

**NINE NATIONAL 24XHC PUMPS ARE THE HEART
OF A 19,000 HP PUMP STATION**



East Improvement District & IRZ Consulting dedicated the largest new Irrigation pumping station on the Columbia River in 40 Years. Hard to believe that it was three years ago that National Pump Company supplied 10 pumps for this Pump Station on the Columbia River near Hermiston, Oregon.

The Station uses 9 Model 24XHC with 2000 HP motors to pump 11,200 gpm each at 560 ft. TDH, as the primary pumps and a K20MC-5 1000 Hp as a secondary pump. At the time of dedication, May 7, 2021. National Pump Company supplied the Pumps to Pasco Machine, who acted as the General Contractor supplying and installing the pumps.

IRZ Engineering and Consulting is a leader in irrigation engineering – design and one of the largest on-farm water management companies in the US, specializing in agricultural irrigation systems. The company, founded in 1984 has a long history of working with farmers in the Columbia River Basin of Washington and Oregon

The large project is capable of moving 100,000 gpm through an 84 inch pipeline across 8 miles and a change in elevation of 500 ft. To accomplish this the farmers in the region wanted state of the art pumps, variable frequency drives, and the latest in control technology including remote monitoring and control of the pumps via cell phone. In addition to the above, the system uses Fiber glass reinforced pipe, which proved to be both higher in efficiency (lower friction losses) and lower in cost.

Mr. Ziari stated that if Steel pipe had been used an additional 3,500 HP would have been required.

The project, which was over ten years in the making, was necessitated as a result of ground-water depletion in the area now serviced by this pump station and pipeline. Cooperation between local and state officials with a solid team of the engineers at IRZ, as well as the work of companies like Siemens, National Pump and Pasco Machine all combined to make the project a success.



National Pump Test stand where the pumps were tested

As water shortages continue to plague various areas of the country, the folks in the Columbia river valley are taking steps to assure a constant supply of water for the over 26,000 acres of irrigated farmland. In addition to the East Project, two additional projects, The West Project and the Ordinance Project are in the development stages. National Pumps is proud to be a part of this project and looks forward to working on the next ones.