



POTASSIUM SULFATE MAKER RECLAIMS VALUABLE PRODUCT WITH GOLD SERIES®

PRODUCT INFORMATION

Product: Gold Series® dust collector
Size: GS16/12
Application: High Purity Potassium Sulfate
Customer: Big Quill Resources - Wynyard, SK, Canada
Representative: Cypress Sales Partnership

COMPANY PROFILE

Big Quill Resources in Wynyard, Saskatchewan, Canada is a manufacturer of high purity potassium sulfate.

CHALLENGE

Potassium sulfate is a specialty plant fertilizer that is utilized on crops that have a low tolerance to chlorides in standard potash fertilizer. Previously, a cyclone was used to control dust from a bucket elevator, screen, bin and truck loading areas. Because of low cyclone efficiency, they were losing valuable product that was exhausted from the cyclone to the atmosphere. In the fall of 2008, Big Quill Resources planned to replace their cyclone with a more efficient dust collector.



Up in the air GS16/12 collects the airborne product that is loaded into the semi trucks.

SOLUTION

Camfil Farr APC rep Darin Boire from Cypress Sales Partnership of Saskatoon worked with this company to determine a solution. Big Quill provided the specification and Darin quoted a GS16/12 with ARI, airlock and DuraPleat® spun bond cartridges.

Darin says, “The first row of filters were taken out to increase the drop out capture. In high humidity conditions the potassium sulfate dust has poor flowability and has a tendency to bridge and “rat-hole”. Big Quill Resources Inc. installed a vibrator on the collector hopper to ensure complete discharge of the dust.” Bes Blentic of Camfil Farr APC and

Darin Boire had a final meeting with Big Quill to discuss the details. The GS16/12 was shipped at the end of 2008 and it has been operating since February 2009. The highly efficient GS16/12 is rated at 5,500 CFM with 10” of static pressure.

The emissions are close to zero, which results in no loss of the product into the air. Big Quill now recaptures up to 5 tons per month of potassium sulfate dust during peak shipping periods. Darin says, “I think the support that Farr and Cypress Sales provided was something that Big Quill liked. Rural Saskatchewan doesn’t see many reps come out for personal visits—especially a manufacturing rep from Toronto.”

Pressure drop across the cartridges was 1.2” w.g. measured in April 2010, more than a year after installation. Big Quill Resources is very happy with the trouble free operation, quality, and reliability of the Camfil Farr APC collector. They ordered a larger GS32/24 on the same type of dust that was shipped February 2010. Cypress Sales is now working with Big Quill on a third GS dust collector.



Gold Series® model GS16/12 replaced a cyclone, which used to emit product into the air.

For further information regarding this application, contact APC rep Darin Boire of Cypress Sales Partnership at 1-306-222-5872.

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