



Perma-SortSM

Environmental Sorting Technology



Bulk Material Segregation System

Perma-Fix has constructed Perma-SortSM, the newest automated radiological characterization and segregation system for bulk materials. Drawing on our staff of nuclear engineers and certified health physicists (CHPs) with more than 20 years of soil sorting experience, Perma-Fix built a customized conveyor-based radiological assay system designed to provide 100% characterization of material efficiently and with industry-leading measurement quality. Our system offers management of end-point uncertainty in regards to the characterization of material exceeding the site acceptance criteria for transportation, disposal offsite and material meeting the site unrestricted release criteria.

How It Works:

Materials are loaded into a large feed hopper and then transported through the system with an electronically controlled conveyor “survey” belt. While on the survey belt, the material is analyzed and tracked. At the end of the survey belt the material is transferred to a short reversing conveyor that spins in one direction for below criteria material and in the opposite direction for above criteria material. The reversing conveyor transfers materials to standard stacking conveyors which can then create piles of material or transfer directly to trucks or waste containers.

Network Systems:

Perma-SortSM includes 4 key systems that are monitored and controlled by a network based software platform: Radiation Detection System, Conveyor System, Material (including density/mass) System, and Data Management/Reporting System. The system is network based so monitoring and control can be executed from multiple areas on the project site (command center, mobile device, project management trailer, etc.). If desired, the system could be made available to stakeholders on a private network connection.

Capabilities:

- Simple and rapid mobilization and setup,
- Material output can be discharged into virtually any container size or managed with takeaway conveyors,
- Material is processed with minimal effluent and noise emissions,
- The software supports multiple material profiles for varying bulk material types,
- Waste management including debris and soil sorting/segregation, transportation, profiling, inventorying, and manifesting for disposal,
- Health and safety constraints exceed standards.

CONTACT US

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