



**2023 CEMA ANNUAL MEETING
JOINT SCREW CONVEYOR AND BUCKET ELEVATOR SECTION MEETING**

The Scottsdale Resort at McCormick Ranch, Scottsdale, AZ
Monday, March 13, 2023 – 7:30 am

AGENDA

1. Call to order.
2. Attendance and Introductions.
3. Approval of Minutes of September 21, 2022 (Attached).
4. Screw Conveyor/Bucket Elevator Sales/Inventory.
5. Old business
 - a) **Status of ‘CEMA Bucket Elevator Book Best Practices in Design’ Chapter 4 Final Review – Updates.**
Subcommittee: Bill Mecke & Jacob Rider, KWS Manufacturing Company, Ltd.; Warren Knapp & Steve Boudreau, Screw Conveyor Corporation

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

A survey will be prepared for the manufacturers to collect more data needed for the chapter. The results will be presented at the 2023 CEMA Engineering Conference.

- b) **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 “Remedy” portion in the troubleshooting table.



c) **Drive Arrangements** – Updates.

Subcommittee: Steve Boudreau, Screw Conveyor Corp. (chair); Trevin Berger, Martin Sprocket & Gear; Charlie Ritinski, Sumitomo Machinery Corporation of America; Hani Almoghrabi, Nord Drivesystems, Zac Amos, Dodge Industrial Inc.; Nate Evans, SEW-EURODRIVE.

The idea is to develop a new section in the CEMA's Bucket Elevator Book, 2nd Edition: Bucket Elevator Drive Arrangements. The subcommittee is looking for other input or 3D models of how manufacturers mount their drive equipment.

d) **Bucket Elevator Explosive or Flammable Material and Additional Topics** – Updates. Volunteers needed.

The Bulk Handling Safety Committee has developed a document on belt fire safety. The engineers considered that perhaps it needs 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 the IOM but referenced in the IOM. Also, to make additional standalone documents for Screw Conveyors and Bucket Elevators Explosive or Flammable Material Safety. Volunteers are needed to develop this project.

e) **ANSI/CEMA Standards No. 300 "Screw Conveyor Dimensional Standards" Review** – Updates.

Subcommittee: Steve Boudreau, Screw Conveyor Corp.; Trevin Berger, Martin Sprocket & Gear; Jacob Rider, KWS Manufacturing Company; Nate Evans, SEW-EURODRIVE, Inc.; and Eric Haugen, NORD Drivesystems.

Currently, large shafts have been published up to 3-15/16". ANSI/CEMA Standard No. 300 tables need to be updated to reflect 3-15/16" diameter, 4-7/16" diameter, 4-15/16" diameter shaft components, and 30" diameter and 36" diameter screw components.

The subcommittee is working on a survey to request data from the manufacturers. The pattern for four (4) bolt patterns finalized for adapters is needed. Likely to be driven by bearing size and spacing.

f) **En-Masse/Drag Conveyors Best Practices Guide** (Former Drag Conveyor "Best Practices" Book/Manual Topic) – Updates. Volunteers needed.

This guide will include areas of interest for the best practice, installation, maintenance, how to install, staging, design considerations, tension, and flights. A subcommittee needs to be created to work on this topic.



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g) **'CEMA Bucket Elevator Book Best Practices in Design' 2nd Edition** – Updates

Naylu Garces, CEMA; presented some changes needed to other chapters in the book she has been working on what will be best suited for the second edition of this publication. The section agreed to let the engineering group decide who would be in charge of going over Naylu's work, and any changes made.

6. Membership Committee Report
7. New Business
8. Next Meeting – September 20, 2023, at Hilton Chicago O'Hare Airport, Chicago, IL.
9. Adjourn

Johnny Wheat, Chair
Craig Abraham, Vice-Chair

