



**2022 CEMA FALL ENGINEERING CONFERENCE
UNIT HANDLING SAFETY SUBCOMMITTEE MEETING**

Cisco Webex Meetings
Tuesday, November 8, 2022

MINUTES

1. Call to order
Dan Modzeleski, Dematic; Acting Chair, called the meeting to order at 1:03 pm.
2. Attendance and Introductions – Roll call attached.
3. Approval of Minutes of June 13, 2022 – Minutes were approved.
4. Old business
 - a) **CEMA SBP-001 Design and Safe Application of Conveyor Crossovers for Unit Handling Conveyors** – Updates.
Subcommittee: Troy Uahinui & Greg Pollitt, Honeywell Intelligrated; Boyce Bonham, Hytrol Conveyor Co. Inc.; Dan Modzeleski, Dematic Corp.; Ray Weidenfeller, Sunhill America, LLC.

Draft 10 was created and sent out again to the attendees for review and approval. However, some edits and comments received are in the process of being captured.

It was noted that the current CEMA SBP-001 document does not address characteristics of the intermediate step plate required for crossing conveyors that are greater than 36 inches.

The paragraph above Section 5.1 and the Crossover Selection Chart need to be reviewed because. The chart suggests that a step across a distance less than or equal to 36 inches is tolerable and it was mentioned that this might be a little further than the values promoted by other standards (i.e., EN 619 Standard shows 31 ½ inches but it's not a requirement).

EN 619 Standard does not mandate the implementation of the handrail spanning the width of the conveyor, therefore CEMA is questioning the need to align with them. CEMA SBP-001 indicates that this handrail is not optional. The idea is to offer more clarity regarding this. Troy agreed to obtain input from ergonomic experts to discuss the appropriate step across distance. Furthermore, it was pointed out that some figures were still needed to help communicate the intent of the message in this paragraph.



The distance mentioned in section 7 must be updated with the ergonomic expert's recommendation.

Additionally, the second bullet point in Section 8.1 should be restored to its original verbiage, however, it was suggested that we consider adding some diagrams/figures to better communicate the objectives. The subcommittee agreed to add elements or diagrams to the document to ease understanding and move forward with the document.

b) **CEMA SBP-003 (2022) "Design and Application of Spill Guarding for Unit Handling Conveyors" Approval** – Updates.

Subcommittee: Troy Uahinui & Greg Pollitt, Honeywell Intelligrated; Glen Langstaff, Ralph-Pugh Co., Inc.; Boyce Bonham, Hytrol Conveyor Co. Inc.

The document was sent to the Official Representatives (ORs) for approval and was approved with comments. The comments received will be part of the new revision of the document for the 2023 version.

c) **Safety Best Practices, Conveyor Drives Research** – Updates.

Subcommittee: Todd Swinderman, RToddS Engineering LLC; Bryan Gauger, Cisco-Eagle; Matt Anderson, Bunting; Pat Knapke, Pulseroller.

The idea is to see if there was a best practice for using a belt conveyor's drive motor to aid in threading a new belt onto a conveyor instead of just pulling by hand or using a powered industrial vehicle.

There was a concern expressed about the practice of using the conveyor drive to string a new belt onto a conveyor because it goes against the lock-out/tag-out requirements. There were concerns about CEMA endorsing such a practice.

The Unit Handling Safety Subcommittee agreed to table this topic until further notice. Additionally, It was suggested that this should be brought to the attention of the "Appendix D – Installation Standard" subcommittee in the CEMA's Bulk Belt Systems and Emerging Technologies Committee to be included because it is common practice.

d) **CEMA SBP-002 "E-Stop Application Guide for Unit and Bulk Material Handling Conveyor Systems"** – Updates.

This committee requested that the Conveyor Controls Committee develop a list of factors to be considered in creating a risk assessment to help make this determination.



Mitch Burkert, Dematic Corp.; volunteered to represent this committee in the conveyor controls subcommittee created to review the CEMA SBP-002. No further actions are required from this subcommittee. (This topic can be removed from Old Business on subsequent meeting agenda)

e) **Review of Best Practices for Implementation of Fire and Explosion Preventive Measures** (From the CEMA's Bulk Handling Safety Subcommittee) – Updates.

Todd Swinderman, Chair of the Bulk Handling Safety Subcommittee, mentioned that on his subcommittee, the document was approved to be sent to the Bulk Handling Safety Subcommittee Meeting Attendees and then to the CEMA Official Representatives (ORs) defining in the opening paragraph that the current document is for Bulk Handling Conveyors. No further actions are required from this subcommittee. (This topic can be removed from Old Business on subsequent meeting agenda)

f) **CEMA White Paper Topics** – Volunteers needed.

- Use of wireless pendant for operating conveyors
- E-Stop span of control
- How to best utilize servo motors with a Safe Torque Off function
- Hard guard enhancements

No volunteers at this time.

g) **ASME B20.1 Changes** – Updates

Minor changes were incorporated in the September 2022 edition. No further actions are required from this subcommittee.

h) **CEMA Safety Videos** – Updates

CEMA is developing a safety video streaming option. Hopefully, this will be ready in 2023.

i) **Unit Handling Book (Chapter 21) vs. CEMA SBP-003 (2022).**

The CEMA Unit Handling Book, Chapter 21, has contradicting information to the SBP document regarding the height requirement for netting in Example 5. 2/3 max load height compared to 40 inches.

Additionally, was noted the difference between the images in both publications. Mark Corsmeier, Honeywell Intelligrated; will reach out to Chris Maines, Honeywell Intelligrated, regarding the history of these images and provide feedback to this subcommittee.



CONVEYOR EQUIPMENT
MANUFACTURERS ASSOCIATION

27400 Riverview Center Blvd., Suite 2
Naples, Florida 34134

Tel: (239) 514-3441

Fax: (239) 514-3470

www.cemanet.org



5. New Business – No new business was discussed at this meeting.
6. Next Meeting – June 12, 2023, LaPlaya Beach & Golf Resort, Naples, FL.
7. Meeting was adjourned at 2:02 pm.

Dan Modzeleski, Acting Chair

2022 CEMA VIRTUAL FALL ENGINEERING CONFERENCE - UNIT HANDLING SAFETY SUBCOMMITTEE - Roll Call

Attendance Count	Event Name	First Name	Last Name	Email	Title	Company	Phone	Country/Region
1	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Zack	Amos	zamos@dodgeindustrial.com	Gearing Application Engineer	Dodge Industrial	1-864-281-2162	United States of America
2	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Juan	Aristizabal	aristizabal.juan@dismet.com	Engineer	DISMET SAS	57-6017494000	Colombia
3	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Casey	Bergman	casey@vortexglobal.com	Product Development Manager	Salina Vortex Corp.	1-7858257177	United States of America
4	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Boyce	Bonham	bbonham@hytrol.com	Chief Engineer	Hytrol	1-8702194526	United States of America
5	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Mitchell	Burkert	mitchell.burkert@dematic.com	Product Engineer	Dematic	1-2316381269	United States of America
6	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Alberto	Chamorro	achamorro@douglasmanufacturing.com	Engineer	Douglas Manufacturing	1-2057530727	United States of America
7	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Mark	Corsmeier	mark.corsmeier@honeywell.com	Lead Electrical Engineer	Honeywell Intelligrated	1-5136757657	United States of America
8	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Douglas	Crowder	dcrowder@frantz-mfg.com	Director of Engineering	FRANTZ MANUFACTURING CO	1-8156222146	United States of America
9	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Patrick	Cucco	pcucco@ashlandconveyor.com	Product Design Manager	Ashland Conveyor Products	1-4192811235	United States of America
10	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Nate	Evans	nevans@seweurodrive.com	Application Engineer	SEW Eurodrive	1-12143304824	United States of America
11	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Naylu	Garces	navlu@cemanet.org	CEMA's Engineering Manager	CEMA	1-2392608009	United States of America
13	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Bryan	Gauger	bryan.gauger@cisco-eagle.com	VP of System Integration	Cisco-Eagle	1-14697139250	United States of America
14	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Nick	Heward	nicholas.heward@mhsglobal.com	Project Engineer	Material Handling Systems	1-801-834-3535	United States of America
15	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Bjorn	KulsengHansen	bhansen@iki.com	Sales Manager	Industrial Kinetics	1-6307864311	United States of America
16	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Howard	Mclvaine	howard@unex.com	Vice President of Operations	Unex Manufacturing	1-9082087524	United States of America
17	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Amanda	Miller	amanda.miller@cisco-eagle.com	Project Manager	Cisco-Eagle, Inc	1-9182805005	United States of America
18	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Dan	Modzeleski	daniel.modzeleski@dematic.com	Product Safety Engineer	Dematic Corp	1-6169135772	United States of America
19	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Andres	Pinto Goya	f.vergara@tecrapol.com	Engineer	TEC RAPOL	56-990893706	Chile
20	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Hans	Rodgers	hrodgers@seweurodrive.com	Industry Account Specialist	SEW EURODRIVE	1-314-441-9249	United States of America
21	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Paul	Schmidgall	p.schmidgall@superior-ind.com	Chief Engineer	Superior Industries	1-3205892406	United States of America
22	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	R.	Todd Swinderman	rtodds.eng@gmail.com	Owner	RTodds Engineering, LLC	1-386-589-4384	United States of America
23	2022 CEMA Fall Engineering Conference - Unit Handling Safety Subcommittee	Mark	Webster	mark@webster-eng.com	Owner	Webster Engineering LLC	1-2627072159	United States of America