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## Hydranautics Awarded 39 MGD Ulu Pandan Plant

9,100 ESPA2+ Elements Choosen for Largest WateReuse Plant in Singapore

Oceanside, CA...Hydranautics, the global leader in membrane technology, was selected to provide 9,100 ESPA2+ elements for the 39 MGD (148,000 m3/d) secondary effluent wastewater plant on the island country of Singapore. Ulu Pandan is the fourth and largest NEWater project by the PUB (Public Utilities Board) that is designed to purify and reuse wastewater for industrial water applications. Hydranautics' elements have previously been selected for three of the four existing NEWater plants including the Bedok and Kranji Water Reclamation Plants. These two facilities represent 19 MGD (72,000 m3/d) of water recycling capacity and have proven the reliability and performance of Hydranautics' membrane technology for this difficult application.

The PUB's NEWater initiatives were established to help the country become more self-sufficient. Ulu Pandan was awarded to Keppel Seghers Engineering Singapore Pte Ltd., who was awarded a 20-year design-build-own-operate contract for the water recycling plant. Keppel Seghers in turn selected Hydranautics' ESPA2+ membrane elements for the reverse osmosis membrane treatment process. ESPA2+ was selected for its high productivity and high rejection as well as its proven track record treating municipal wastewaters.

Hydranautics' ESPA (Energy Savings Polyamide) membranes operate at significantly lower pressures than competiting RO elements, providing considerable energy and operating cost savings. The ultra-high, active area membrane ESPA2+ elements produce 12,000 GPD (gallons of water per element per day) (45.4 m3/d) at 99.6% nominal salt rejection (99.5% minimum). The high area ESPA2+ element offers the best combination of low pressure and high rejection of any brackish water element available on the market today.

Hydranautics and parent company Nitto Denko together form the industry leader for membrane development with a focus on unique surface coatings. The resulting membrane technology provides solutions for customer's most demanding water treatment needs. For more information about Hydranautics' ESPA membranes please call 1-800-CPA-PURE, visit us online at www.membranes.com or send an e-mail to info@hydranautics.com.