Maintenance program for refiner segment holders

Refiners RGP 70 CD, RGP 76 CD, RGP 82 CD

Flawless condition of the refiner segment holders is important for refiner operation and favorable pulp quality. Our maintenance program for refiner segment holders ensures the condition and safety of the refiner’s most heavily loaded components.

Wear defects in refiner segment holders, caused by refiner segment power and temperature changes, may degrade pulp quality and hinder loading of a refiner. Imbalance of the segment holder due to wear and/or cavitations may cause vibrations that shorten the lifetime of the bearings.

Since processes nowadays tend to be more closed, chemical additives may also pass through to the refiner. This change in process conditions could cause corrosion in the segment holders.

Monitoring and regular maintenance of the segment holders is also important from a safety viewpoint.

Maintenance of the segment holders

During the maintenance program the segment holders are cleaned, measured, machined and inspected by non-destructive (NDT) testing methods. If necessary, a sample of the segment holder will be taken for a more detailed analyze. The functional measurements, shape and balance of the segment holder, are checked and restored to a functional level when needed and possible.

The threads are also checked and repaired or replaced according to need. During the maintenance program, the segment holders can be upgraded according to the latest product development. This is agreed upon separately with each customer. The customer will receive a report that includes condition evaluation of the holder and a recommendation for future maintenance actions.

Segment holders should be refurbished minimum every 10-year, or immediately after any major refiner segment damage.

Benefits

- Savings in refining energy and more even pulp quality
- Increased segment life time, and thus less wear on segment holder caused by cleaning
- Increased production Uptime – less unplanned shut downs
- Operational safety – only proper segment holders are in operation
- Increased bearing lifetime

For more information, contact your local Valmet office. www.valmet.com
e-mail: mechanical.fiber@valmet.com
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