



# Design Update Bulletin

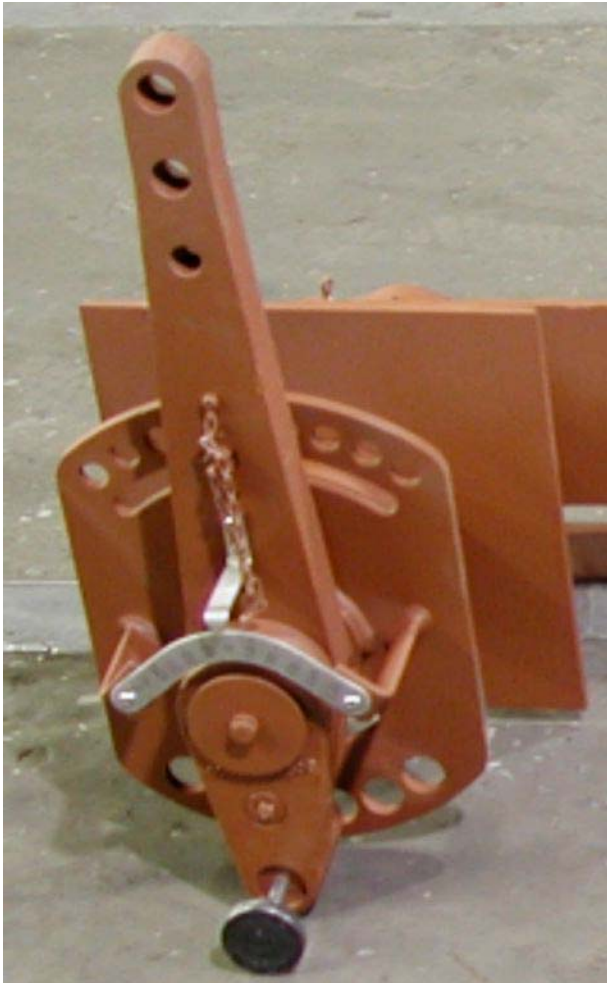
Combustion Systems

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No. 115.1

## Tilt upgrade helps restore steam temperature and emissions control...

### “Windbox Tilt Upgrade”



New FWEC tilt upgrades for tangentially-fired units can help restore reliability to windbox tilt operation.

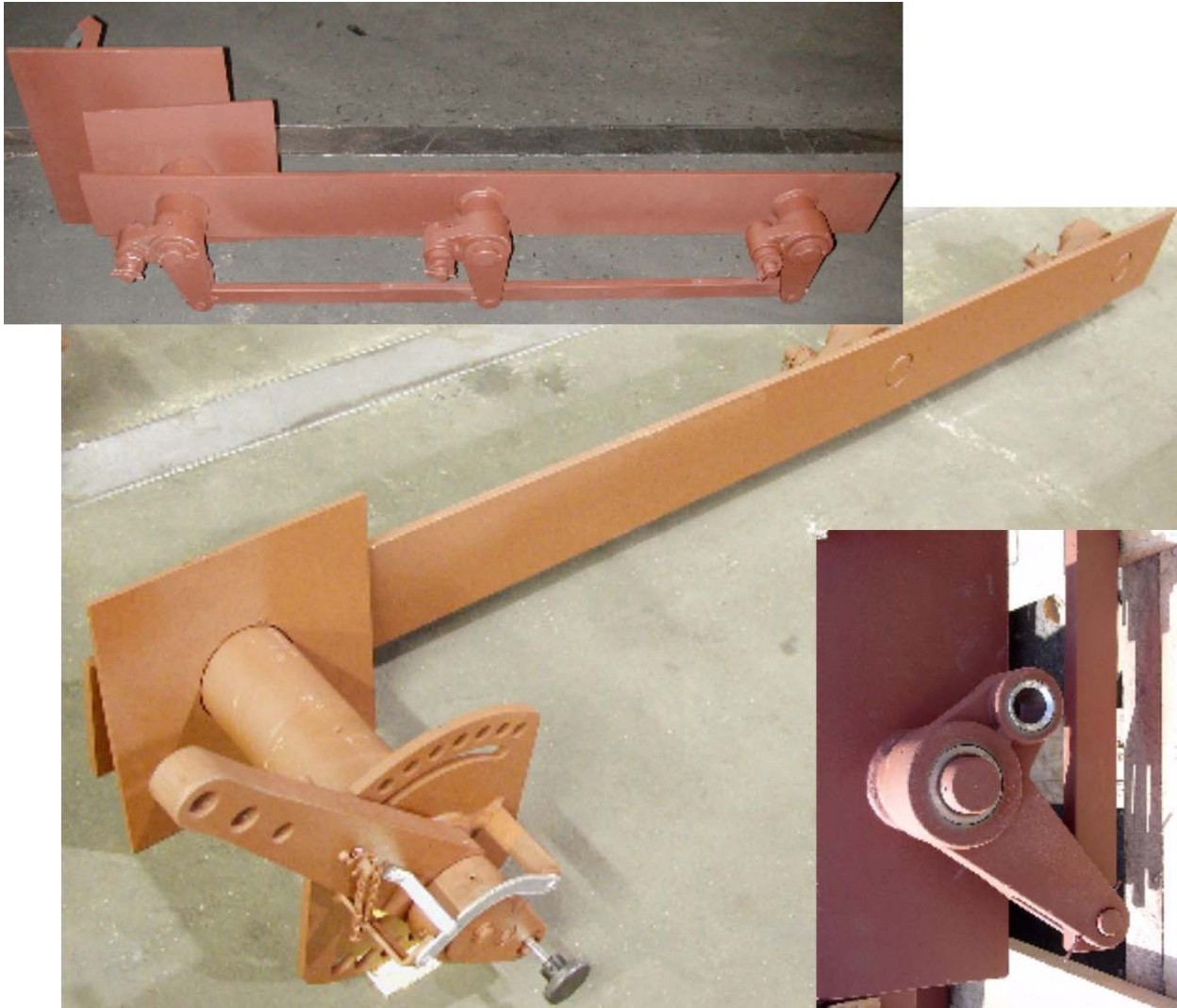
- Regain nozzle tilt range for steam temperature modulation and NO<sub>x</sub> / UBC / CO control.
- Shop-fabricated modules guarantee tolerance control, and speed field installation.
- Replaceable shear pins prevent damage to internal components upon failure.
- Quadrants provide local tilt indication.
- Stainless steel bushings prevent rotational seizing of bellcrank.
- Upgrade compliment replacement of worn pneumatic or electric tilt positioners.

## FWPG's Windbox Tilt Upgrade

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The operability of tilt mechanisms and drives on tangentially fired boilers can degenerate with years of service, neglect, and/or improper adjustment. This leads to loss of steam temperature and emissions control capabilities.

Installing a main windbox tilt upgrade is the only solution to restore the full design tilt range. Upgrading main windbox tilt mechanisms not only regain tilt operation, they feature: stainless steel bellcrank bushings, graphite direct drive bearings, and shear pin protection. These design features improve mechanical reliability for reduced maintenance, which in turn, provides the control room operator with the maximum control range for steam quality and emissions control.



The information presented above is continually updated. Please contact your local Foster Wheeler Power Group office for specific details.

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