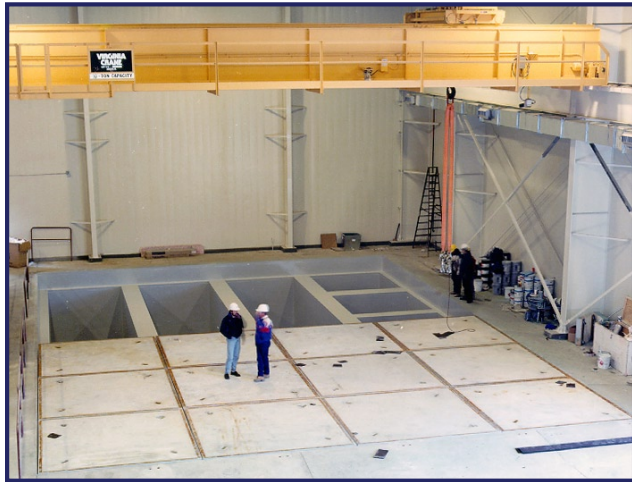


■ ENGINEERING ■ ARCHITECTURE ■ DESIGN-BUILD ■ GEOSPATIAL SOLUTIONS ■ SURVEYING



Merrick & Company provided Title I, II, and III design services to Brookhaven National Laboratory for a 18-acre Waste Management Facility (WMF) designed to handle radioactive, RCRA (Resource Conservation and Recovery Act), and mixed wastes. This five-building complex included treatment and storage capability encompassing shielding storage; decontamination systems; volume reduction through shredding and compaction; waste solidification; lead smelting; incineration of certain waste streams; and hot cell capability for repacking, transfer, and storage of highly activated wastes.

The project was designed and constructed in a phased approach to accommodate line-item funding obligations and RCRA permitting constraints. Merrick's responsibilities included all site, facility, process, and equipment design in addition to safety analysis preparation and permitting support.



The new WMF replaced the existing hazardous waste management area in its entirety and consolidated several waste management operations into functional buildings designed to ensure regulatory compliance.

The purpose of this WMF was to receive, handle, repackage as necessary, and temporarily store RCRA wastes, mixed wastes, and solid radioactive wastes generated by users and operations at BNL. Aqueous radioactive waste was stored and concentrated at a facility separate from the WMF. Evaporator bottoms from the concentrating process were then transferred to the WMF. All wastes received at the WMF were segregated, sorted, repacked, and then temporarily stored prior to shipment and disposal offsite at DOE or commercial disposal facilities.

