



January 11th, 2017

Head of Branch
UNEP Chemicals Branch DTIE
11-13, chemin des Anémones
CH-1219 Châtelaine Geneva, Switzerland

Participation in the UNEP Global Mercury Partnership:

Dear Madam or Sir,

Herewith we are applying to become a partner of the UNEP Global Mercury Partnership (areas 'Mercury Releases from Coal Combustion' and 'Mercury Releases from the Cement Industry'). We are pleased to submit the enclosed application form.

W. L. Gore & Associates is a worldwide organization with more than 10,000 associates working in 50 facilities plants. By fostering creativity and innovation, the Gore organizational style directly contributes to its product success. GORE® expanded PTFE, has been configured into hundreds of diverse products, ranging from high performance fabrics and electronic products to medical implants, industrial sealants, and filters.

As a world leader in the application and use of fluoropolymers, Gore continually invests in extensive research and development to find new combinations of materials that extend the performance range of basic polymers. Gore pioneered the use of PTFE membranes in filtration and other separation technologies.

We have evolved our Filtration Products Group into one of the largest and most technically competent in the industry. Our technical expertise and engineering capability enable us to understand entire filtration systems and related processes. Our Field Sales, Inside Sales and Product Specialists are all industry experts in air pollution control applications knowledgeable and dedicated to knowing the systems and business requirements of this industry, operating effectively as a team to quickly meet our customers' needs.

W. L. GORE & ASSOCIATES, INC.

PERFORMANCE SOLUTIONS DIVISION
101 LEWISVILLE ROAD
FAIRHILL, MD, 21921
TEL 410-392-3300

gore.com

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We have developed a patented technology for reducing mercury air emissions in Power, Steel, Cement, Incineration, and other combustion applications. The GORE® Mercury Control System (GMCS) is a stationary or fixed-bed sorbent technology designed to reduce mercury concentrations in industrial flue gas streams. At the heart of the GMCS is a series of stacks of low pressure drop Modules placed directly in the flue gas, which efficiently remove elemental and oxidized mercury. These Modules are able to capture mercury for long periods of time without requiring regeneration and with minimal maintenance requirements.

The GORE® Mercury Control System (GMCS) is based on a novel, fluoropolymer-based Sorbent Polymer Composite (SPC). Mercury is strongly bound within the SPC which has a high capacity for mercury storage allowing for long life without the need for regeneration. The SPC can operate even in very wet gas streams, making it ideal for location above the mist eliminators in a wet FGD system. The removal of SO₂ is a co-benefit as it is converted to sulfuric acid which is expelled out of the hydrophobic SPC material.

Operation is passive. There are no moving parts and adjustments are not needed to maintain performance as unit operations change. The GMCS is modular in design with the SPC material arranged in open channels for low pressure drop. The modules can be stacked in the direction of gas flow to achieve the desired mercury removal efficiency. The hydrophobic nature of the SPC material allows SO₂ conversion to sulfuric acid which is expelled to the material's outer surface into the absorber vessel below. For plants that do not have wet FGDs installed, this technology can be applied after a dry scrubber, or even as a stand-alone solution for mercury and SO_x.

As partners in the UNEP Global Mercury Partnership we are offering this innovative but simple to apply technology as well as our expertise and technical knowledge.

We are looking forward to your reply. Please feel free to ask for additional information.

Yours Sincerely,

Mark de Garbolewski
Tel: 1-410-506-5513
Fax: 1-410-398-6624
Email: mdegarbo@wlgore.com

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CHEMICALS BRANCH
DIVISION OF TECHNOLOGY, INDUSTRY AND ECONOMICS
UNITED NATIONS ENVIRONMENT PROGRAMME

UNEP GLOBAL MERCURY PARTNERSHIP INFORMATION ON BECOMING A PARTNER

PARTNERSHIP AREA

Please check the partnership areas to which your organization intends to contribute to:

- artisanal and small scale gold mining
- mercury cell chlor alkali production
- mercury air transport and fate research
- mercury in products
- mercury releases from coal combustion
- mercury waste management
- mercury supply and storage mercury supply and storage
- mercury releases from the cement industry

Please indicate in your support letter how your organization intends to contribute to each of the indicated partnership areas.

ORGANIZATION NAME

W.L. Gore & Associates

NAME, FUNCTIONAL TITLE OF REPRESENTATIVE

Mark de Garbolewski, Gore (R) Mercury Control Systems Business Develo

ADDRESS OF ORGANIZATION

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TEL. No.

+ 1 410-506-5513

EMAIL

mdegarbo@wlgore.com

FAX No.

+ 1 410-398-6624

WEBSITE/URL

www.gore.com/mercury

TYPE OF ORGANIZATION

- Government
- Regional economic integration organization
- Non-government Organization
- Industry
- Scientific community
- Other, please specify:

*UNEP Global Mercury Partnership Registration Forms are to be accompanied by a letter to UNEP signifying support for the UNEP Global Mercury Partnership and commitment to achieving the partnership goal. The support letter should specify how the organization intends to contribute to meeting the goal of the UNEP Global Mercury Partnership. Please submit the support letter and registration form to:

Head of Branch - UNEP Chemicals Branch DTIE
11-13, chemin des Anémones - CH-1219 Châtelaine - Geneva, Switzerland
E-mail: metals.chemicals@unep.org

