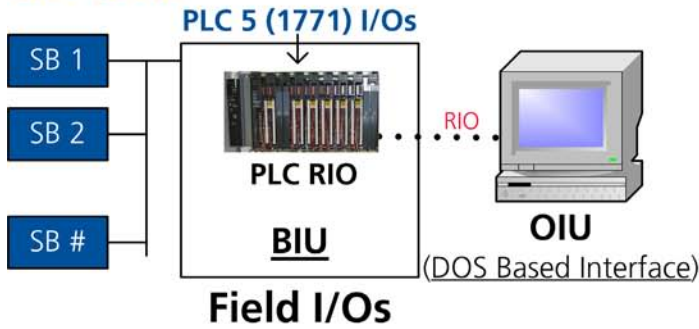
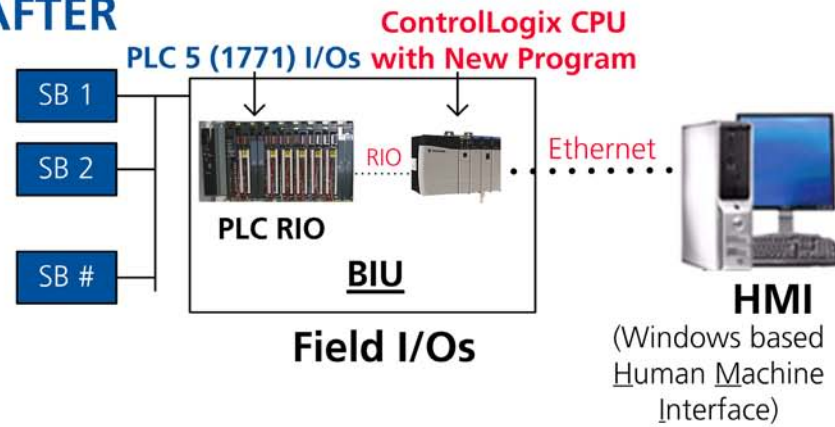


BEFORE



AFTER



TOSS THE BOS®

Project Update

SMART Controls™-PC is the most advanced control package for an Intelligent SootBlowing (ISB) application. "Toss The BOS®" is an option of SMART Controls™ which upgrades existing sootblower control systems and provides an Open Architecture design with added functionality. This simple and cost effective engineering design method upgrades existing non-supportive systems without any major modifications of field wiring.

Toss The BOS® utilizes existing programmable logic controller (PLC) input/output (I/O) hardware and their field connections reducing the cost of upgrade. The design is proven at several dozen installations. The SMART Clean™ ISB modules are implemented with this base upgrade or can be applied at a later date based on the customer's budget plan. Power plants can take the first step to move towards a fully automatic, SMART Clean™ ISB closed loop control system through Toss The BOS®.

Toss The BOS® provides an open architecture system that is supported and expanded without major hardware modifications.

Benefits

- User-friendly – Human Machine Interface (HMI) screens are highly adaptable and easy to use
- Expandability – Base system allows installations of future SMART Clean™ ISB modules (e.g. Dynamic flow/speed controls, Closed Loop Control using SMART Furnace and SMART Convection modules)
- DCS integration – Multiple options to interface plant's DCS, seamlessly and efficiently to incorporate sootblower controls
- Support – Remote log-in support available for troubleshooting and maintenance assistance

Clyde Bergemann is represented in over 40 countries worldwide.



- Clyde Bergemann Companies
- Clyde Bergemann Associates



Clyde Bergemann Atlanta

4015 Presidential Parkway
Atlanta, GA 30340

1 800-241-5996
T: 770-557-3600
F: 770-557-3651

Internet: www.cbpg.com
eMail: info@us.cbpg.com

**QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001:2008**

● **Europe**

Clyde Bergemann GmbH
Wesel / Germany
Tel.: +49 281 815-0
eMail: sales@cbw.de

Clyde Bergemann
Materials Handling Ltd
Doncaster / England
Tel.: +44 1302 552200
eMail: powersales@cmbh.co.uk

Clyde Bergemann Ltd
Glasgow / Scotland
Tel.: +44 141 550 5400
eMail: info@clydebergemann.co.uk

Clyde Bergemann Forest SA
Gosselies / Belgium
Tel.: +32 71 91 94 10
eMail: cbfsales@cbw.de

Clyde Bergemann
Service GmbH
Grevembroich / Germany
Tel.: +49 2181 164809
eMail: sales@clydebergemann.de

Clyde Bergemann Eesti AS
Tallinn / Estonia
Tel.: +372 625 9570
eMail: cbesales@cbw.de

Clyde Bergemann
DRYCON GmbH
Wesel / Germany
Tel.: +49 281 815-0
eMail: sales@cbw.de

Clyde Bergemann
Scandinavia Oy
Espoo / Finland
Tel.: +358 9 8330 0600
eMail:
scandinavia@clydebergemann.fi

Clyde Bergemann
Polska Sp. z o.o.
Tychy / Poland
Tel.: +48 32 216 8412
eMail:
biuro@clydebergemann.com.pl

Endat Oy
Espoo / Finland
Tel.: +358 9 2517 2519
eMail: info@endat.fi

Clyde Bergemann
TERMOTEC GmbH
Wilnsdorf / Germany
Tel.: +49 2739 80719-0
eMail: info@termotec.de

Clyde Bergemann
Brinkmann GmbH
Wesel / Germany
Tel.: +49 281 81534-0
eMail: info@clydebergemann.de

Clyde Bergemann
EP Tech S.r.l.
Battipaglia / Italy
Tel.: +39 0828 305 421
eMail: info@clydebergemann.it

● **Americas**

Clyde Bergemann Atlanta
Atlanta / GA-USA
Tel.: +1 770 557 3600
eMail: info@us.cbpg.com

Clyde Bergemann EEC
Baltimore / MD-USA
Tel.: +1 410 368 7000
eMail: info@cbeec1.com

Clyde Bergemann
Delta Ducon Inc.
Malvern / PA-USA
Tel.: +1 610 695 9700
eMail: sales@deltaducon.com

Clyde Bergemann Canada Ltd.
Cambridge, Ontario / Canada
Tel.: +1 800 267 3068 toll free
eMail: csc@clydebergemann.com

Clyde Bergemann
Anthony-Ross Company
Beaverton / OR-USA
Tel.: +1 503 641 0545
eMail: sales@anthonyross.com

Clyde Bergemann Bachmann Inc.
Auburn / ME-USA
Tel.: +1 207 784 1903
eMail: sales@bachmannusa.com

Clyde Bergemann do Brasil Ltda
Mogi Guacu / Brazil
Tel.: +55 19 3841 5086
eMail:
contato@clydebergemann.com.br

Clyde Bergemann Colombia SAS
Bogotá / Colombia
Tel.: +57 310 3251152
eMail: info@clydebergemann.com

● **Asia**

Shanghai Clyde Bergemann
Machinery Co., Ltd
Shanghai / China
Tel.: +86 21 65396385
eMail: sales@scbmc.com

Clyde Bergemann Huatong
Materials Handling Company Ltd
Beijing / China
Tel.: +86 10 58561956
eMail: sales@cbh.net.cn

Clyde Bergemann Energy &
Environmental Technology
(Beijing) Co., Ltd
Beijing / China
Tel.: +86 10 51650099
eMail: general@cbbeijing.com

Clyde Bergemann India Pvt. Ltd
Noida (Uttar Pradesh) / India
Tel.: +91 121 4073 101
eMail: sales@clydebergemann.in

Macawber Beekay Ltd
New Delhi / India
Tel.: +91 11 619 5563
eMail: rohith@bsbkgroup.com

PT. Clyde Bergemann Indonesia
Jakarta / Indonesia
Tel.: +62 21 532 8002
eMail:
agustinus.tjhay@clydebergemann.com

● **Australia**

Clyde Bergemann Senior Thermal
Pty Ltd
Wetherill Park / Australia
Tel.: +61 2 9757 7400
eMail: sales@cbst.com.au

● **Africa**

Clyde Bergemann Africa Pty Ltd
Kya Sands / South Africa
Tel.: +27 11 704 0580
eMail: enquiry@cbz.co.za