

APPENDIX D

Accidents and Malfunctions

1.0 INTRODUCTION

This appendix provides information on potential accident and malfunction scenarios that could lead to the release of contaminants into the surrounding environment for each phase of the Project and Emergency Response Plans.

2.0 POTENTIAL SCENARIOS AND MITIGATIONS

A summary of potential accident and malfunction scenarios for the Project and potential mitigations and responses are presented in Table D-1.

Table D-1: Potential Accident and Malfunction Scenarios

Scenarios	Potential Mitigations and Responses
Fire (construction and operations)	<p>Mitigation</p> <ul style="list-style-type: none"> ▪ Compliance with all occupational health and safety requirements ▪ Employee training, policies and inspections ▪ Good housekeeping practices ▪ Proper storage and handling of flammable and combustible materials <p>Response</p> <ul style="list-style-type: none"> ▪ Fire response outlined in Emergency Response Plan ▪ Proper fire suppressions systems (e.g., extinguishers, sprinkler systems.) and alarm systems ▪ On-site emergency services include firefighting and medical support as needed ▪ If necessary, Wheatland County emergency services will be called to scene
Spills (fuel, chemicals) on-site (construction and operations)	<p>Mitigation</p> <ul style="list-style-type: none"> ▪ Compliance with all occupational health and safety requirements ▪ Compliance with <i>Canadian Environmental Protection Act, 1999</i> requirements for fuel storage and other material storage ▪ Employee training, policies and inspections ▪ Structural and operational controls <p>Response</p> <ul style="list-style-type: none"> ▪ Spill response and clean-up outlined in Emergency Response Plan ▪ Spill response kits and other required materials available on-site ▪ On-site emergency services include firefighting and medical support as needed ▪ If necessary, Wheatland County emergency services will be called to scene
Wildlife interactions with vehicles including aircraft (construction and operations)	<p>Mitigation</p> <ul style="list-style-type: none"> ▪ Employee training, policies and inspections ▪ Shut off vehicles and equipment when not in use to reduce disturbance to wildlife species ▪ Avoid unnecessary travel on and to and from the Project site to reduce risk of wildlife-vehicle interactions ▪ Follow posted speed limits to reduce risk of wildlife-vehicle interactions ▪ Use bird deterrent and/or water level management for the stormwater facilities to discourage their use by migratory birds, as practical ▪ Mitigations will be part of the Project’s Airport Wildlife-Management Plan which will be developed per Transport Canada guidance <i>Sharing the Skies: Guide to the Management of Wildlife Hazards – TP 13549</i> <p>Response</p> <ul style="list-style-type: none"> ▪ Wildlife-vehicle interaction response outlined in Emergency Response Plan ▪ On-site emergency services include firefighting and medical support as needed ▪ If necessary, Wheatland County emergency services will be called to scene

Table D-1: Potential Accident and Malfunction Scenarios

Scenarios	Potential Mitigations and Responses
Release of unacceptable runoff to a surface watercourse (operations)	<p>Mitigation</p> <ul style="list-style-type: none"> ▪ Zero-discharge stormwater management system approved by Alberta Environment and Protected Areas ▪ Design accounts for extreme weather conditions as required by Alberta Environment and Protected Areas ▪ Employee training, policies and inspections <p>Response</p> <ul style="list-style-type: none"> ▪ Release response in Emergency Response Plan ▪ Notify municipal, provincial and federal regulators, as required
On-site vehicle accidents (construction and operations)	<p>Mitigation</p> <ul style="list-style-type: none"> ▪ On-site speed restrictions and signage ▪ Employee training and policies ▪ Structural controls (e.g., speed bumps, barriers) <p>Response</p> <ul style="list-style-type: none"> ▪ Vehicle accident response outlined in Emergency Response Plan ▪ On-site emergency services include firefighting and medical support as needed ▪ If necessary, Wheatland County emergency services will be called to scene

3.0 EMERGENCY RESPONSE PLAN

The Project will have an Emergency Response Plan to outline actions to be taken before, during and after an accident, malfunction or emergency. With proper planning, injuries, property damage and business interruption can be reduced. A sample table of contents for an Emergency Response Plan for a De Havilland facility is presented in Attachment 1. It is anticipated that the Project Emergency Response Plan will include similar information and level of detail. The construction contractors, once selected, will be required to have an Emergency Response Plan, or equivalent, for their work.

An emergency services facility will be constructed on site to respond to emergencies relating to the Project. This will include firefighting, medical support and airport security. County emergency services will respond to emergencies that occur within or around buildings. Shared response agreements will be considered with Wheatland County.

ATTACHMENT 1

**Sample Emergency Response Plan
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