Village of Wellington Membrane Replacement

(Oceanside, CA, June 20, 2011) In collaboration with Hydranautics, the Village of Wellington has replaced membrane elements in their first 2 original trains and has upgraded their RO system. Village staff and Hydranautics together designed the replacement and upgrade project incorporating Hydranautics ESPA2MAX in stage 1 followed by their ESNA1-LF-LD nano-filtration membrane in the 2nd stage. ESPA2MAX elements offer 440 ft^2 of active membrane surface area, thus allowing the system to operate at a lower average flux (14.4 gfd) and reduce the lead element flux to 18 gfd. The use of the ESNA1-LF-LD membranes in stage 2 provides the ability to balance stage flux without an interstage boost or 1st stage permeate backpressure.

According to Sean McFarland, the Village of Wellington Supervisor of the Water Treatment Facility, "We plan to install VFDs on our RO feed pumps in the future to take advantage of this tremendous savings in energy. We've gotten 13 years of service from our existing membranes, but it was time to take advantage of the improvements in technology. The new membrane technology allows us to increase our permeate recovery, send less concentrate water down the deep injection well, save on electrical expenses, and obtain the permeate quality we were looking for with the installation of the new LD Technology membrane elements from Hydranautics."

Hydranautics, the industry leader in membrane technology, has clearly demonstrated operating cost reduction for the Village of Wellington through the use of our LD Technology membrane elements to reduce dP by 60% in the 2nd stage.

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