



JOB HAZARD ANALYSIS

ACTIVITY: Prescribed Fire
(Certification of Hazard Assessment – 29 CFR 1910.133)
U.S. FISH AND WILDLIFE SERVICE

STATION: Valley City Wetland Management District

DATE: 12-15-09

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CERTIFIED BY: Jeff Dion

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:

- X Eyes/Face Eye Protection
- X Foot Leather Boots
- X Hand Leather Gloves
- X Head Hard Hat
- X Leg Nomex Pants
- X Body Nomex Shirt
- X Ear Ear Protection
- X Other Fire Shelter

QUALIFICATIONS, EXPERIENCE, OR TRAINING REQUIRED:

Experience with water pump and roll operations with a Type 6 Engine.
 Experience firing with a hand held drip torch.

BASIC JOB STEPS

HAZARDS

SAFE JOB PROCEDURE

Break work down to basic elements (such as remove, lift, carry, stop, start, apply, return, squeeze, weld, saw, walk, hold, grind, place, etc.). Describe what is done, not how it is done.

For each job step, state what accident could occur and/or what hazard is present. To determine this, ask yourself: Can the person fall; overexert; be exposed to burns, fumes, rays, gas, etc.; hit against; be struck by; in contact with; be caught in, on, or between?

State how each element of work should be performed to prevent the accident or avoid the hazard. What should the person do or not do? Be specific. What precautions should be taken? Ask yourself: What can I do to eliminate, modify, guard, identify, or protect against the potential hazard or accident, including such things as how the worker stands, holds, uses, carries, dresses, etc.?

*Travel to, from and on Project.

Motor vehicle accidents
 Slippery road surfaces, soft shoulders, unimproved and narrow roadways.
 Dusty road conditions
 Weather
 Darkness, smoke.

Driving Defensively. Use seat belts. Identify road conditions during briefings. Post Road Guards. Mark hazards. Use Headlights. Perform pre-use inspections on equipment. Scout roads and identify turnouts before ignition of project. Maintain communications. Provide road system map for project. Use Backers and chock vehicle tires. Have vehicles facing out. Driving engines off refuge trails should be avoided as areas may be wet causing vehicles to get stuck.

*Briefing

Lack of communications

Provide project briefing before burning will clarify firing order, organization responsibilities, communications, hazards, weather, and expected fire behavior.

BASIC JOB STEPS	HAZARDS	SAFE JOB PROCEDURE
*Qualifications For assigned Position	Lack of Experience Injuries	Workers recruited for burn assignments shall meet age,health, and physical requirements established for regular firefighting duties. Also meet Prescribed Burn qualifications.
*Protective Clothing and equipment	Injuries,burns and death	Wear Hard hat with chin strap, safety glasses, Nomex Fire resistant pants and shirts NFPA 1977 compliant. Keep sleeves rolled down. Wear leather, lace type, boots with skid resistant soles, and tops at least 8 inches high. Carry drinking water and fire shelter. Wear OSHA approved firefighting gloves. wear hearing protection when working around equipment where noise level exceeds 90 dba. Wear additional protective equipment as dictated by local conditions and exposure to special equipment.
*Lighters	Injuries and death falls,snags,bees, snakes,smoke, burns, rolling material.	Always have an escape route . Maintain LCES. Follow the Standard Fire Orders and Watch Out Situations. Maintain communications with other Lighters and RX Fire Ignition specialist. Hand held radios shall be provided to all lighters. Do not fill drip torches near ignition sources. Do not spill burn mix on clothing.
*Fuel Mixing	Burns, spills, fuel saturated clothing and boots.	No smoking within 25 feet of mixing and filling area. Do not fill or mix in pick up beds with bed liners. Avoid the use of cellular telephones in and around fill or mixing area. Avoid fuel contact with bare hands, clothing and boots. Provide pour spouts. Use only approved fuel containers.
*ATV Operations	Injuries and death Rolling, Side hills, Holes, hidden equipment in grass	Avoid operating machine on side hills. Travel at speeds suitable to environmental conditions. Always read and follow operating procedures in the manual. Make predetermined routes prior to the beginning of the burn. Flag any hazards within the unit. Inspect machine prior to use.

<p>Holding/Mop Up/Patrol Crews</p>	<p>Smoke, burns, Falls, back injuries, bees, poison oak, snags, rolling material, eye injuries. Heat Stress. Dehydration CO Poisoning</p>	<p>Wear PPE's listed above. LCES, Follow Standard Fire Orders and Watch out Situations. Receive briefing from Holding and Mop Up Boss. Identify hazards in work area. Flag hazards for others. Use warning lights and provide traffic control on roadways during smoky and nights operations. Maintaining a high level of aerobic fitness is one of the best ways to protect yourself against heat stress. Drink lots of fluids before, during and after work. Periodically rotate crews from work sites with high smoke levels to areas of less smoke or smoke free areas. Protective clothing and equipment shall be the same as required for firefighting. Crews shall follow all guidelines in the NWCG 2005 Red Book. Maintain communications with the Dispatch.</p>
<p>Emergency Evacuation Procedures (EEP)</p>	<p>Serious illness Injuries</p>	<p>Notify Dispatch, request medical response from the responsible medical first responders. Provide type of injury, location, access, number of patients. Identify EMT's and available medical equipment on project during briefing</p>