

TRITIUM RECYCLING

NSSI is able to process all types of Tritiated Waste. All reclaimed Tritium is recycled and used in research laboratories. NSSI offers the best alternative to ground disposal.

TRITIATED WASTE TYPES

MIXED WASTE

- Organic Liquids
- Aqueous Liquids
- Organic Gases
- Flammable Gases

METALS

- Mercury, Gallium
- Titanium Foils
- Scandium, Nickel
- Saline Hydrides

CAPTURE BEDS

- Driers
- Uranium Getter
- Zirc-Iron Getter

WATER

- Light (H₂O)
- Heavy (D₂O)

METAL HANDLING SYSTEM

Decontaminate all metalsStabilize hydride formers

BED UNLOADING GLOVEBOX

- 99.99% capture
- Process driers & hydride formers

MIXED WASTE COMBUSTION UNIT

- Destroys all EPA codes to 99.9999% efficiency
- 99.99% tritium captured

ELECTROLYZER

- 7 m³/day of Hydrogen
- 99.9% capture from O₂ stream
- LPCE Concentrator attachment
- Up to 10 Ci/kg Tritium activity

ISOTOPIC SEPARATION

- Enrich to 5% Tritium gas
- 1µCi/m³ raffinate
- Prepare gas for recycle

RECYCLE TRITIUM TO RESEARCH LABS

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