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Radioactive Waste Solidification Case Study

Application:

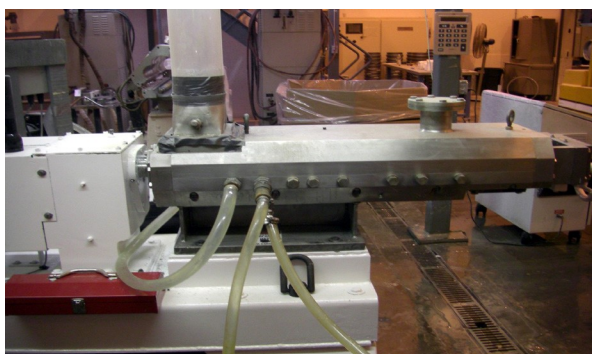
Continuously mix **radioactive waste** with cementitious binder material for the purpose of radioactive waste **solidification**.

Challenge:

Continuously generate a **highly accurate** homogeneous mixture with a constant ratio of components, and **maintain** a constant temperature.

Process Conditions:

Cement dry powder pre-blend	60%
Water—Stream 1	20%
Water—Stream 2	20%
Jacket Temperature	Ambient
Shaft Speed	232 rpm variable



Solution:

Utilizing the Readco Pilot Plant allowed Readco lab technicians to mimic production conditions on a smaller machine while still producing results with the **desired outcome**. The **accurate** calibration of feed pumps along with **adjustable** paddle arrangements resulted in an **increase** in throughput of roughly 33%.

Benefits:

In addition to **maximum throughput**, the Continuous Processor offers a highly reliable continuous method of mixing cementitious materials with **minimal time** and material invested in cleanup/maintenance. The closed mixing chamber reduces the amount of material dusting when compared to most other types of mixers.

Continuous Processor—CP

Features and Benefits:

Customized Paddle Arrangement
Shorter Cycle Time
Fewer Process Steps
Less Waste
Product Consistency