

EXECUTIVE SUMMARY

External walkdown of the CleanSwitch RTO found no abnormalities on the housing, ductwork, gas train, dampers, or access structures. Nameplate data was captured for two units (CS-650 shipped 03/2016 and CS600 shipped 09/2010), and safeties tested OK during the electrical and pneumatic check. Given the 14+ year service age on the older unit, schedule an internal media bed and switching valve inspection at the next planned outage.

PRIORITIZED ACTIONS

1

Plan internal media bed and switching valve inspection at next scheduled outage on CS1123.

TARGET: NEXT PLANNED OUTAGE

INFO

2

Archive captured nameplate data (CS1217 and CS1123) in equipment master record for traceability.

TARGET: WITHIN 30 DAYS

INFO

3

Verify exhaust fan vibration and bearing temperature trends against baseline at next PM.

TARGET: NEXT QUARTERLY INSPECTION

INFO

4

Continue routine external walkdowns of ductwork, gas train, and damper actuators.

TARGET: NEXT QUARTERLY INSPECTION

GOOD

FINDINGS

01 Overall picture of unit

GOOD



— LEGEND

- 1 Inlet Ductwork**
Insulated process inlet duct to RTO
- 2 Gas Train**
Yellow natural gas piping and valves
- 3 Access Platform**
Maintenance platform with ladder access
- 4 Control Enclosure**
Control cabinet with cooling unit attached

– DISCUSSION

Exterior of the CS300 housing, insulated process inlet duct, yellow natural gas train, and yellow access ladder/platform all present as installed with no visible deformation, coating failure, or leakage. Control enclosure with side-mount cooling unit is intact.

– RECOMMENDATION

No action. Maintain on standard external walkdown cadence.

02 Front side view

● GOOD



– LEGEND

1 Isolation/Fresh Air Damper

Damper actuator assembly intact, no leakage

2 Tee Damper Junction

Tee damper ductwork seams sound

3 Exhaust Fan Housing

Fan housing exterior shows no deformation

– DISCUSSION

Front-side view of the isolation/fresh air damper actuator, tee damper junction, and exhaust fan housing shows sound seams and no actuator leakage or housing deformation. Galvanized ductwork is in serviceable condition.

– RECOMMENDATION

Trend exhaust fan vibration and damper stroke times at the next PM to confirm continued health.

03 Untitled finding

INFO



— LEGEND

1 Unit Identification

Unit and project numbers documented for traceability

2 Model And Ship Date

CS-650 model, shipped March 2016

3 Manufacturer

B&W MEGTEC Systems nameplate legible

- DISCUSSION

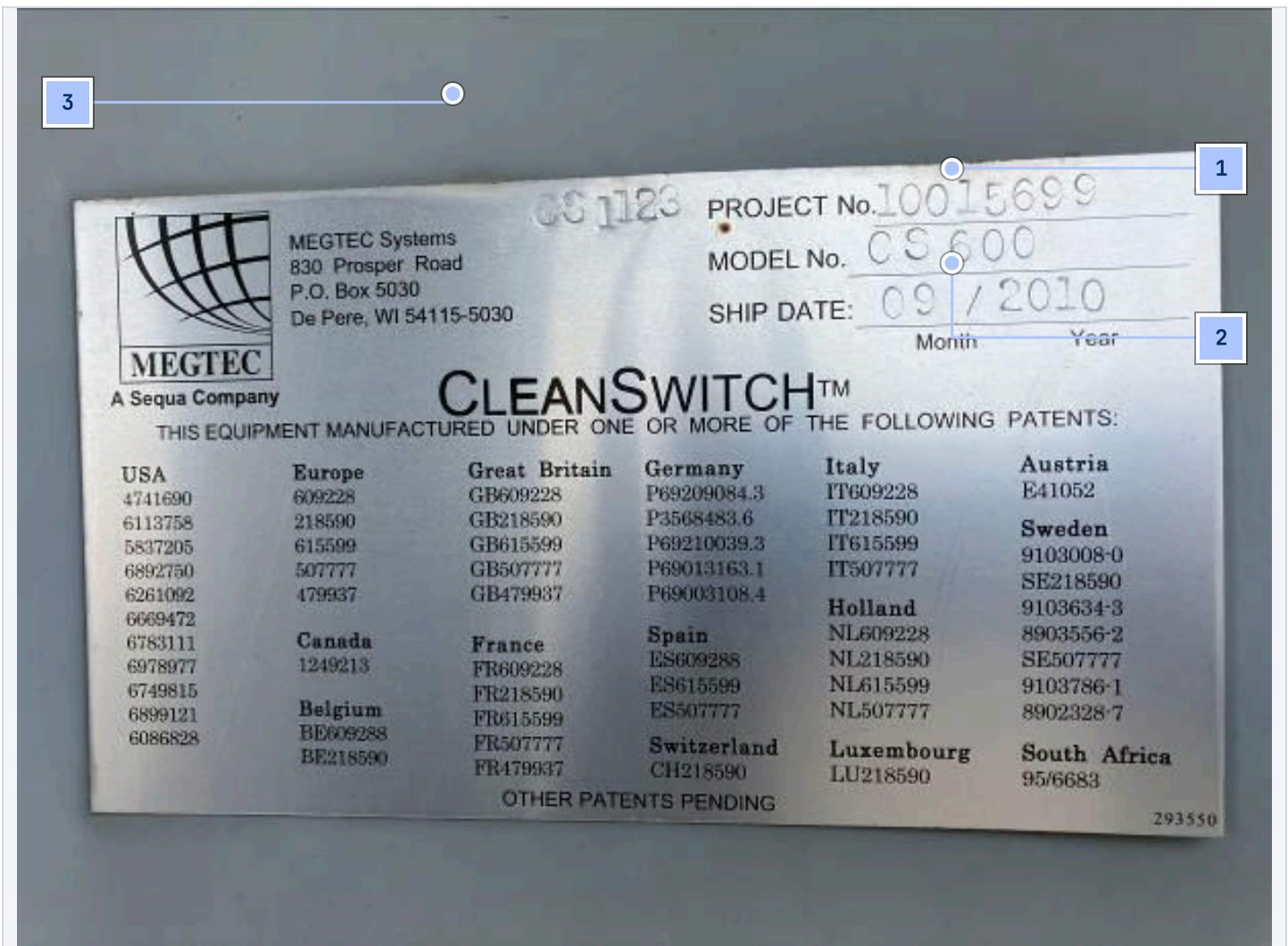
B&W MEGTEC nameplate is legible: Unit CS1217, Model CS-650, shipped 03/2016. Unit and project numbers recorded for the equipment file.

- RECOMMENDATION

Log nameplate data in the asset register and link to this walkdown record.

04 Job Tag

INFO



– LEGEND

1 Model & Project

Model CS600, Project 10015699 identified

2 Ship Date

Ship date 09/2010, ~14 year service age

3 Unit Serial Tag

Handwritten unit ID CS1123 noted

– DISCUSSION

Job tag confirms Model CS600, Project 10015699, ship date 09/2010, handwritten unit ID CS1123 — approximately 14 years in service. Electrical and pneumatic safeties tested OK at the time of walkdown.

– RECOMMENDATION

Given service age, schedule an internal inspection of media beds, poppet shafts, and switching valve seats at the next planned outage.

05 Overall picture of unit

GOOD



– LEGEND

- 1 Process Duct Connection**
Main process inlet ductwork intact

- 2 Natural Gas Header**
Burner fuel gas piping run, no leaks visible

- 3 Media A Access Door**
Inspection hatch for Media A bed

- 4 Access Ladder/Platform**
Service platform and ladder appear secure

– DISCUSSION

Internal-inspection-day overview shows the main process inlet duct connection, natural gas header to the burner, Media A access hatch, and service platform/ladder all in sound condition with no visible leaks or structural concerns.

– RECOMMENDATION

Proceed with planned internal media bed inspection; no external corrective action required.