

<p><b>United States Department of Interior NATIONAL PARK SERVICE</b> Prince William Forest Park PATC Spooky Beavers</p>	<p align="center"><b>JOB HAZARD ANALYSIS (JHA)</b></p> <p align="center">See block 8a for PPE</p>	<p><b>Work Project/Activity:</b></p> <p><b>CHAINSAW OPERATION</b> for downed trees</p> <p>Reviewed/Approved By: Kathy Kimmitz/Mark Ellis (PATC), 2/21/2019</p>
<p><b>Tasks/Procedures</b></p>	<p><b>Potential Hazards</b></p>	<p><b>Safety Control Factors</b></p>
<p>Chainsaw Operation a. General</p>	<p>1. Injury due to inexperience.</p>	<p>1a. All operators must have completed chainsaw safety &amp; operation training 1b. Sawyers and swampers should ensure a safety zone is set-up and escape route/plan is evident. (Look-out and Communication) Swampers should not remove any cut logs until the direction is given by sawyer.</p>
	<p>2. Injury to operator during start-up.</p>	<p>2a. Always start chainsaw using proper starting procedure (with saw placed between legs or on the ground) 2b. Drop starting a chainsaw is prohibited. 2c. Maintain 10 foot clearance from other persons when starting.</p>
	<p>3. Injury resulting from chainsaw or debris contacting body part.</p>	<p>3a. Operator shall wear all PPE required for specific chainsaw operations. 3b. Operation shall position his/her body out of the pathway of the chainsaw. 3c. Operator shall engage the chain brake whenever his/her finger is removed from the throttle. (brake should be operational) 3d. Operator shall have two hands on chainsaw at all times during operation. 3e. Keep a line distance of 10 feet from electrical conductors. 3f. Always carry chainsaw by your side with the saw on the downhill with the chain bar facing to the rear or in chainsaw backpack.</p>
	<p>4. Hearing Loss due to prolonged exposure to loud noise.</p>	<p>4a. Operator shall wear OSHA/ANSI approved <i>hearing protection</i> at all times while operating chainsaw.</p>
	<p>5. Fire hazards from fuel spills, refueling a chainsaw while hot, or defective spark arrestor.</p>	<p>5a. Re-fuel chainsaw in designated fueling area only. (10 feet away) Use absorbent cloth under saw when refueling. 5b. Re-fuel only when chainsaw is cool. ( 5 minute minimum) 5c. Check spark arrestor routinely. Replace if needed.</p>
	<p>6. No/delayed medical treatment in the event of an emergency.</p>	<p>6a. Never operate a chainsaw alone. 2 persons must always be present. 6b. Always have a means of communication and a first aid kit that is adequate for the operations you are performing. (trauma and blood-stopper kit) A portable radio should be checked-out from the park Visitor Center prior to chainsaw operations.</p>
	<p>7. Operator fatigue and or heat exhaustion/heat stroke.</p>	<p>7a. Use proper body positioning while operating a chainsaw. 7b. Drink plenty of fluids – keep hydrated. 7c. Maintain situational awareness at all times.</p>
<p>Chainsaw operation a. Ground Operations</p>	<p>8. Injury resulting from chainsaw or debris contacting body part.</p>	<p>8a. Operator shall wear all PPE required for ground chainsaw operations.</p> <ul style="list-style-type: none"> <li>- <i>hard hat</i></li> <li>- <i>safety glasses</i></li> <li>- <i>hearing protection</i></li> <li>- <i>chainsaw chaps or chainsaw pants</i></li> <li>- <i>face shield</i></li> <li>- <i>steel-toed boots</i></li> <li>- <i>sturdy work gloves</i></li> <li>- <i>hi-viz safety vest if near roadways</i></li> </ul>
	<p>9. Injury resulting from slips, trips, or falls or being struck by tree/limb/debris.</p>	<p>9a. Keep work area clear of debris. 9b. Be aware of terrain in work zone. 9c. Always stay alert to weather conditions (lightning, high winds, obscured visibility, heavy rains, inclement weather) <b>Minimize operations or stop if conditions are present.</b></p>
	<p>10. Injury from log rolling downhill.</p>	<p>10a. Always operate chainsaw uphill from log (working on).</p>
<p>Chainsaw operation</p>	<p>11. Injury/log kicking back on downed trees</p>	<p>11a. Perform risk analysis prior to cutting and downed trees/logs. <b>SITUATIONAL AWARENESS.</b></p>

