

## Bison Gear & Engineering Features:

# Bison Gearmotors Keep Oil Pump Stations Running in Extreme Environments

**BACKGROUND:** Oil pump stations operate in rugged, remote areas. To ensure sustained oil-flow throughout these areas, solar powered chemical-injection pumps are installed to monitor the flow of oil and inject chemicals directly into the pipes to prevent freezing, fungal build-up or other potential issues that could disrupt flow. Bison gearmotors are a perfect solution to driving the pumps in this application as they are built to withstand extreme weather conditions and do not require regular service or upkeep.

**THE PROBLEM:** Temperature extremes in remote areas caused a competing gearmotor to leak oil, resulting in the injection pumps shutting down and the pump station requiring on-site maintenance. An inspection showed extreme heat wore the bearing seals in the gearmotor, thereby causing the oil to leak and the system to fail. When Bison engineers came to consult on the problem, understanding the extreme elements acting on the pump was crucial. They identified the following issues:

- Remoteness of the application
- Extreme high/low temperatures
- High overhung load



### **SOLUTION: Bison's Custom Engineering Team and DC 100 Series Gearmotor**

Bison's Engineering Team came back with a custom DC 100 Series gearmotor specifically designed to thrive in the harsh application.

**RESULTS:** The Bison 100 Series DC Gearmotor performs in applications like these every day without incident.



#### **Industry Reference:**

NAICS CODE: 333132

SIC CODE: 35339903