A common source of increased emissions and decreased performance from vapor recovery systems is activated carbon degradation. JZHC offers two services to address this problem: our innovative BWC Boost™ process and carbon replacement. Before either can be recommended, JZHC provides comprehensive carbon sampling and testing. This measures the condition of your carbon and determines whether the carbon is in good condition, a candidate for BWC Boost, or if you require a full carbon replacement.

The BWC Boost Process
BWC Boost is a JZHC-exclusive process that can raise the Butane Working Capacity (BWC) of your carbon. Developed specifically to increase the life span of the activated carbon in a Vapor Recovery Unit (VRU), the process requires less downtime and cost than full carbon replacement.

For carbon with a low BWC grade and little or no dust content, the BWC Boost process removes hydrocarbon residue trapped in the carbon bed without removal or replacement of the carbon itself. Testing shows improvement to a BWC B grade on a variety of carbon conditions.

BWC Boost Benefits
- Restores carbon to a higher BWC
- Extends carbon life
- Improves performance (BWC and emissions capture)
- Requires less downtime (2 to 3 days compared to 5 for carbon change out per standard VRU)
- Does not require disposal of spent carbon

BWC Boost is a cost-effective alternative to full carbon replacement.
Carbon Replacement
JZHC can also provide turnkey service to replace the old activated carbon with new, virgin activated carbon. After several years of service, the activated carbon in VRUs can mechanically degrade over time and create dust. This dust can cause contamination and plugging of other processes in the VRU and potentially cause channeling of vapors due to the compaction of the fine carbon particles. Completely replacing the carbon removes the dust from the system and provides a fresh start for the VRU.

Carbon replacement projects typically include the following:
- Remove the old activated carbon from the VRU and place in disposable containers
- Inspect interior of the carbon vessels including the carbon support screens or spargers
- Make minor repairs to carbon support screens if necessary
- Install new activated carbon into the vessels
- Perform a saturation procedure to establish a hydrocarbon heel on the new carbon
- Place VRU into a cleanup mode and fine-tune system to ensure proper operation
- Place unit back into normal service

Carbon Replacement Benefits
- Eliminates dust from carbon vessels which can mitigate various issues with the VRU
- Provides a fresh start with virgin activated carbon
- Provides an opportunity to upgrade your carbon type with the highest working capacity available in today’s market
- While VRU is down, provides opportunity for seal fluid flush for liquid ring VRUs or other maintenance activities and upgrades that cannot be performed during normal quarterly maintenance

Optimize your VRU performance. Ask about JZHC Carbon Services today. 918.234.2777

Qualified, Professional Service
All JZHC carbon services are conducted by experienced service technicians who are OSHA 10 and confined-space entry trained to perform carbon removal and replacement, vessel interior inspection and repair, and process skid clean-out.

Portable Emission Control System (PECS)
JZHC has an inventory of rental combustors to process vapors while you are performing carbon services on your VRU to keep your facility up and running.

ACTIVATED CARBON INSTALLATION

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