

JOB HAZARD ANALYSIS (JHA): Ice Age National Scenic Trail

Heavy Equipment: IATR-11

Analysis By: Daniel W. Watson, VIP Coordinator

Approved By: Eric Gabriel, Superintendent

Required Personal Protective Equipment (PPE): ANSI-Approved Eye, Hearing Protection, Hard Hat; Gloves; Safety Boots; Long Pants

Sequence of Job Steps.	Potential Hazards/ Injury Sources.	Safe Action or Procedure.
<p style="text-align: center;">Training/Certification</p>	<p style="text-align: center;">Unauthorized Use</p>	<p>All operators must have an initial competency training to include review of owner’s manual, orientation to the machinery and safe operating procedures, and hands-on instruction. Training must be performed by Experienced Operators. The operator must have documented refresher training every three years for each type of heavy equipment being used.</p> <p>Operators sign documentation that they have read owner’s manual and JHA, and have received instruction from an Experienced Operator. Documentation record is saved per park procedures (Teams files).</p> <p>Operate by trained/certified personnel only.</p>

Sequence of Job Steps.	Potential Hazards/ Injury Sources.	Safe Action or Procedure.
PPE and Appropriate Clothing	<p>Lacerations, pinches, burns to hands.</p> <p>Eye injuries.</p> <p>Hearing loss.</p> <p>Crushing injuries or loss of control of machine.</p>	<p>Wear gloves.</p> <p>Wear eye protection.</p> <p>Wear hearing protection.</p> <p>Do not wear loose clothing that can catch in controls or in moving parts.</p>
Equipment Check & Safety Inspection	Personal Injury or Property Damage	<p>Review and follow manufacturer's Operating Steps & Safety Practices.</p> <p>Complete walk-around to inspect for leaks, broken welds, cracked or loose hoses, missing bolts, tire wear, belt condition, hydraulic and other fluid levels.</p>
Work Area Preparations	<p>Contact with other people.</p> <p>Contact with hazardous obstacles.</p>	<p>Mark off work area. Enlist help from others in Hi-Viz clothing to maintain control of work area.</p> <p>Mark stumps, holes, other obstacles.</p> <p>Locate and mark underground obstacles (power cables, plumbing, etc.).</p> <p>Maintain 20-foot clearance with overheads powerlines.</p>

Sequence of Job Steps.	Potential Hazards/ Injury Sources.	Safe Action or Procedure.
Entering & Exiting Equipment	Slips, trips, falls	<p>Clean foot and/or handholds of dirt, mud, etc.</p> <p>Maintain 3 points of contact for mounting/dismounting.</p> <p>No riders or passengers.</p>
Performing Tasks	<p>Personal Injury or Property Damage.</p> <p>Tip over due to uneven terrain, potholes, loaded bucket, unbalanced load, or traveling on slopes.</p>	<p>Be aware of stumps or other debris protruding from the ground. Do not make abrupt changes to travel speed or direction; use slow, deliberate motion in controls to ensure stable maneuvers.</p> <p>Travel up and down slopes, not across slopes. Keep loaded bucket low during travel. Ensure load is balanced properly.</p> <p>When traveling on steep grades or severe slopes, position loads with the heavy-end uphill.</p>
Conversing with co-workers or site visitors	Personal Injury or Property Damage	<p>Bring machine to complete stop.</p> <p>Lower load or attachments to ground.</p> <p>Apply parking brake, shut engine OFF.</p> <p>Dismount if needed to avoid others touching or climbing on machine.</p>

Sequence of Job Steps.	Potential Hazards/ Injury Sources.	Safe Action or Procedure.
Equipment Maintenance	Personal Injury or Property Damage	Routine maintenance shall be performed per manufacturer's owners/operator's manual. Move loader to safe maintenance location. Shut engine OFF, remove key and allow engine to adequately cool down.