

Harrismith Services, Inc.

Founded in 2003, **Harrismith Services, Inc (HSI)** is a water technology consultancy specializing in desalination and other advanced treatment technologies. The principal, Charles (Chip) Harris, has combined practical and engineering experience totaling more than twenty-four years, and is recognized both nationally and internationally for his work in this field.

HSI can, in addition to the general expertise of the principal, call on the specialized expertise of a number of Associates, engineers and scientists with international reputations.

HSI has the capability of providing services for process selection, pre-design, design, and construction phase activities. Providing technical support for general contractors, equipment suppliers and equipment manufacturers is also part of the services.

HSI can also provide startup and acceptance test oversight and reporting, troubleshooting of existing facilities, retrofit and upgrade specification and oversight.

HSI has, through it's principal's previous associations and Associates, a long and successful history in desalination technology, both nationally and internationally.

SERVICES AVAILABLE

CONCEPTUAL, PRELIMINARY & FINAL DESIGN COMMENTARY
TECHNICAL FEASIBILITY STUDIES
ASSISTANCE WITH PRELIMINARY PLANS & SPECIFICATION
START-UP & ACCEPTANCE TEST SERVICES
OPERATIONAL CONSULTING & TROUBLESHOOTING
DESIGN REVIEW & VALUE ENGINEERING

TECHNOLOGIES & SYSTEMS

SEAWATER
BRACKISH GROUNDWATER
BRACKISH SURFACE WATER
MUNICIPAL WASTEWATER
INDUSTRIAL WASTEWATER
OTHER IMPAIRED WATERS

REVERSE OSMOSIS
NANOFILTRATION
MICRO & ULTRA FILTRATION
ION EXCHANGE

CHARLES (CHIP) HARRIS, III
PRESIDENT/COO

Mr. HARRIS's 24 years of water treatment experience is focused principally on applications of membrane technology. He has been involved in over 40 projects world wide, with assignments ranging from full plant design, construction, commissioning and operations. Many of these projects have been in successful operation for over 15 years, and Mr. Harris has in many cases been involved in multiple projects for the same owner.

Mr. Harris has worked with membrane-based systems since the mid 1970's. His initial experiences were followed by work with a membrane / ion exchange systems group in Texas, several years with membrane system OEM's such as Basic Technologies and Hydropro, Inc. of Florida, several years with Advanced Membrane Systems of Virginia and a good deal of time specializing in the processes of energy recovery for brackish and seawater membrane systems.

Mr. Harris is a member in good standing with the American Water Works Association (AWWA), American Membrane Technology Association (AMTA), International Desalination Association (IDA) and the Southeast Desalting Association (SEDA). He has authored and presented over 14 papers at international desalination symposiums since 1994.

ARCHITECT/ENGINEER ASSOCIATIONS

*CH2M - HILL
KIMLEY-HORN & ASSOCIATES
BLACK & VEATCH, INC.
CAMP, DRESSER AND McKEE
THOMAS & HUTTON ENGINEERING COMPANY
WATEK ENGINEERING CORPORATION
O'BRIEN AND GERE
TIMMONS ENGINEERING*

UTILITY CLIENTSTHROUGH PAST ASSOCIATIONS

*CITY OF CAPE CORAL, FLORIDA
COUNTY OF DARE, N. CAROLINA
TOWN OF JUPITER, FLORIDA
CITY OF FORT STOCKTON, TEXAS*

**SELECTION OF PROJECTS- CONSTRUCTION OVERSIGHT,
COMMISSIONING AND TRAINING**

MEMBRANE PROCESSES

*CITY OF BOYNTON BEACH - 6 MGD
TOWN OF JUPITER - 12 MGD
CITY OF CHESAPEAKE - 12 MGD
ISLE OF PALMS UTILITIES - 1.5 MGD
MARTIN COUNTY, FL - 4.5 MGD
INDIAN RIVER COUNTY, FL - 1.5 MGD*

SEA WATER RO

*SHARM EL SHEIKH, EGYPT - 1.5MGD
WALKERS CAY - .2 MGD
COUNTRY OF BELIZE - .06MGD
HOH CANARIAS - .08MGD
US DEPARTMENT OF STATE - .02MGD
ENERGY RECOVERY, INC. - .02MGD*

HSI also maintains working relationships with several accomplished specialists, from both the private sector and academia, whose knowledge and experience may from time to time be required for specific assignments. Some of the special skills that may be required from time to time are:

- Instrumentation and control systems
- Electrical Engineering
- Civil Engineering
- Membrane filtration systems
- Conventional water treatment processes
- Thermal desalination processes
- Process and Water Chemistry
- Computer assisted design and drafting
- Analytical Services

For further information, please contact:

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