Typical issues
- Sudden profile control performance deteriorate
- No machine operating point records exist when cross-directional weight control problem occurs
- Not knowing what is normal performance for cross-directional weight control
- Machine operating point shifts
- Profile response mapping changed
- Profile response shape and magnitude changed
- Profile response time changed
- Actuator setpoint over-controlling

Preventive maintenance solution
ABB Cross-Directional (CD) Weight Control Check-up is a preventive maintenance schedule that follows a three-step execution (test, record and track) to assess normalcy of the CD weight control. This three-step execution is performed monthly to establish a history or chart of the CD weight control. Having a history allows for quick access to normal process and control settings, and normal profile response behavior for when a profile problem is encountered.

Record
The record step includes analyzing the bump test data and updating the CD weight control health history so the mill and ABB can have the profile performance and machine operating point information when it is needed the most. The recorded information includes the following:
- Product grade
- Actuator alignment statistics
- Process response statistics
- Profile variability band distribution
- Actuator setpoint variability band distribution
- Median operating point for available process variables
- Key control tuning values

Track
The track step includes generating statistics on recorded bump test results, process operating point information and control settings information. Trend plots of the recorded information is updated and the CD weight control history is shared with the mill following every scheduled preventive maintenance execution. If the trended history shows a clear opportunity to improve the CD weight control performance, the appropriate improvement recommendation will be provided with the updated history.

Implement
Once improvement recommendations have been defined, steps to improve performance, while creating a foundation for continuous improvement, can begin. Services to implement improvement recommendations are in addition to the CD Weight Control Check-up service and priced separately.

Approved improvement recommendations can be implemented all at one time, or scheduled to be completed incrementally over time; beginning with improvements that provide the greatest financial return. ABB is available to implement the
improvements, work with site engineers, or work along with site personnel to achieve the desired performance level.

**Why ABB is best**
ABB is the world leader in pulp and paper applications. In depth knowledge and experience in this area allows comprehensive evaluation, diagnosis, remedial recommendations and implementation, and the ability to manage and sustain process performance improvement.

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