



## Liquid Slurry System

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### Application / Equipment Details:

- Material: Powdered Activated Carbon
- Bulk Density: 20 – 23 PCF
- Particle Size: 30 – 40 micron
- Area Classification: General Area

### Application Overview:

Customer had very limited space and overhead height and needed a solution to transfer powdered activated carbon from bulk bags into a slurry mixing tank. NBE was able to design a low-overhead version of our fork-style bulk bag unloader with dual fork locations to fit within their requirements. An offset combo hopper was incorporated to allow for small bag additions, and helped tighten up the overall space required to convey the material to the slurry mixing tank.

NBE designed and fabricated the 600 gallon stainless steel mixing tank to accommodate the customer's slurry batch requirements. The tank was provided with load cells to capture the correct additions of liquid and the powdered activated carbon, which are then mixed with the integrated Brawn mixer.

Dust collection is included and sized to adequately capture dust from the bulk bag unloader, small bag area, and dust in the head space of the tank. Collected dust is systematically returned to the slurry mixing tank, eliminating waste.

