



[Profile](#) [Bus Systems](#) [Field Service](#) [Careers](#) [E-mail Us](#)



Isolated Phase Bus Design

The Calvert Company
120 Aztec Drive
Richland, MS
39218

phone:
(601) 939-9191

fax:
(601) 932-2513

e-mail:
calvert@azz.com

web:
www.calvertbus.com



Isolated Phase Bus Design

The Generating Station Solution

This design eliminates problems common to connecting main generators to main transformers, unit transformers and auxiliary equipment in generating stations.

Each phase is mounted in individual enclosures. Conductors are air insulated and supported in the center phase enclosures by strategically arranged insulators. Phase-to-phase short circuits are eliminated and no current is induced in the steelwork, cables, pipes or other metal structures in close proximity to the bus.

The system is electrically continuous with all three phase enclosures bonded at the generator and transformer ends. The induced current flow in each is equal to the conductor current flow, but in an opposite direction. As a result, there is no flux external to the enclosure and no risk of current loss due to damaging inductive heating. Shielding provided by the enclosure reduces magnetic forces on conductors and stress on insulators as well.

In addition to convection-cooled systems, we manufacture force-cooled iso-phase buses. Each system, normally used for operations up to 40kA, includes air make-up equipment.

Profile
Bus Systems
Field Service
Careers
E-mail us

ISO 9001-2000 Certified

webmaster@azz.com

©AZZ incorporated 2005

Calvert manufactures electrical bus duct components and systems for the conduction of large volumes of electricity within power generation plants

We are an AZZ incorporated company



Electrical & Industrial Products

Hot Dip Galvanizing Services

Starting Strong - Staying Strong www.azz.com

Represented by:

George R. Peters *Associates* ENGINEERING SALES REPRESENTATIVES

(248) 524-2211 • Fax (248) 524-1758

Web Site: www.grpeters.com