



Design Update Bulletin

New ECT STAR makes On-line Coal Flow Measurement even more powerful...

“ECT STAR”

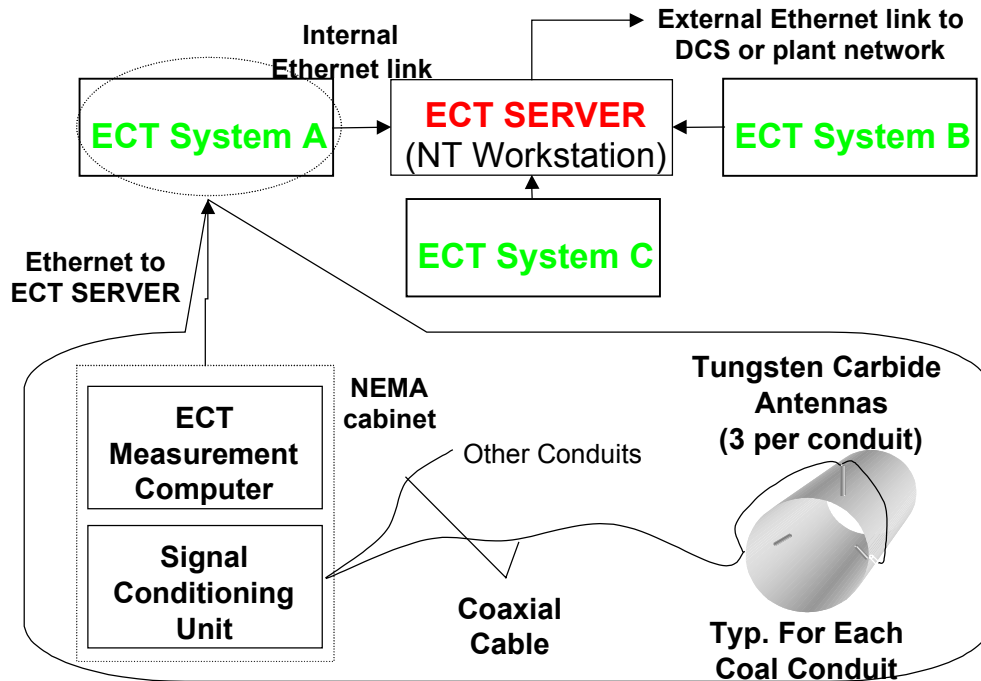
The new ECT STAR System is a cost-effective electrostatic technology that provides many ECT channels for various on-line measurements of the coal flow.

The new design offers:

- Coal Flow Balancing
- Monitoring of Particle Size Changes
- Particle Velocity Measurement
- Absolute Coal Flow Measurement
- Detection of Unsteady Flow Phenomena in Coal Pipes

ECT STAR eliminates the need for several separate computers to handle the data processing needs in large ECT (Electric Charge Transfer) installations. The system electronics is now integrated into racks that fit into a standard electronic cabinet. Several measurement tasks can be handled simultaneously. A central ECT SERVER displays and stores the data and communicates with the plant DCS, office computers or a combustion optimization system.





The ECT SERVER connects via Ethernet to all ECT processors. It collects the data and manages the internal ECT network. The ECT SERVER can be placed in the control room and acts as the file server for all the separate ECT processors.

Each of the satellite ECT Systems is configured to handle individual tasks, such as

- measurement of the coal flow balance in the coal conduits for improved emission and unburned carbon performance of the Low NOx firing system
- determination of coal flow velocity in the conduits to calculate absolute coal flow and check sufficient transport conditions
- monitoring the change of the fuel fineness to assess pulverizer performance
- detection of unsteady coal flow phenomena (such as surging) resulting in poor combustion performance and pressure excursions

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

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