



US Patent Office Issues Patent to Perma-Fix for Microporous Composite Material and its Applications

Solidifies IP portfolio related to production of Technetium-99m for medical diagnostic procedures through non-uranium process

Atlanta, Georgia and Warsaw, Poland – January 5, 2014 – Perma-Fix Medical S.A. (WAR: PFM), a subsidiary of Perma-Fix Environmental Services, Inc., a Nasdaq listed company, and developer of a reliable, cost effective, non-uranium process to produce technetium-99 (Tc-99m), the most widely used medical isotope in the world, today announced that it has been granted a patent for its Microporous Composite Material and its applications. This patent follows a notice of allowance issued in mid-August 2014 by the US Patent Office to Perma-Fix Environmental Services, Inc., allowing all claims in its patent application. Perma-Fix Medical has a Patent License Agreement with Perma-Fix Environmental Services, for the production of Tc-99m.

Dr. Louis F. Centofanti, of Perma-Fix Medical, commented, "We have crossed an important threshold with the issuance of this patent that not only protects our intellectual property, but enables us to move forward unencumbered with our mission of solving the global supply chain issues related to Tc-99m. Our process enables production of this essential medical isotope for diagnostic imaging procedures in a way that is cost-effective and does not require the use of uranium."

The claim of the patent addresses the proprietary resin that Perma-Fix manufactures and includes:

- Selective separation of Tc-99m pertechnetate from Mo-99
- Enhanced sorption of Mo with a holding capacity in excess of 60% of the dry weight of the sorbent
- Sorbent and generator resistant to degradation by gamma and beta radiation and acid environments
- Sorption of selective isotopes from radioactive waste streams
- Removal of heavy metals, such as mercury and arsenic, from waste water streams

About Perma-Fix Medical S.A.

Perma-Fix Medical was formed to develop, obtain FDA and other regulatory approval and commercialize a new process to produce Technetium-99 (Tc-99m), the most widely used medical isotope in the world. The new process is expected to solve worldwide shortages of Tc-99m as it is less expensive, does not require the use of government-subsidized, weapons-grade materials and can be easily deployed around the world using standard research and commercial reactors, thereby eliminating the need for special purpose reactors.

Please visit us on the World Wide Web at <http://www.medical-isotope.com>.

About Perma-Fix Environmental Services

Perma-Fix Environmental Services, Inc. is a nuclear services company and leading provider of nuclear and mixed waste management services. The Company's nuclear waste services include management and treatment of radioactive and mixed waste for hospitals, research labs and institutions, federal agencies, including the DOE, the Department of Defense ("DOD"), and the commercial nuclear industry. The Company's nuclear services group provides project management, waste management, environmental restoration, decontamination and decommissioning, new build construction, and radiological protection, safety and industrial hygiene capability to our clients. The Company operates four nuclear waste treatment facilities and provides nuclear services at DOE, DOD, and commercial facilities, nationwide.

Please visit us on the World Wide Web at <http://www.perma-fix.com>.

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