

High-Level Waste Standardized Bogies

MCE was contracted by Bechtel National, Inc. to design, fabricate, and test standardized bogies (four-wheeled trolleys that travel on a crane rails) and associated equipment for the Waste Treatment and Immobilization Plant High-Level Waste (HLW) Facility at Hanford. The bogies provided include: canister import bogie, pour tunnel primary bogie, canister storage transfer bogie, cask-handling bogie, drum transfer bogie, and cask transfer bogie.

Associated equipment provided includes:

- Drive systems, including a specialized push/pull chain drive for bogies that operate in extremely harsh environments.
- Equipment needed to recover a failed bogie to a safe work area without the need for personnel to enter a radiological/contamination zone.
- Electrification and control components, including cable reels, festoons, control panels, and proximity and limit switches.
- Installation/maintenance equipment and tools.

The bogies will be used in several different areas inside the HLW Facility to transport radioactive material containers from one location to another during process activities. Each bogie has the ability to leave its radioactive process area and enter an adjoining room for maintenance purposes, or be maintained in position.



Several of the bogies include special stainless steel crane rails. These rails are constructed using 300 series stainless steel. A total of over 1,100 linear feet of this rail is required.



**Client: Bechtel National, Inc.
Richland, Washington**