Ballast Water Treatment Systems

Introducing a partnership between Trojan Technologies and GEA Westfalia Separator, global leaders in their respective fields of ultraviolet disinfection and separation technology, that addresses current challenges in the emerging market.

- Unique patented design combines UV and filtration in one unit
- Trojan Marinex filter system designed specifically for ballast water treatment (not “off-the-shelf” land-based filter design)
- Increased overall surface area compared to similar filters
- Minimal impact to treatment flowrate during backwash operation

The GEA Westfalia Separator BallastMaster Marinex, powered by Trojan Marinex, is best positioned to be one of the first to achieve USCG type approval with current AMS approval for fresh, brackish and marine water.

Systems are available in a large range of capacities from 150 – 1500 m³/hr with higher capacities achievable by placing multiple units in parallel.
Trojan Technologies is the leading global supplier of UV disinfection systems for municipal, industrial, and consumer applications with over 8,800 municipal UV installations on six continents, treating over 50 billion gallons/day. Trojan Marinex is a Trojan Technologies business dedicated to the development, sale and support of ballast water treatment solutions.

GEA Westfalia Separator is the leading company in the world in the field of mechanical separation. With the efficient processing of liquids and liquid mixtures, this technology ensures considerable added value: More quality of life for mankind. More sustainability for the earth. More efficiency for your company.

Proprietary Solo Lamp Technology provides:

- 50% lower power draw compared to other filtration + UV systems
- Combines the best features of low-pressure and medium-pressure lamp technologies (enabling high electrical efficiency and reduced lamp count)
- Long lamp life
- Lower lamp operating temperatures minimizes sleeve fouling potential

At the forefront of the USCG type approval pipeline

- Testing was conducted in accordance with United States Environmental Protection Agency (USEPA) Environmental Technology Verification (ETV) Ballast Water Protocol
- The ETV protocol is a key testing requirement for systems to obtain USCG type approval
- BallastMaster Marinex, powered by Trojan Marinex, was tested under very challenging water quality conditions (low UV transmittance)