



News Release

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Fluid Quip Technologies adds Protein System to Little Sioux Corn Processors Ethanol Plant

Marcus, Iowa – Little Sioux Corn Processors announced today it will install Fluid Quip Technologies' (FQT) patented **Maximized Stillage Co-Products™ (MSC)** system at its Marcus, Iowa, ethanol plant. This will be the 7th installation of this technology, worldwide, and the 3rd installation of the MSC™ system in Iowa. FQT currently has two other MSC installation projects ongoing, at the Flint Hills Resources (FHR) plant in Shell Rock, IA, and at the Green Plains Renewables (GPR) facility in Shenandoah, IA.

The MSC technology allows dry mill ethanol plants to separate 50% purity protein from the residual corn fiber, carbohydrates and oils that remain after the ethanol distillation process. The MSC™ 50% protein product trades in the high-value protein feed markets worldwide.

“We believe in getting the highest value for the corn we grind, the MSC system is a proven way to not only significantly increase our revenue, but also diversify our revenue stream so it is not so heavily weighted on ethanol”, said Steve Roe, General Manager at Little Sioux. “We looked at a lot of technology options in the space to improve our plant and we chose FQT because MSC™ has a proven track record of operating for 10 years and producing a high-quality consistent product across multiple facilities,” he added.

The MSC system also significantly improves distillers' corn oil yield further improving the bottom line. The Little Sioux MSC project will require the addition of a new process building, a protein dryer, and segregated protein storage and load-out. Engineering has begun and construction is expected to start in spring 2020.

Roe said, “The plant will remain in full operation during the project's construction”.

Fluid Quip Process Technologies will provide the MSC™ technology, separation equipment, process equipment, process engineering, construction oversight, as well as full technology commissioning and startup support for the MSC™ project.

FQT has spent years conducting feeding trials and market development work with partners to bring the MSC specialty protein product to the world marketplace. “Only the FQT MSC system produces the high quality differentiated MSC protein product,” said Neal Jakel, Partner/Strategy and Technology for FQT. “The MSC product is consistent across all operating facilities. This is critical in driving up the value to end users; consistency of product across the supply chain and a library of proven feeding trial successes to rely on,” noted Jakel.

“This is an exciting time for the ethanol industry, and more importantly rural communities. The ethanol facilities making the decision to diversify their revenue and broaden the use of corn with our technologies are setting themselves and their shareholders on a path for continued revenue growth. FQT technologies are helping facilities to realize the Bio-refinery concept, bringing economic diversity and stability to farm families and the communities that are the backbone of America”, Jakel added.

About Fluid Quip Technologies

Fluid Quip Technologies is headquartered in Cedar Rapids, Iowa; with all engineering, design, R&D, and project management functions operating in this central Mid-West location.

After years of experience in the corn wet mill and ethanol industries, Fluid Quip Technologies developed the MSC™ technology to provide innovative solutions for dry mill ethanol facilities like those operated by Little Sioux Corn Processors.

FQT has provided technologies for over 2.4 billion gallons per year of biofuels production. The company provides fully integrated custom technologies solutions and services to dry-grind ethanol and biochemical facilities which include process optimization studies, yield improvement technologies, new co-product technologies, and turn-key capital projects.

About Little Sioux Corn Processors, LLC

Little Sioux Corn Processors is a 160 million gallon per year corn ethanol facility located in Northwest, Iowa employing approximately 48 people. Operations began in April 2003 as a 40mmgy facility.

The Little Sioux plant buys 53.5 million bushels of corn annually to produce 160 million gallons of ethanol, 342,000 tons of dried distillers' grains equivalent and over 58 million pounds of distillers' corn oil. The Little Sioux MSC system is designed to produce 156,200,000 pounds of 50%purity protein.