

# Hazardous Monitoring

## OSHA Compliance for Grain Elevators

- 1910.272

Regulation includes facilities that have a permanent storage capacity of 1 million bushels or more.

Belt elevators must now be fitted with devices that can shut down the equipment if they malfunction.

- Bearing Temperature Sensors
  - 1910.272(q)(4)
- Motion detection
  - 1910.272(q)(5)
- Belt Misalignment
  - 1910.272(q)(6)

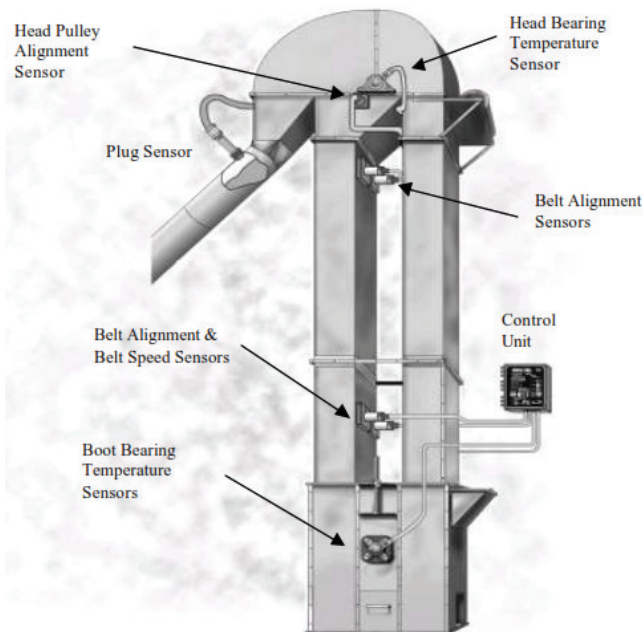


Image above belongs to 4B Components Ltd.

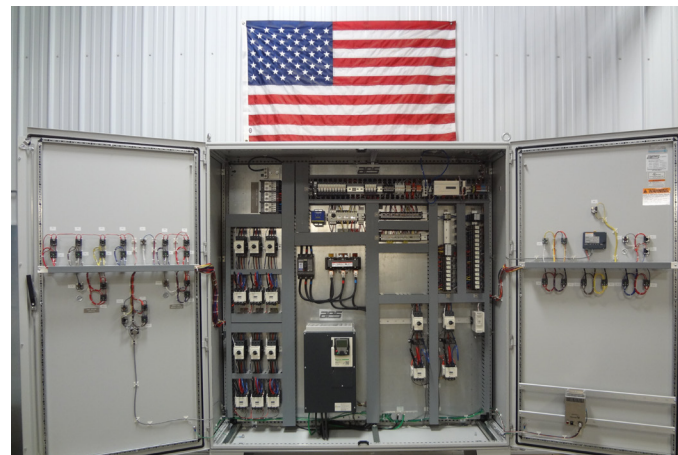
# Mission

*"We strive for complete customer satisfaction as a custom automation team that provides control solutions for the industrial marketplace that shares our passion for safety and craftsmanship."*

## Systems Integrator

APS provides you with a custom solution tailored to your specific needs rather than just fitting you with a generic product.

- UL 508A licensed panel shop.
- Design/ Build custom Motor Control and Automation panels.
- Custom PLC and HMI Programming
- CAD control wiring schematics and site flow diagrams.
- 24/7 Support
- Onsite startup and commissioning.
- Installation and troubleshooting.
- Grain fan aeration automation with temperature monitoring.



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# Grain Handling

Specializing in grain handling automation and motor controls.

APS is a Systems Integrator established in providing a custom solution in automation, motor controls, hazardous monitoring, grain conditioning and grain monitoring equipment.

# Commodity Assignment



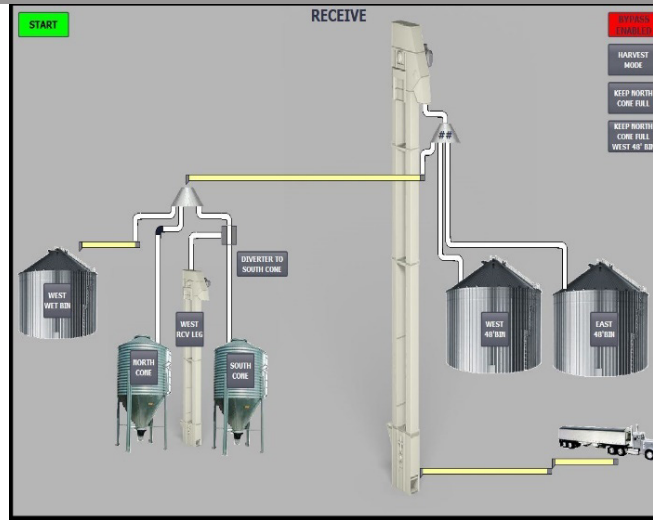
Assign a commodity to all storage bins to prevent cross contamination.

This limits the operator to only choose the storage bins with the same commodity being received to.

User ID and password protected with a recorded log to track operator accountability for re-assigning a storage bin.



# Receiving



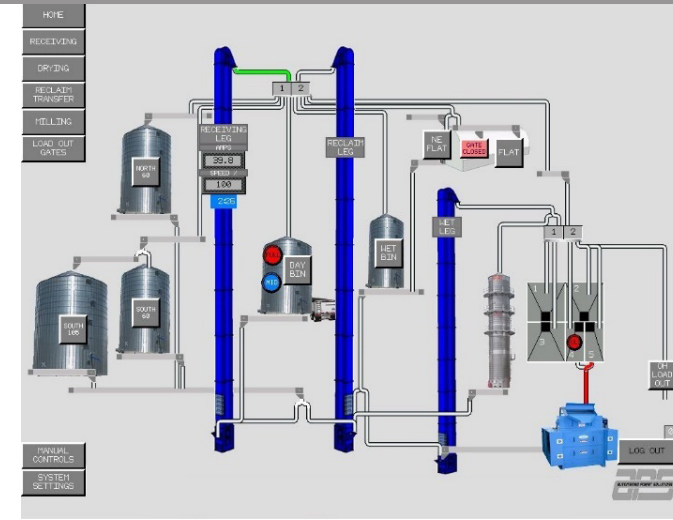
Our source and destination programming verifies the flow path and destination is set correctly before any equipment can start.

We only start and stop the equipment needed to accommodate the destination path and process.

All handling equipment is constantly monitored and displayed to verify the system is running within it's safe operating range.



# Reclaiming



Operator can choose which bin(s) to be reclaimed from and the desired destination.

Blending of the same commodity type from multiple bins is verified through the commodity assignment page.

We control each motorized reclaim gate to ensure the system is running at capacity and within its safe operating range.

