**Service/Product Provider**

**Gardner Denver**
1800 Gardner Expressway
Quincy, IL 62305

Business: Air Compressor Manufacturing

Tom Beck
Product Specialist
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**Industrial Partner**

**McCain Foods USA**
218 W. Highway 30
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Business: Food Processing

Jordan Green
Engineering Manager
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**Gardner Denver compressors and controls save McCain Foods more than $50,000 per year**

**Project Scope**
McCain Foods ran three air compressors to supply compressed air for production, with two 200HP compressors running fully loaded year-round and one 150HP cycling to meet the system demand. A compressed air energy audit conducted by Gardner Denver showed an average year-round load of 382 kilowatts. A new variable-speed compressor and controls were installed to optimize efficiency.

**Project Summary**
By installing a new Gardner Denver variable-speed compressor and control system, the plant reduced energy use by allowing one existing unit to run fully loaded and the new variable-speed machine to match the remaining load. Further energy savings were gained by replacing the dryer, increasing piping, and adding receiver capacity.

- **Energy Savings**
  Annual electricity savings of 1,742,825 kWh and more than $50,000

- **Investment**
  $327,404 in labor and equipment costs

- **Financial Return**
  With state incentives, less than 2.5 years payback

- **Other Benefits**
  New compressor and dryer added buffer capacity to the system, enabling steady productivity levels, even during maintenance

**Monitoring & Verifying Energy Savings**
Monitoring data shows a $5,000/month savings, surpassing the initial calculations of $50,000/year. This is a sizeable savings considering power costs at this location are only $0.03/kWh.

**Distinguishing Value**
High performance of Gardner Denver rotary screw compressors has helped McCain Foods to maintain production at the highest level. Whether constant air demand or a fluctuating day-to-day or shift-to-shift compressed air requirement, Gardner Denver assists in maximizing productivity and energy savings.