

## COMMUNITY ENGAGEMENT THE CAL STATE APEP PROGRAM



### APEP Program

The pump test facility at California State University at Fresno, featuring the National Pump Model J12XHC, serves a dual purpose that benefits both industry and education. For over 15 years, the facility has been a cornerstone for independent pump testing.

APEP's rigorous testing process supports an initiative aimed at enhancing the efficiency of pumping systems and promoting energy conservation within California's irrigation sector. In addition to its role in pump testing, the facility provides invaluable hands-on learning opportunities for engineering students. By engaging with real-world pump operation and testing scenarios, students gain practical experience that complements their theoretical knowledge, preparing them for professional careers in engineering and pump systems. This integration of education and practical application highlights the facility's contribution to both academic advancement and industry progress.



## Summary of Work Completed

National Pump Company is proud that our pump was selected to be a major part of this successful program. The existing NPC pump was used for over 15 years and pulled as a part of routine maintenance.

After pulling the pump the determination was made for complete overhaul, before being returned to the Fresno test facility. During the disassembly at NPC's manufacturing facility in Fowler, CA, we observed that the pump was in generally good condition despite its extended use. The bowl shaft had some scoring, and the impeller showed signs of wear, but both components were still functioning well. We ensured that all parts were properly cleaned, lubricated, and aligned to optimize performance and anticipate the pump to continue operating with another 15 years of service.

After reassembly the pump was coated with Tnemec N-140 before being returned to the the Fresno test facility, all in a timely fashion.

## GO BULLDOGS!!!

APEP Program is a dynamic and aggressive program designed to improve efficiencies and reduce operating costs for the farmers in the central valley. National Pump Company is proud to be teaming with the Bulldogs of Fresno State.



## About NPC

National Pump Company manufactures a complete line of vertical lineshaft turbine, submersible, and booster pumps for the agricultural, municipal, petroleum, and industrial-commercial markets with both NSF-61 and ISO 9001 certification at our corporate office in Glendale AZ.