64447.3 Best Available Technologies (BATs) - Radionuclides

The technologies listed in tables 64447.3-A, B and C are the best available technology, treatment technologies, or other means available for achieving compliance with the MCLs for radionuclides in tables 64442 and 64443.

The regeneration solution contains high concentrations of the contaminant ions, which could result in disposal issues.

When point of use devices are used for compliance, programs for long-term operation, maintenance, and monitoring shall be provided by systems to ensure proper performance.

Reject water disposal may be an issue.

The combination of variable source water quality and the complexity of the water chemistry involved may make this technology too complex for small systems.

Removal efficiencies can vary depending on water quality.

Since the process requires static mixing, detention basins, and filtration, this technology is most applicable to systems with sufficiently high sulfate levels that already have a suitable filtration treatment train in place.

Applies to ionized radionuclides only.

This technology is most applicable to small systems with filtration already in place. Chemical handling during regeneration and pH adjustment may be too difficult for small systems without an operator trained in these procedures.

This would involve modification to a coagulation/filtration process already in place.