

Job Safety Analysis	Job/Task: Bulkhead Door (Shipping)	Date: January 31, 2005
New <input checked="" type="checkbox"/> Revised _____		
Dept/Line: Shipping (Rail)	Page <u>1</u> of <u>4</u>	Analysis by: James M. Stewart
Instructor Signature:		Reviewed by:
Employee Signature:		Approved by:

Required and/or recommended personal protective equipment (PPE): steel-toed safety boots, hearing protection, leather gloves, safety glasses

Step #	Sequence of basic job steps	Potential safety hazards	Potential ergonomics hazards	Recommended action/procedure
1	Upon entry to the rail car, inspect plug door rail and door for defects	Plug door can come dislodged	Push/pull hazard if plug door does not operate correctly	Inspect plug door as per established procedure
2	Inspect overhead rails for bulkhead doors and ensure that safety cable(s) is/are in place	Bulkhead door can become dislodged and fall on employee Bottom of bulkhead door can swing inertially if top is jammed, causing foot crush hazard	Bulkhead door can become jammed, causing push/pull hazard	Ensure that safety cable(s) is/are in place, rail is level and door appears to be in good operating condition Keep feet clear of space between bottom of bulkhead door and railcar floor
3	Inspect door condition, check handle and pin setting for smooth operation and ensure that the handle(s) is/are disengaged in a safe manner	Handle(s) on bulkhead doors can release suddenly due to excessive force on door, causing hand injury Handle recess can cause hand injuries due to striking the sides Door can become dislodged if all overhead and floor pins are not properly engaged, causing foot or crushing injury	Excessive force may be required to dislodge handle if it is under excessive pressure Door can shift suddenly if pins are not properly engaged, causing doors to move with excessive force Door movement, compounded by excessive weight/force can cause employee to use awkward posture to control door	Ensure that door operates smoothly Ensure that all pins engage within the appropriate cogs and/or slots Be aware of movement of the door and its weight, adopting a posture that does not allow excessive strain to the back Keep hands and feet clear of all hazards Use the palm of your hand to engage/disengage door handle and stand to side

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4	Position bulkhead door to short end of the rail car or where appropriate in order to load product and lock into place	<p>Door can swing on overhead rails causing crushing or striking injury</p> <p>Door movement can cause crushing foot injury</p> <p>Door can become dislodged, falling on employee</p> <p>Door pins fail to engage</p>	<p>Inertia of moving bulkhead door can cause excessive forces with pushing/pulling</p> <p>Door position and manipulation can cause awkward posture and excessive biomechanical force in order to control during door movement</p>	<p>Use caution when repositioning bulkhead door</p> <p>Use proper posture and be prepared for sudden, forceful movement/swinging of the door when moving</p> <p>Keep hands and feet clear of danger areas</p> <p>Be aware of where you are in relationship between the moving bulkhead door and the railcar walls, plug doors or product</p> <p>Reposition the bulkhead door as smoothly and safely as possible</p> <p>If experiencing any difficulty repositioning the door, seek assistance from other employees</p> <p>Ensure that all bulkhead door pins engage, shaking or using a pry bar if necessary</p>

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5	Load product into railcar, positioning bulkhead doors as necessary	<p>Be aware of crush and striking hazard due to pullpak entry into, and exit from the railcar while loading product</p> <p>Be aware of crush and striking hazard potential due to improperly palletized product</p> <p>Be aware of trip hazards due to wet or slippery floor</p>	Lifting, push or pull hazard may be present if repositioning product in railcar	<p>Be aware of surrounding environment at all times</p> <p>Stay clear of all pullpak traffic and remain outside of the railcar when the pullpak is inside</p> <p>Seek assistance whenever lifting is required</p>
6	Position bulkhead door in place behind first and subsequent loads	Same as step #4	Same as step #4	Same as step #4
7	Insert airbag whenever two bulkhead doors are so close to one another that loader or shipper cannot operate bulkhead handles so as to lock bulkhead doors into place	Over-pressurization of air bag, leading to crushing injury or air bag rupture	Awkward postures associated with inserting, positioning and filling the air bag in a confined area between two bulkhead doors	<p>Use appropriate procedure for airbag inflation and do not over-inflate</p> <p>Use appropriate PPE</p> <p>Use caution when filling airbag, keeping body parts out of the way and maintaining a good posture</p>

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8	Air doors (only two-gauge configured bulkhead doors) and fill airbag reservoir	<p>Ensure that you air only doors that have 2 gauge configuration</p> <p>Compressed air can cause hose to strike body or kick up eye irritants</p>	Compressed air can cause chilling of hands	<p>Use appropriate PPE when airing the proper bulkhead doors and air bag reservoir</p> <p>Air only the appropriate doors</p> <p>Air the air bag reservoir to 3 - 3 1/2 psi pressure and reservoir to 80 psi pressure</p>

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