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# JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

## ENVIRONMENT, HEALTH & SAFETY – RADIOACTIVE WASTE SECURING LOADED 55-GALLON DRUMS

TASK	HAZARDS	CONTROLS
1. Loading the drum onto a four-wheeled drum handler.	Pinch from the hand truck chime hook.	See “Moving A Loaded 55-Gallon Drum” JSA. Refer to 1a-1.
	Back strain from the tilt.	See “Moving A Loaded 55-Gallon Drum” JSA.
2. Preparing the lift gate for use.	Pinch, falling items, and back injury.	See “Operating A Lift Gate” JSA.
3. Preparing the Dock Leveler for use.	Pinch, fall, falling items, and crushing feet.	See “Dock Leveler” JSA.
4. Moving the drum.	Back and muscle strain.	See “Moving A Loaded 55-Gallon Drum” JSA. See “Moving Empty Drums” JSA.
5. Putting the drum down on the bed of the truck.	Back/muscle strain, and impact injury.	Position your body to use your weight and the leverage of the hand truck to tilt the drum. Make sure the bottom of the drum is as close to the axel of the wheels as possible.
	Foot injury from the drum landing on foot.	Keep your foot behind the wheels at all times. Wear steel-toed shoes.

		Falling.	Position the drum toward the interior of the truck and be careful to have enough room to maneuver away from the edge of the lift gate to drop the drum onto the desired location and to move away safely.
6. Removing the hand truck from the drum.		Back and muscle strain during the removal of the hand truck from under the drum.	Lean into the top of the hand truck to slightly tip the drum so the hand truck slides out from under the drum (your weight and leverage).
		Pinch from the hand truck chime hook.	Grab the chime hook only from the top while releasing the chime hook.  Wear leather or similar gloves.
7. Securing drum to the truck.		Pinch from strapping and load-locks.	Secure the drum with strapping. Be sure to properly anchor the drum to the siding with proper use of interweave and spring mechanism. Load locks can also be used.
		Trip on equipment and fall from adjusting strapping.	Use caution when weaving and securing anchoring straps and load devices so as not to strain or fall while securing drums.
	<b>Required Training:</b> 1. Use of the Drum Handler. 2. Hazards associated with drum contents.	<b>Required Personal Protective Equipment (PPE)</b> Lab coat or tyvek, leather or similar gloves, safety glasses, steel-toed shoes	
<b>Other Information:</b>	See “Moving A Loaded 55-Gallon Drum” JSA, “Operating A Lift Gate” JSA, “Dock Leveler” JSA, and “Moving Empty Drums” JSA.		
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