



Bear Spray

Document Number: RGS0017A	Standard – Administrative	Applies To: Regional Wood Buffalo
Revision Date: 2015/08/01 Revision: 1 Review Cycle: 1 Year	Document Owner (Title): Jim Chuey, General Manager, EH&S, Oil Sands & In Situ	Effective Date: 2014/08/01

Summary of Changes

Rev No.	Section Changed	Revision Made
1		New Document

Scope

This standard applies to all personnel and contractors working in the Wood Buffalo Region.

Purpose

- To drive continuous improvement of workplace safety.
- To assist in the creation of a safe work environment in locations and work scopes where the risks associated with bear encounters cannot be eliminated or controlled.

Compliance

This standard applies to all personnel and contractors working in the Wood Buffalo Region effective August 1, 2014.

Roles and Responsibilities

The following individuals and groups have the following roles and responsibilities:

- | | |
|---------------------------|---|
| Document Owner | <ul style="list-style-type: none"> • Ensures this document is reviewed according to the required revision cycle. • Ensures the document is updated to accommodate changes to Suncor, provincial, and federal regulation. • Ensures the document is updated to mitigate risks found as the result of an incident. |
| Document Approver | <ul style="list-style-type: none"> • Ensures this standard is necessary and that it aligns with management and company direction. |
| Supervisors | <ul style="list-style-type: none"> • Ensures that this document is available and implemented when required. • Ensures that workers are trained in the use of personal protective equipment and use it in the appropriate manner |
| Front Line Workers | <ul style="list-style-type: none"> • Works in compliance with this document and direction provided by the Supervisor. • Handles bear spray in accordance with Suncor policies. |

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Important Contacts The following contacts are important to this standard.

Wildlife Management Department	Regional Wood Buffalo	wildlife@suncor.com
	Base Plant	780-370-7114 (Environmental Affairs)
	Firebag	780-598-4335 (EHS)
	Fort Hills	780-743-6840 (Environmental Affairs)
	McKay River	780-792-2454 (EHS)

Terms, Definitions and Acronyms The following terms, definitions and acronyms are used in this standard:

Aerosol Safety Container	A safe containment device for storage and transportation of Bear spray in motorized vehicles or in a building.
Bear Encounter	To unexpectedly physically come upon, meet, or be in conflict with a bear, with no safe retreat to a vehicle or building.
Bear Spray	A non-lethal spray that has proven itself effective against bears that are in close proximity (within 3m) to the individual. A form of personal protective equipment.
Feeding Wildlife	Includes hand feeding, throwing food towards an animal, leaving food or household waste accessible to an animal and littering.
Habituation	When human behavior modifies animal behavior and animals stop being afraid of humans.
Natural Habitat	An ecological or environmental area that is inhabited by a particular species of animal, plant, or other type of organism. It is the natural environment in which an organism lives, or the physical environment that surrounds a species population. This includes but is not limited to reclaimed areas and the environmental buffer zones.
Personal Protective Equipment	Any device worn or held by an individual for protection against one or more health and safety hazards.
Waste	Household garbage including food, food waste, food wrappers, coffee cups, as well as non-food items such as oils greases, cleaning agents, shop or lab waste.

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Terms, Definitions & Acronyms *Continued*

Wildlife	Big game, birds of prey, fur-bearing animals, migratory game birds, non-game animals, non-license animals and upland game birds, and includes any hybrid offspring resulting from the crossing of 2 wildlife animals.
Wildlife Management Department	The department responsible for developing and maintaining bird and wildlife programs on each site. Depending on the site, the department may be Environmental Affairs, Reclamation or EHS.
Wildlife-proof Waste Bin	Waste container that is specifically designed to keep black bears and other wildlife out when used appropriately.

ANY WORKER CARRYING BEAR SPRAY PERSONAL PROTECTIVE EQUIPMENT MUST MEET THE FOLLOWING REQUIREMENTS:**Standard****1. Hierarchy of Controls**

Item	Description
1.1	Implement proactive, behaviour and audio controls prior to using contact controls. (Appendix 1)

2. Training

Item	Description
2.1	Bear spray shall only be handled by employees who have received appropriate training.
2.2	Wildlife training (Appendix 2) shall contain the following learning objectives <ul style="list-style-type: none"> • Bear ecology • Bear behaviour • Human/wildlife conflicts • Defensive vs predatory wildlife encounters • Response to bear encounters • Non-Lethal Deterrents.
2.3	Wildlife training shall specifically contain instruction on bear spray safe work procedures, preferentially including a practical bear spray component (i.e. discharge of inert bear spray).

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3. Safety

Item	Description
3.1	Bear spray shall be stored and transported in an aerosol safety container.
3.2	Bear spray shall not be transported in a Suncor provided bus or airplane.
3.3	When worn, bear spray shall be carried in a holster, must be visible and must be positioned so it is easily accessible.
3.4	Bear spray must be accompanied by the MSDS sheet.

4. Product

Item	Description
4.1	Bear spray canisters must have a Suncor approved MSDS.
4.2	Bear spray canisters are to be a maximum of 230 grams in size.
4.3	Bear spray canisters must display a Pesticide Control Products Act registration number.

5. Regulatory

Item	Description
5.1	Bear spray discharge for any reason shall be reported to your leader and entered as an ILP.
5.2	Any discharge of bear spray in a wildlife encounter shall be entered as an ILP and reported to the Wildlife Management Department.

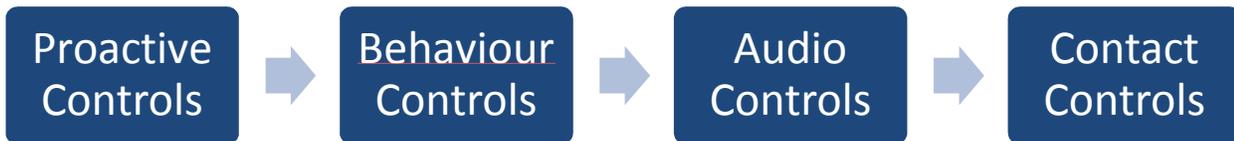
End of Standard

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Appendix 1 – Hazard Controls

The hierarchy of controls must be used when the risk to worker health and safety cannot be eliminated. Personal protective equipment, such as bear spray, shall be carried as the last line of defense when proactive controls have been implemented and do not provide sufficient risk reduction. PPE should be used as part of an integrated organizational approach to health and safety management. It should complement other control methods, not replace them.



Controls While engaged in field activities, workers shall abide by the hierarchy of controls, which include:

1. Proactive Controls

Item	Action
1.1	All outdoor waste receptacles must be wildlife-proof.
1.2	All wildlife-proof waste bins must be in good working condition.
1.3	All food must be kept away from the work site – where this is not possible, proper hazard assessment must be completed.
1.4	Lunchrooms doors and windows shall be closed when not in use. If workers need to have food in vehicles, ensure the windows and doors are closed.
1.5	Smoke pits have good line of sight and have zero waste on the floor.
1.6	No barbecues or other outdoor cooking devices are used until a standard is developed.

2. Behaviour Controls

Item	Action
2.1	Workers will not contribute to wildlife habituation.
2.2	Workers will not stop a vehicle to look at an animal; they will drive away with caution and report the sighting.

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Continued

- | Item | Action |
|-------------|---|
| 2.3 | Taking pictures of wildlife is prohibited, except for in specific situations as determined by Environmental Affairs. |
| 2.4 | Feeding of wildlife, including direct or indirect feeding, is prohibited and is subject to disciplinary action up to and including termination. |

3. Audio Controls

- | Item | Action |
|-------------|---|
| 3.1 | Headphones and listening devices should not be used while working in or close to natural habitat. |
| 3.2 | Workers working outdoors should also consider carrying an airhorn or pealess whistle (Fox 40 or similar), which can be used to deter an approaching animal. |
| 3.3 | Improper use of audio devices could be subject to disciplinary action up to and including termination. |

4. Contact Controls

- | Item | Action |
|-------------|--|
| 4.1 | Any worker using or transporting contact controls must be appropriately trained in the use of the controls. |
| 4.2 | Bear spray may be carried and deployed as a last line of defence by trained workers. |
| 4.3 | Conditioning tools such as bear bangers and rubber bullets shall only be carried and deployed by workers approved by the Wildlife Management Department and authorized under an Alberta Fish and Wildlife permit or license. |

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Appendix 2 – Training

Training All employees and contractors that are exposed to risks associated with bear encounters shall be provided training in awareness and encounter techniques.

1. Suncor Training

Step

Action

- 1.1 There are three levels of training offered at Suncor (Table 1).
- 1.2 The Wildlife Training Flow Chart (Figure 1) provides direction to Supervisors to determine which level of training is required for workers.
- 1.3 To carry bear spray on Suncor sites, Level 2 or equivalent training or instruction is required.

2. Records

Step

Action

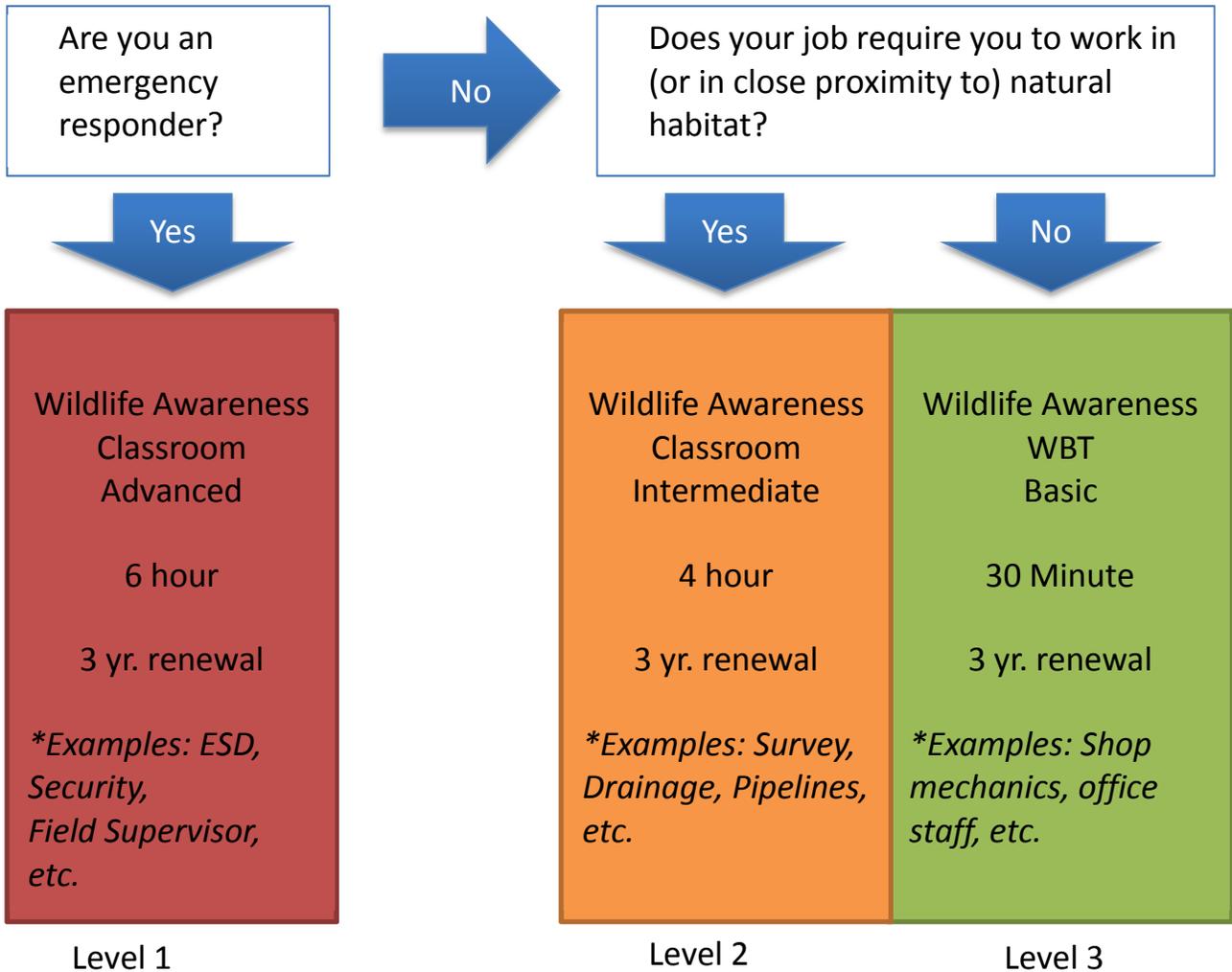
- 2.1 Records of training/instruction in Wildlife Awareness training shall be kept on file and must be made available upon request.

Table 1: Suncor Wildlife Training

Level	1	2	3
Course Name	Wildlife Awareness Classroom - Advanced	Wildlife Awareness Classroom - Intermediate	Wildlife Awareness Web Based Training
Qualified workers	Workers who may require to respond to a wildlife related incident	Workers who work in high risk wildlife habitat areas or work areas in close proximity to high risk areas	All Workers
Renewal	3 Years	3 Years	3 Years
Theory	<ul style="list-style-type: none"> •Wildlife Awareness & Safety •Human-Bear Conflicts as Critical Situations •Why Human-Bear Conflicts Occur •Traditional Management Techniques •Understanding Bear Behaviour •Use of Non-Lethal Deterrents (Bear Spray, Rubber Slugs, Noise Deterrents, Portable, Electric Fencing) •Bear Aversion Techniques, Bear Aversion Field Application 	<ul style="list-style-type: none"> •Bear Ecology •Bear Behaviour •Human/Wildlife Conflicts •Wildlife Encounters (Defensive and Predatory) •Response to Bear Encounters •Non-Lethal Deterrents 	<ul style="list-style-type: none"> •Bears Ecology •Hierarchy of Controls •Human-Bear Contact •Recognize and react to various bear behaviours
Practical	<ul style="list-style-type: none"> •Noise Deterrents •Physical Deterrents •Bear Spray 	<ul style="list-style-type: none"> •Bear Spray 	

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Figure 1: Wildlife Training Flow Chart



**Examples list is not all inclusive. Review training need with Supervisor to ensure proper level of training for specific job role is understood*

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The following individuals have approved and signed this document.

UserName: Jim Chuey (jchuey)

Title: GM EH&S Oil Sands & In Situ

Date: Friday, 01 August 2014, 11:04 AM Mountain Time

Meaning: Approver 1 Signed

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