



2019 CEMA ENGINEERING CONFERENCE BULK HANDLING SAFETY SUBCOMMITTEE MEETING

La Playa Hotel, Naples, FL

Monday, June 24, 2019

MINUTES

1. Called to Order at 10:10 am
2. Roll Call and Introductions – 62 attendees (roll call attached)
3. Reviewed and Approved June 25, 2018 Minutes
4. Old Business
 - a) **Best Practice for Inspection, Application, Servicing and Maintenance of Backstops**
 - Raul Morales presented review of previously prepared documents with additional clarifications by Rich Collins, Ringspann Corporation; and information provided by Hans Rodgers, SEW-Eurodrive, Inc. (Attached)
 - Next steps for additions and improvements to documents:
 - Include information on best practices for application, use and maintenance of load-sharing backstops
 - Considerations and precautions for multiple drives and/or multiple backstops on a single conveyor
 - Precautions on best practices for bucket elevators – flooded elevator boot; dangers of jogging the equipment to attempt digging buckets out
 - Add information on backstops that are mounted on rear end of motor (used by some gearmotor manufacturers)
 - Information on pawl type backstops – description and best practices
 - White paper based on best practices document by Rich Collins. Raul Morales to assist.
 - b) **Best Practice for Implementation of Fire and Explosion Preventive Measures**

Subcommittee: Preston Hofer, Universal Industries, Inc.; Andrew Morton & Jacob Rider, KWS; Edward Sunseri, Applied Conveyor Technology, Inc.; Rick Tschantz, Imperial Technologies, Inc.; Brian Knapp, 4B Components, Ltd.

 - Per Todd Swinderman, RToddS Engineering, LLC.; some additions may be required for fire prevention in flat belt conveyors, particularly in totally enclosed configurations.
 - Add more information on lagging material.
 - Summarize a “Normal Duty” section that is shorter than the comprehensive document which covers self-igniting material such as lignite. Purpose being to simplify as a quicker reference document covering the more commonly handled materials.

- Commentary is that not much has changed in the fire safety overreaching requirements.
 - Add more information on suppression and dust containment.
 - Johnny Wheat, 4B Components Ltd.; indicated that in the grain handling industry there are certain requirements for dust containment and fire suppression that might apply to other areas.
 - OSHA anti-static requirements to be added to best practice document.
 - Geoff Normanton, Fenner Dunlop; mentioned that in Europe there are requirements for testing of anti-static belts.
 - Volunteers were requested to become part of the Fire Safety committee: Laura Hoggan, REMA Tip Top; signed up to join the current subcommittee.
 - Reviewed of fire safety labels – PowerPoint provided by Johnny Wheat
- c) **Proposal for Risk Assessment for Trip/Safety Hazards regarding Self-Unloading Portable Rail Car Systems.**
- Work on this topic is still ongoing and a draft will be supplied from subcommittee when the first draft is ready to be presented.
- d) **CEMA Safety Label – Hold Down Wheel Danger** – Review and share pictograms for Best Practices for Guarding and Danger at Deflection Wheels on Stationary Sidewall Belts.
- Frank Loeffler, Loeffler Engineering Group; mentioned a lawsuit case where a person was killed in an under-rail car discharge unit where a warning label was visible and positioned properly so the plant operator was not held liable. Labels positioned properly are a retardant if visible and easy to read to display the Danger or Warning.
 - Rick Tschantz, Imperial Technologies; shared the first draft for Danger label specific for avoidance of crossing over a low-profile conveyor belt with possible deflection wheel
 - Todd Swinderman suggested developing additional label for any type of conveyor with hold-down wheels, which are a potential pinching or crushing point. Kimberly MacLaren, CEMA; mentioned that there is already a CEMA label indicating that personnel should not get on top of a conveyor. Rick Tschantz countered that it is necessary to add or change it to show the hold-down wheels as a pinching/crushing point.
 - Previous subcommittee members of were asked to review pictogram for comments and approval for resubmittal for committee approval. A question was asked about non-English speakers not being able to read the text in the labels. Discussions about the fact that the pictogram shall be enough to indicate that there is a risk and that it becomes a responsibility of the plant operator to ensure that all personnel understands the proper steps for risk avoidance and understanding of the labels.
 - Kimberly MacLaren indicated that for some time CEMA had Spanish language labels but due to the regional differences in Spanish. The CEMA board decided to produce labels only in English.

5. New Business

- a) Review current **Safety Best Practices Recommendation CEMA SBP-001 Design and Safe Application of Conveyor Crossovers for Unit Handling Conveyors** for development of Bulk Handling Crossovers Best Practices.

- Work on this topic is still ongoing and a draft will be supplied from subcommittee when the first draft is ready to be presented
 - b) Update on dangers of Silica dust and preventative measures.
 - Todd Swinderman will provide more information next year.
 - c) Requested future discussion for best practice for way to “unload backstop while under load”.
6. Election of a Vice Chair – Todd Swinderman, RToddS Engineering, LLC was elected.
 7. Next Meeting – June 15, 2020 – La Playa Hotel, Naples, FL
 8. Meeting was adjourned at 11:57 am

Respectfully submitted,
Rick Tschantz, Vice Chair

52 PPD

EC 2019 - Bulk Conveyor Safety Meeting Roll Call - June 24

COMPANY	Name	New Member	First Mtg	e-mail:	Initials:
4B Components Ltd.	Johnny Wheat	<input type="checkbox"/>	<input type="checkbox"/>	jwheat@go4b.com	<u>SW</u>
4B Components Ltd.	Roger Bruere	<input type="checkbox"/>	<input type="checkbox"/>	rbruere@go4b.com	_____
ABB Motors and Mechanical Inc.	Alexander Vitou	<input type="checkbox"/>	<input type="checkbox"/>	alex.vitou@us.abb.com	_____
ABB Motors and Mechanical Inc.	David Keech	<input type="checkbox"/>	<input type="checkbox"/>	david.keech@us.abb.com	_____
ABB Motors and Mechanical Inc.	Thomas Looper	<input type="checkbox"/>	<input type="checkbox"/>	thomas.looper@us.abb.com	_____
Argonics, Inc.	Jeremy Nylund	<input type="checkbox"/>	<input type="checkbox"/>	jnylund@argonics.com	_____
ASGCO® "Complete Conveyor Solutions"	Lee Williams	<input type="checkbox"/>	<input type="checkbox"/>	lwilliams@asgco.com	<u>LW</u>
ASGCO® "Complete Conveyor Solutions"	Bruce Antonioli	<input type="checkbox"/>	<input type="checkbox"/>	bantonioli@asgco.com	<u>BA</u>
Bechtel Corporation	Avinash Bhalerao	<input type="checkbox"/>	<input type="checkbox"/>	abhalera@bechtel.com	_____
Bechtel Mining & Metals	Luis Estay	<input type="checkbox"/>	<input type="checkbox"/>	lrestays@bechtel.com	<u>LE</u>
Bonfiglioli	Daniel Coroian	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	daniel.coroian@bonfiglioli.com	_____
CEMA	Andrew Solis	<input type="checkbox"/>	<input type="checkbox"/>	asolis@cohenlaw.com	_____
CEMA	Philip Hannigan	<input type="checkbox"/>	<input type="checkbox"/>	phil@cemanet.org	<u>PH</u>
CEMA	Kimberly MacLaren	<input type="checkbox"/>	<input type="checkbox"/>	kim@cemanet.org	<u>KIM</u>
ContiTech North America, Inc.	Dr. Robin Steven	<input type="checkbox"/>	<input type="checkbox"/>	robin.steven@continental.com	<u>RBS</u>
Conveyor Dynamics, Inc.	Andrew Jennings	<input type="checkbox"/>	<input type="checkbox"/>	jennings@conveyor-dynamics.com	<u>AHJ</u>
Dos Santos International	Joseph Dos Santos	<input type="checkbox"/>	<input type="checkbox"/>	jds@dossantosintl.com	<u>JDS</u>
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Douglas Manufacturing Co., Inc.	Benjamin Brewer	<input type="checkbox"/>	<input type="checkbox"/>	bbrewer@douglasmanufacturing.com	<u>BBB</u>
Fenner Dunlop Conveyor Belting	Akiko Wakatsuki	<input type="checkbox"/>	<input type="checkbox"/>	akiko.wakatsuki@fennerdunlop.com	<u>AW</u>
Fenner Dunlop Conveyor Belting	Geoff Normanton	<input type="checkbox"/>	<input type="checkbox"/>	geoff.normanton@fennerdunlop.com	_____
Hatch	Colin Barbeau	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	colin.barbeau@hatch.com	_____
Herbst & Associates, LLC	Walter Herbst	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	wjherbst@herbstandassociates.com	_____
Imperial Technologies, Inc.	Rick Tschantz	<input type="checkbox"/>	<input type="checkbox"/>	ricktschantz@imperial-technologies.com	_____
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KMEC Engineering & Conveying Systems	Derek Tatum	<input type="checkbox"/>	<input type="checkbox"/>	derek.tatum@kmec-eng.com	_____
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Matthiesen	Pete Ruiz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	p Ruiz@matthiesenequipment.com	<u>PR</u>
Matthiesen	Stephen Niestroy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	sniestroy@matthiesenequipment.com	<u>SN</u>
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ANY	Name	New Member	First Mtg	e-mail:	Initials:
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Overland Conveyor Co. Inc.	Paul Ormsbee	<input type="checkbox"/>	<input type="checkbox"/>	ormsbee@overlandconveyor.com	_____
PEER Bearing Company	Jerry Weir	<input type="checkbox"/>	<input type="checkbox"/>	jweir@peerbearing.com	_____
Precision Pulley and Idler Co. (PPI)	Jeffrey Ellis	<input type="checkbox"/>	<input type="checkbox"/>	jellis@ppi-global.com	_____
Precision Pulley and Idler Co. (PPI)	Jim Masek	<input type="checkbox"/>	<input type="checkbox"/>	jmasek@ppi-global.com	JM
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Richwood	Judd Roseberry	<input type="checkbox"/>	<input type="checkbox"/>	jroseberry@richwood.com	_____
Richwood	Geoff Stoll	<input type="checkbox"/>	<input type="checkbox"/>	gstoll@richwood.com	GS
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RToddS Engineering, LLC	Todd Swinderman	<input type="checkbox"/>	<input type="checkbox"/>	rtodds.eng@gmail.com	RS
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TAKRAF USA, Inc.	Jeremy Watts	<input type="checkbox"/>	<input type="checkbox"/>	jeremy.watts@tenova.com	JW
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Thomas Conveyor Company	Buzz Grant	<input type="checkbox"/>	<input type="checkbox"/>	bgrant@thomasconveyor.com	BG
Timken Drives, LLC	Thomas Young	<input type="checkbox"/>	<input type="checkbox"/>	thomas.young@timken.com	_____
U.S. Tsubaki Power Transmission, LLC	Tom Walker	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	tomwalker@ustsubaki.com	TW
WAM, Inc.	Josh Hahne	<input type="checkbox"/>	<input type="checkbox"/>	joshh@waminc.com	JH
Woodex Bearing Company, Inc./MECO Sea	Paul Wehrle	<input type="checkbox"/>	<input type="checkbox"/>	bird@woodex-meco.com	_____

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