

AFE IGBT
Drives
Bucyrus
Shovels

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BUCYRUS
INTERNATIONAL

BUCYRUS
INTERNATIONAL

BUCYRUS
ACUTROL III IGBT

AFE

495BII Shovel

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IGBT Active
Front End Block
Diagram

AFE Stagger

AFE IGBT Firing

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495BII Shovel

495BII Shovel

495BII Shovel

MAINTAINABILITY

MOTOR
MAINTAINABILITY

Maximized
Reliability

Maximized
Reliability

Maximized
Reliability

SYSTEM
MAINTAINABILITY

E IGBT AC Drives For

495BII Shovels

The Western Mining
Electrical
Association

Albuquerque, New Mexico

November 16, 2000

Frank G. Wickert

Bucyrus International, Inc.

**POWER
ELECTRONICS**

IGBT MODULE

**Maximized
Reliability**

**INSIDE AN IGBT
MODULE**

COMPATIBILITY

**Distribution
System
Compatibility**

**CONTROL
ELECTRONICS**

**CONTROL
CONCEPT**

**CONTROL
ELECTRONICS**

**DIAGNOSTIC
COMPUTER**

**DIAGNOSTIC
COMPUTER**

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COMPUTER**

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COMPUTER**

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**REMOTE
DIAGNOSTICS**

IGBT SUMMARY

**From Past
Successes
to Future
Innovations**

Hydraulic Crowd

**795-B DECK
PLAN**

Electrical

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**Moving Into The
Next Generation**

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