMS). The PMS had their second meeting on Sunday afternoon. The objective of the PMS is to develop standard validation procedures for passive diffusive sampling devices and publish as an American National Standard. Skip Elliott has been elected as chairman and Bob Weber as Vice Chairman. The next meeting of the passive monitors subcommittee is tentatively scheduled in conjunction with the National Safety Show in Dallas which runs from November 6-8. A specific meeting date will be announced later.

9. CONFINED SPACE STANDARD, ANSI Z117

Bill Erny and Bob Henderson reported the results of balloting Z117. It was explained that ISEA's comment regarding the definition of "entry" into a confined space was rejected. As a result, ISEA voted against the standard as written. ISEA requested that an entry be defined when "any part of the body" of an entrant breaks the plane of a confined space in accordance with OSHA regulations. The approved language defines an entry when any part of an entrant's face breaks the plane. Attached to these minutes is the Z117 Committee rationale for rejecting the ISEA suggestion which in part uses the 1994 NIOSH publication "Worker Deaths in Confined Spaces" as support documentation.

The Group determined that no further official appeal action would be initiated at this time. However, Bill Erny was requested to contact ANSI to ensure our comments were received and recorded.

10. OSHA PROPOSED RESPIRATORY RULE, 29 CFR 1910.134

Bob Henderson reported that comments were submitted on behalf of both the ISEA Respiratory Protection and Instruments Groups. Specifically the Instruments Group raised concern over the fact that OSHA has removed a requirement for continuous CO monitoring on oil lubricated compressors. ISEA comments recommended the ANSI Z88.2-1990 requirements (see attached) that requires periodic sampling as directed by the program administrator. It was noted that ISEA has historically supported OSHA's adoption of Z88.2 in their regulations.

Bill Erny reported that the OSHA public hearings are scheduled from June 6-20. ISEA is scheduled to present testimony on June 14.

11. AIHA GAS AND VAPOR DETECTION COMMITTEE

It was reported that NIOSH is currently drafting standards on CO, H₂S and Tritector monitor performance. Mary Woebkinberg of NIOSH-Cincinnati is the project group leader. Bruce Holcom was assigned to contact NIOSH and collect specific information for Group distribution.

A passive monitors round table is scheduled for Friday and is being chaired by Martin Harper of SKC Instruments. Ken Acer is attending and was requested to report the results of their discussion to the Group before the next meeting.

A round table on "Emergent Technologies," chaired by Steve Day is scheduled for the Fall.

Bob Henderson was requested to pass on the minutes as soon as they are available.

12. AIHA CONFINED SPACE COMMITTEE

Bob Henderson reported on the meeting that transpired on Monday, May 21. The main topic of discussion focused on performance characteristic and calibration requirements of sensors used in confined space applications. Bob was requested to pass along the official meeting minutes as they become available.

It was suggested that the Instruments Group should put together a position paper on calibration frequency of instruments used in confined space applications. It was noted that the need for such information is paramount to end users. A cutoff date of June 15 was established for submittal of Group comments to ISEA. All comments will be circulated to Group members and a position paper will be developed.

13. NEW BUSINESS

An overview of outside representation identified the following:

Bruce Holcom	-	ISA, NIOSH
Ken Acer	-	NFPA 306
Bob Henderson	-	AIHA Gas & Vapor Committee
Bob Weber	-	AIHA Respiratory Committee

14. NEXT MEETING

The next meeting of the Instruments Group is scheduled in conjunction with the ISEA Mid-Year Meeting which is held from November 13-15 at the Ritz-Carlton Pentagon City, Arlington, Virginia. The specific meeting time, room location and agenda will be presented at a later date.

15. ADJOURNMENT

There being no more business to discuss, the meeting was adjourned at 10:25 a.m.

Respectfully submitted,

William J. Erny
Technical Director

Attachment

Table 4 – Periodic air sampling guidance for compression

Type/sample	Oil lubricated	Non-oil lubricated	Combustion engine powered
Water vapor	X	X	X
CO	X		X
Condensed hydrocarbon	X		X
CO ₂			X
Odor	X	X	X
NOTES 1 When using air compressors, intake location shall be carefully selected and monitored closely to ensure air supplied to the compressor is of adequate quality. 2 No frequency for periodic checks of air quality is specified, due to wide variation in equipment type, use and working environments, and operating experience. 3 Continuous monitoring of temperature and carbon monoxide are not required. 4 For non-oil lubricated compressors that operate at less than 35 psi, no sampling for water is required. 5 These requirements apply to systems designed for breathing air, other air-supply systems need to be evaluated on a case-by-case basis for the type and frequency of testing.			

10.5.4.2 A compressor shall be constructed so as to avoid entry of contaminated air. For all air compressors, including portable types, the air intake location shall be carefully selected, and monitored closely to ensure continued quality of air supply to the compressor. The system shall be equipped as necessary with a suitable in-line air-purifying sorbent bed and filter to further assure breathing air quality. Maintenance and replacement/refurbishment of compressor and associated air-purifying/filter media shall be performed periodically, by trained personnel following manufacturer's recommendations and instructions.

10.5.4.3 As part of acceptance testing, and prior to initial use, representative sampling of the compressor air output shall be performed to ensure that it complies with the requirements in 10.5.1 and 10.5.4. To ensure a continued high-quality air supply, and to account for any distribution system contaminant input,

a representative sample should be taken at distribution supply points. Samples should be collected on a periodic basis, as directed by the program administrator. Specific test recommendations are given in table 4.

10.5.4.4 The dew point of breathing air used with supplied air respirators should be lower than the lowest ambient temperature to which any regulator or control valve on the respirator or air-supplied system will be exposed.

10.5.4.5 Breathing air couplings shall be incompatible with outlets for nonrespirable plant air or other gas systems to prevent inadvertent servicing of supplied-air respirators with nonrespirable gases. Breathing air outlets shall be labeled.

10.5.4.6 Breathing gas containers shall be marked in accordance with ANSI/CGA C-4-1990. Further details on sources of compressed air and its safe use will be found in CGA G-7-1988.