



**2023 CEMA FALL ENGINEERING CONFERENCE
JOINT SCREW CONVEYOR AND BUCKET ELEVATOR COMMITTEES MEETING**
Microsoft Teams Webinar
Monday, November 6, 2023 – 10:00 am

AGENDA

1. Call to order.
2. Attendance and Introductions.
3. Approval of Minutes of June 13, 2023 (Attached).
4. Old business
 - a) **ANSI/CEMA Standard No. 300 “Screw Conveyor Dimensional Standards”** – Updates.
Subcommittee: Trevin Berger, Martin Sprocket & Gear (Chair); Steve Boudreau, Screw Conveyor Corp.; Jacob Rider, KWS Manufacturing Company; Nate Evans, SEW-EURODRIVE, Inc.; and Eric Haugen, NORD Drivesystems; Zack Amos, Dodge Industrial, Inc.; David Stroncsek, Thomas Conveyor Company.

ANSI/CEMA Standard No. 300 tables need to be updated to reflect 3-15/16”; 4-7/16”; 4-15/16” diameter shaft components, and 30” diameter and 36” diameter screw components. The subcommittee created a survey requesting data about the pattern for four (4) bolt patterns finalized for adapters. It is likely to be driven by bearing size and spacing. The subcommittee would have meetings every two (2) weeks to review a couple of tables each time based on the survey results. The first meeting would be in July.

- b) **En-Masse/Drag Conveyors Guide** – Updates. Volunteers needed.
Section Subcommittee: Craig Abraham and Garry Abraham, Screw Conveyor Corp.; Bill Mecke, KWS Manufacturing Company Ltd.; and Noel Bell & Jeff Weaver, Martin Sprocket and Gear, Inc.
Engineering Subcommittee: David Stroncsek, Thomas Conveyor Company; Roger Bruere, 4B Components, Ltd.; Travis Faulhaber, Imperial Conveying Systems; Steve Boudreau, Screw Conveyor Corp.; and Trevin Berger, Martin Sprocket & Gear.

This guide will include areas of interest for best practices, installation, maintenance, how to install, staging, design considerations, tension, and flights. The section subcommittee was working on the scope of the document. They will provide their suggestions for it.



4B Components is finishing the draft for this document, and will be sent to Martin Sprocket & Gear for their comment next.

c) **Status of ‘CEMA Bucket Elevator Book - Best Practices in Design’ Chapter 4 Final Review and ‘CEMA Bucket Elevator Book’ 2nd Edition – Updates.**

Subcommittee: Jacob Rider, KWS Manufacturing Company, Ltd.; Warren Knapp & Steve Boudreau, Screw Conveyor Corporation; David Stroncsek, Martin Sprocket, and Gear, Inc.

Horsepower and head shaft size were the main issues. The nomenclature was also updated to agree with the CEMA Belt Book. The subcommittee will provide examples and clarifications of the variables in the formulas.

d) **CEMA Guide No. 354 “Bucket Elevator Installation, Operation, and Maintenance Guide” (Former “Bucket Elevator Installation, Operation, and Maintenance Manual (IOM)” – Updates**

Subcommittee: Roger Bruere, 4B Components (Chair); Steve Boudreau, Screw Conveyor Corp.; Trevin Berger, Martin Sprocket & Gear; Bill Mecke & Jacob Rider, KWS Manufacturing Company.

This document is similar to CEMA No. 352, “Screw Conveyor Safety, Operation, and Maintenance Manual”. The subcommittee is working on the “Shutdown and Storage” Section and the “Remedy” portion in the “Troubleshooting” Section.

e) **Bucket Elevator Explosive or Flammable Material and Additional Topics/Screw Conveyor Explosive or Flammable Material and Additional Topics – Updates.**

Subcommittee: Noel Bell & Jeff Weaver, Martin Sprocket and Gear, Inc.; Johnny Wheat, 4B Components Ltd.

The Bulk Handling Safety Committee has developed a document on belt fire safety. The engineers considered that it may need to keep a section for a few applications for the bucket elevator, i.e., plastic, etc.

This section agreed to make this a standalone document separate from CEMA Guide No. 354 but referenced within the guide. Also, to make additional standalone documents for Screw Conveyors and Bucket Elevators Explosive or Flammable Material Safety, these documents will consider current NFPA and other standards that are already in place.



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5. New Business

6. Next Meeting – June 11, 2024, Naples Grande Beach Resort, Naples, FL.

7. Adjourn

Jacob Rider, Chair
Russell Collins, Vice-Chair