

CRCS RETROFIT – CCR PLATFORMING™



Honeywell UOP provides tailored Aftermarket solutions that allow customers to focus on proactive maintenance strategies, operational optimizations and improvements, and reduction in total cost of ownership. UOP is committed to providing customers with proven control system technology to help ensure the long-term performance and reliability of UOP equipment. UOP proudly offers CRCS retrofits that provide customers with control systems designed to improve existing operations to most efficiently meet business goals.

Control System Modernization

UOP’s investment in continuous product design shows our commitment to technology development and updates for improved lifecycle management.

- Modernization of your CCR control systems allows you to take advantage of new functionality with enhanced troubleshooting tools
- As technology advances, hardware capabilities are quickly surpassed by new platforms

Why should you retrofit?

With the pace of technology advancements, system components are becoming obsolete more quickly. The UOP control system retrofits have been developed to offer the following benefits:

- Overcome obsolete spare part availability issues
- Utilize current technology
- Additional Safety features
- Additional catalyst safety features

Technology Evolution

The UOP retrofit designs use the latest in critical control and capture enhancements from current CCR technology. By integrating this with our accrued process knowledge, the systems can provide the following benefits in:

- Process (functionality)
- Operating (ease of use)
- Training (troubleshooting)
- Equipment protection (hardware)

For more information

www.accessuop.com

UOP LLC, A Honeywell Company

25 East Algonquin Road
Des Plaines, IL 60017-5017, U.S.A.
www.uop.com

Justification

“Our current unit has been running just fine for years. How can I justify replacing it?”

If you’ve had issues with the following, it may be time to consider upgrading:

- Performance
- Number of Shutdowns & recovery time
- Regen screen failures
- Maintenance budgets

What Can UOP Offer for Control System Retrofits?

- More efficient output for optimum catalyst regeneration for maximum process profitability
- High on-stream factor/reliability
- Faster start-up and recovery from non-steady state operation
- Protection of catalyst and equipment resulting in maximum catalyst life and minimum maintenance requirements
- Safe operation – automatic regenerator shutdown should abnormal conditions be encountered; independent operation from the DCS if required

Top Features

• White Burn Inhibit

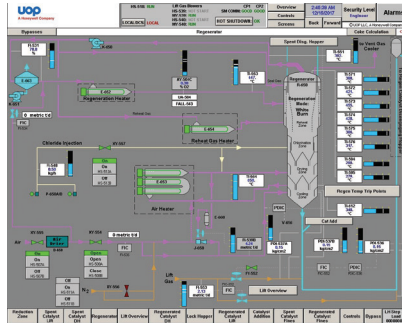
Enhanced safety mechanism prevents operators from unintentionally regenerating twice-coked catalyst in the lower part of the regeneration tower. This feature helps to reduce chances of mechanical damage to the equipment or catalyst which can cause unplanned shutdowns.

• Regen Screen Protection

Enhanced safety mechanism gives customers the ability to set and adjust their own temperature trip values in the burn zone; reducing the potential risk of thermally damaging the catalyst or screen.

• Dynamic Help Screens

Troubleshooting aid delivers faster diagnostics through logic step requirements and what conditions need to be satisfied for the operation to continue or to diagnose trips that may have occurred.



White Burn Inhibit

Regeneration Zone	High Trip Point	Low Trip Point	Description	Setpoint
Regeneration Burn Zone 1	TI-671	TI-672	Regeneration Burn Zone 1 High Trip Point	650 °C
Regeneration Burn Zone 2	TI-673	TI-674	Regeneration Burn Zone 2 High Trip Point	600 °C
Regeneration Burn Zone 3	TI-675	TI-676	Regeneration Burn Zone 3 High Trip Point	600 °C
Regeneration Burn Zone 4	TI-677	TI-678	Regeneration Burn Zone 4 High Trip Point	600 °C
Regeneration Burn Zone 5	TI-679	TI-680	Regeneration Burn Zone 5 High Trip Point	600 °C
Regeneration Burn Zone 6	TI-681	TI-682	Regeneration Burn Zone 6 High Trip Point	600 °C
Regeneration Burn Zone 7	TI-683	TI-684	Regeneration Burn Zone 7 High Trip Point	600 °C
Regeneration Burn Zone 8	TI-685	TI-686	Regeneration Burn Zone 8 High Trip Point	600 °C

Regen Screen Protection

Condition	Severity	Priority	Response
Emergency Stop Switch is Open	High	High	Stop
Value Pressure Burn Off Range	High	High	Stop
Regeneration Burn Zone 1 High Trip	High	High	Stop
Regeneration Burn Zone 2 High Trip	High	High	Stop
Regeneration Burn Zone 3 High Trip	High	High	Stop
Regeneration Burn Zone 4 High Trip	High	High	Stop
Regeneration Burn Zone 5 High Trip	High	High	Stop
Regeneration Burn Zone 6 High Trip	High	High	Stop
Regeneration Burn Zone 7 High Trip	High	High	Stop
Regeneration Burn Zone 8 High Trip	High	High	Stop
Regeneration Burn Zone 9 High Trip	High	High	Stop
Regeneration Burn Zone 10 High Trip	High	High	Stop
Regeneration Burn Zone 11 High Trip	High	High	Stop
Regeneration Burn Zone 12 High Trip	High	High	Stop
Regeneration Burn Zone 13 High Trip	High	High	Stop
Regeneration Burn Zone 14 High Trip	High	High	Stop
Regeneration Burn Zone 15 High Trip	High	High	Stop
Regeneration Burn Zone 16 High Trip	High	High	Stop
Regeneration Burn Zone 17 High Trip	High	High	Stop
Regeneration Burn Zone 18 High Trip	High	High	Stop
Regeneration Burn Zone 19 High Trip	High	High	Stop
Regeneration Burn Zone 20 High Trip	High	High	Stop
Regeneration Burn Zone 21 High Trip	High	High	Stop
Regeneration Burn Zone 22 High Trip	High	High	Stop
Regeneration Burn Zone 23 High Trip	High	High	Stop
Regeneration Burn Zone 24 High Trip	High	High	Stop
Regeneration Burn Zone 25 High Trip	High	High	Stop
Regeneration Burn Zone 26 High Trip	High	High	Stop
Regeneration Burn Zone 27 High Trip	High	High	Stop
Regeneration Burn Zone 28 High Trip	High	High	Stop
Regeneration Burn Zone 29 High Trip	High	High	Stop
Regeneration Burn Zone 30 High Trip	High	High	Stop
Regeneration Burn Zone 31 High Trip	High	High	Stop
Regeneration Burn Zone 32 High Trip	High	High	Stop
Regeneration Burn Zone 33 High Trip	High	High	Stop
Regeneration Burn Zone 34 High Trip	High	High	Stop
Regeneration Burn Zone 35 High Trip	High	High	Stop
Regeneration Burn Zone 36 High Trip	High	High	Stop
Regeneration Burn Zone 37 High Trip	High	High	Stop
Regeneration Burn Zone 38 High Trip	High	High	Stop
Regeneration Burn Zone 39 High Trip	High	High	Stop
Regeneration Burn Zone 40 High Trip	High	High	Stop
Regeneration Burn Zone 41 High Trip	High	High	Stop
Regeneration Burn Zone 42 High Trip	High	High	Stop
Regeneration Burn Zone 43 High Trip	High	High	Stop
Regeneration Burn Zone 44 High Trip	High	High	Stop
Regeneration Burn Zone 45 High Trip	High	High	Stop
Regeneration Burn Zone 46 High Trip	High	High	Stop
Regeneration Burn Zone 47 High Trip	High	High	Stop
Regeneration Burn Zone 48 High Trip	High	High	Stop
Regeneration Burn Zone 49 High Trip	High	High	Stop
Regeneration Burn Zone 50 High Trip	High	High	Stop

Dynamic Help Screens

© 2018 UOP LLC. All rights reserved. The information in this document should not be construed as a representation for which UOP assumes legal responsibility, or an authorization or recommendation to practice a patented invention without a license. UOP8265 August 2018

