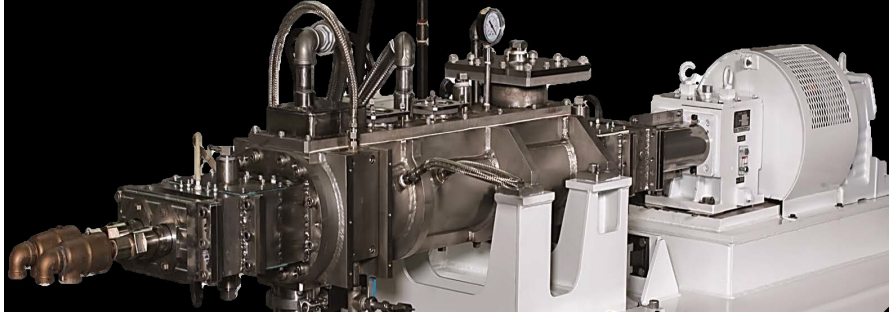




550 N. STATE STREET
YORK, PA 17403 USA
Phone 717-848-2801
www.readco.com



Radioactive Waste Moisture Removal Case Study

Application:

Continuously remove moisture from radioactive waste slurry for the purpose of storage and disposal.

Challenge:

Reduce the moisture content slurry from 89% to 0.1% using applied heat and vacuum pressure.

Process Conditions:

Contaminated Water	89%
Solids Content	11%
Jacket Temperature	460°F
Shaft Temperature	400°F
Shaft Speed	45-50 rpm variable
Vacuum	25-28 inHg variable



Solution:

Long retention time, applied heat, and vacuum removes significant amounts of moisture. Cored shafts in conjunction with jacketed barrels allow for **even and efficient heat transfer**. Concurrent **vacuum and evaporation** remove the moisture from the super heated liquid slurry.

Benefits:

The **volatiles removed** in vapor form are pulled through a completely **enclosed system** where they can be **condensed and possibly reclaimed**. The self-cleaning twin counter rotating shafts significantly reduce the amount of residual material remaining in the machine after turning off the input feeds to the Processor.

SC Processor—SCP

Features and Benefits:

Constant Vacuum

Less Equipment

Uniform Heat Transfer

Self-Wiping Flights

Lower Energy Consumption