

Manual 001

Facility and Well Site Inspections

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Alberta Energy Regulator

Manual 001: Facility and Well Site Inspections

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Abbreviations

AER	Alberta Energy Regulator
AST	aboveground storage tanks
AWSS	aboveground synthetically lined walled storage systems
<i>COP</i>	<i>Code of Practice</i>
DSD	<i>Dam and Canal Safety Directive</i>
DDS	digital data submission
DEOS	dehydrator engineering and operations sheet
ECP	engineered containment pond
<i>EPEA</i>	<i>Environmental Protection and Enhancement Act</i>
<i>EPZ</i>	<i>Emergency Planning Zone</i>
<i>ERP</i>	<i>Emergency Response Plan</i>
FIS	Field Inspection System
LEE	lined earthen excavations
<i>OGCA</i>	<i>Oil and Gas Conservation Act</i>
<i>OGCR</i>	<i>Oil and Gas Conservation Rules</i>
<i>PLA</i>	<i>Public Lands Act</i>
<i>PLAR</i>	<i>Public Lands Administration Regulation</i>
RRR	<i>Release Reporting Regulation</i>
TDL	temporary diversion licence
UST	underground storage tank
WA	<i>Water Act</i>
WMR	<i>Water (Ministerial) Regulation</i>
WWGSHEs	<i>Water Wells and Ground Source Heat Exchange Systems</i>

Introduction

Manual 001: Facility and Well Site Inspections is a resource document and tool for the Alberta Energy Regulator (AER) compliance staff and industry. Its purpose is to ensure that oil and gas production and processing facilities, injection and disposal facilities, custom treating plants, waste management facilities, and well sites are inspected in a consistent manner throughout Alberta.

AER Safety and Conduct

Safety is important to the AER. Compliance staff conduct their work in accordance with recognized standards of practice. Compliance staff may report unsafe operating conditions and practices to the licensee and to Alberta Workplace Health and Safety if necessary.

AER compliance staff may assess regulated activities at any time. Licensee personnel may be present during the AER compliance activities. During compliance activities, the licensee can provide site and operational information, and the AER may inform licensee representatives of AER requirements and processes. Compliance staff can also communicate any remedial or follow-up work that may be required.

Industry Compliance

Licensees may use *Manual 001* as a guide for their own compliance management systems; however, the AER also recognizes the importance of considering issues beyond the scope of this document. Efficient, safe, orderly, and environmentally responsible development of Alberta's energy resources is best achieved through the combined application of this manual with broader management and systems-based approaches.

Manual 001 identifies many noncompliance statements, but it is not an exhaustive inventory. Each noncompliance statement is accompanied by references to the relevant requirements from the energy resource enactments, specified enactments, and AER directives. Noncompliance statements are short statements that summarize what an inspector may look for and are not intended to include every aspect of the requirement. Accordingly, *Manual 001* should not be relied on in designing or implementing a compliance program, and the actual requirement should always be referred to in order to understand the full extent of the requirement.

During compliance activities, AER staff may ask to access a licensee's operations or controlled areas, inspect a licensee's activities, and review all books, records, and documents that pertain to the construction, operation, and maintenance of a well site or facility. A licensee who interferes with or fails to assist the AER in the exercise of this authority may be guilty of an offence under the *Oil and Gas Conservation Act*, Part 15, section 96.

Compliance staff may use education, prevention, or enforcement when dealing with industry compliance issues.

How to Use This Manual

Manual 001 is organized into key technical operations: Gas Facilities, Oil Facilities, Waste Facilities, and Well Site Inspections. Each section contains related noncompliance statements and their relevant regulatory references. The effective identification of a noncompliance entails reviewing and understanding the referenced requirements to ensure the correct application of the associated noncompliance statement.

Regardless of the type or scope of the compliance activities, AER staff may apply any section of *Manual 001* deemed relevant.

Noncompliance statements in the manual are structured as follows:

Manual #	Description
3.4.3.1	No notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140]

- The **Manual #** is the number used by the Field Inspection System (FIS) and the Digital Data Submission (DDS) system to identify inspection items in the database—this number does not relate to sections in acts, rules, or AER directives.
- The **Description** is the noncompliance statement and associated requirements or rules.

The historical risk ratings (high/low) have been removed from this edition of *Manual 001*. Before 2016, the AER predetermined risk ratings; however, under the *Integrated Compliance Assurance Framework* and *Manual 013: Compliance and Enforcement Program*, the AER no longer uses predetermined risk ratings. For more information, see [Compliance Assurance Program](#).

A Gas Facilities

1 Equipment

1.1 Gas Measurement Operations

Manual #	Description
1.1.1.1	No gas delivery point (sales) measurement. [<i>Directive 017 1.7.2(i), 4.1, 9.3</i>]
1.1.2.1	Produced gas (plant inlet, total battery/group gas) not metered. [<i>Directive 017 1.7.1(ii), 1.7.2(iii), 4.1, 4.2, 5.5, 7.1.1</i>]
1.1.3.1	Flared/vented gas not measured. [<i>Directive 017 4.1, 4.3.3.1(10), 4.3.5.1, 4.3.5.2</i>]
1.1.4.1	Fuel gas not measured. [<i>Directive 017 4.1, 4.2.2, 4.3.5.2, 12.2.2</i>]
1.1.5.1	Acid gas not metered or stream does not have continuous temperature measurement. [<i>Directive 017 4.3.1, 11.1, 11.2, 11.4.4.1, 11.4.4.3</i>]
1.1.6.1	Dilution gas volumes not metered. [<i>Directive 017 (4.3.5.2)</i>]
1.1.7.1	Design, installation, and operation of measurement system is not in accordance with requirements. [<i>Directive 017 (4.3.1), (4.3.4), (4.3.5)</i>]
1.1.8.1	Gas well effluent measurement test taps installed upstream of the well effluent meter. [<i>Directive 017 7.4</i>]
1.1.9.1	Meter not calibrated/proved since installation, following repairs, or calibration/proving expired. [<i>Directive 017 2.5.1, 2.5.2, 2.5.4</i>]
1.1.10.1	Calibration procedures not in accordance with requirements. [<i>Directive 017 2.5.1</i>]
1.1.11.1	Gas meter internal components are unsatisfactory. [<i>Directive 017 2.5.2, 4.3.1</i>]
1.1.12.1	Gas meter internal components not checked in accordance with requirements. [<i>Directive 017 2.5.2</i>]
1.1.13.1	Flowing gas temperature not determined in accordance with the requirements. [<i>Directive 017 4.3.1</i>]
1.1.14.1	Sensing lines between orifice meter and recording device not designed in accordance with requirements. [<i>Directive 017 4.3.4.1</i>]
1.1.15.1	Chart recorder not suitably winterized to prevent sensing lines and other piping from freezing and disrupting measurement. [<i>Directive 017 4.3.4.1</i>]
1.1.16.1	Improper chart drive speed/inappropriate use of multiday charts. [<i>Directive 017 4.3.1, 5.3, 6.5, 7.3.1, 7.4.1</i>]
1.1.17.1	Wells within gas proration battery not tested at required frequency. [<i>Directive 017 7.2.3, tables 7.2, 7.3.1, 7.4.1</i>]

1.2 Gas Measurement Administration

Manual #	Description
1.2.1.1	Produced gas not estimated in accordance with the requirements [<i>Directive 017 4.3.5</i>]
1.2.2.1	Gas production not reported to Petrinex. [<i>OGCR 12.030(1); Directive 007 2.3; Directive 017 13.2.2</i>]
1.2.3.1	Gas production determined using measurement by different practices that are not in accordance with requirements. [<i>Directive 017 5.5</i>]
1.2.4.1	Flared/vented gas not reported to Petrinex. [<i>OGCR 12.030(1); Directive 007 2.3; Directive 017 4.2.2, 4.3.3.1(4), (5), 11.4.4.1, 11.4.4.3</i>]
1.2.5.1	Fuel gas not reported to Petrinex. [<i>OGCR 12.030(1); Directive 007 2.3; Directive 017 4.3.3.1(4), (5), (7), (9)</i>]
1.2.6.1	Acid gas not reported to Petrinex. [<i>OGCR 12.030(1); Directive 007 2.3; Directive 017 4.3.3.1(4), 11.4.4.1–11.4.4.3</i>]

Manual #	Description
1.2.7.1	Measurement not in accordance with approval. [<i>Directive 017</i> 5, 5.1, 5.2; see specific approval]
1.2.8.1	Meter calibration/proving tag or detailed report does not meet requirements. [<i>Directive 017</i> 2.3 Exceptions (1), 2.5.2, 2.5.2(2)–(4), 2.5.3, 2.5.4]
1.2.9.1	Incorrect or insufficient information recorded on chart. [<i>Directive 017</i> 4.3.3.1(2), 4.3.4.2]

1.3 Hydrocarbon Liquids Measurement Operations

Manual #	Description
1.3.1.1	No hydrocarbon liquid measurement at plant inlet or group measurement point. [<i>Directive 017</i> 4.2.2, 7.1.1, 7.3, 7.4, 13.2.1]
1.3.2.1	No hydrocarbon liquid delivery point measurement. [<i>Directive 017</i> 1.7.2(ii), 9.3, 10.1, 10.2, 10.3, 13.2.1]
1.3.3.1	Metering system not designed, installed, or operated as required. [<i>Directive 017</i> 2.6(1), 2.8.1, 2.8.2, 6.3.1, 13.2.1]
1.3.4.1	Meter installed downstream of snap-acting dump valve. [<i>Directive 017</i> 2.6(1), 2.8.1, 2.8.2, 2.9, 13.2.1]
1.3.5.1	Measurement device not calibrated/proved since installation, following repairs, or calibration/proving expired. [<i>Directive 017</i> 2.6, 2.8.1, 2.8.2, 2.9, 2.12, 2.13, 2.14, 13.2.1]
1.3.6.1	Prover tap size or location not in accordance with requirements. [<i>Directive 017</i> 2.6(2), 13.2.1]
1.3.7.1	Procedures for the proving/calibration of measurement device/system are not in accordance with requirements. [<i>Directive 017</i> 2.6, 2.7, 2.8, 2.9, 2.11, 2.12, 2.13, 13.2.1]
1.3.8.1	Tank gauging not in accordance with requirements. [<i>Directive 017</i> 10.5.1, 13.2.1, 14.7, 14.7.3, 14.7.4, 14.7.5]

1.4 Hydrocarbon Liquids Measurement Administration

Manual #	Description
1.4.1.1	Hydrocarbon liquid production not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007</i> 2.3; <i>Directive 017</i> 13.2.2]
1.4.2.1	Hydrocarbon liquid production not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007</i> 2.3; <i>Directive 017</i> 13.2.2]

1.5 Water/Other Measurement Operations

Manual #	Description
1.5.1.1	No water measurement at plant inlet or group measurement point. [<i>Directive 017</i> 4.2.2, 7.1.1, 7.3, 7.4, 15.2.1]
1.5.2.1	No water production measurement. [<i>Directive 017</i> 6.1, 6.2.2.1, 7.1.1, 7.2.1, 7.3, 7.3.1, 7.3.3, 7.4, 7.4.1, 7.4.3, 15.2.1]
1.5.3.1	No measurement of injected/disposed water or other substance(s). [OGCR 14.200; <i>Directive 017</i> 1.7.3(ii), (iv), 15.2.4, 15.2.8]
1.5.4.1	Meter or product analyzer not installed in accordance with the requirements. [<i>Directive 017</i> 2.6, 14.6]
1.5.5.1	Water meter not proved since installation, following repairs, or meter proving has expired. [<i>Directive 017</i> 2.6, 2.10]
1.5.6.1	Product analyzer calibration expired. [<i>Directive 017</i> 2.11]
1.5.7.1	Sulphur measurement device/procedure does not exist or does not meet requirements. [<i>Directive 017</i> 2.14, 11.1, 11.3.1, 11.3.2, 11.3.2.1]

1.6 Water/Other Measurement Administration

Manual #	Description
1.6.1.1	Water production not reported to Petrinex [OGCR 12.030(1); <i>Directive 007 2.3</i> ; <i>Directive 017 15</i>]
1.6.2.1	Injection or disposition of water/other substance not reported to Petrinex [OGCR 12.030(1); <i>Directive 007 2.3</i>]
1.6.3.1	Measurement device calibration/proving tag/detailed report not attached or does not meet requirements. [<i>Directive 017 2.6</i> (10), (11), Exemptions (1), 2.10]
1.6.4.1	Product analyzer tag/detailed report does not meet requirements. [<i>Directive 017 2.11</i>]

1.7 Spacing Operations

Manual #	Description
1.7.1.1	Flare stack or incinerator less than 100 metres from an occupied residence. [OGCR 8.080(3); <i>Directive 060 7.8</i> (3)]
1.7.2.1	Flare stack or incinerator less than 25 metres, or enclosed combustors less than 10 metres, from oil or gas processing equipment. [OGCR 8.080(5); <i>Directive 060 7.8</i> (1)(c), (7.8(2)(c))]
1.7.3.1	Flare stack or incinerator less than 50 metres, or enclosed combustors less than 10 metres, from a well or oil storage tank. [OGCR 8.080(5); <i>Directive 060 7.8</i> (1)(a), (b), 7.8(2)(a), (b)]
1.7.4.1	Flare pit, flare stack, or incinerator less than 100 metres from a surface improvement, except surveyed roadway or road allowance. [OGCR 8.080(3); <i>Directive 060 7.8</i> (3)]
1.7.5.1	Flare or incinerator less than 40 metres to a public roadway. [OGCR 8.080(3); <i>Directive 060 7.8</i> (3), footnote 18]
1.7.6.1	Flame type equipment within 25 metres of a process vessel without adequate flame arrester. [OGCR 8.090(5), (8)]
1.7.7.1	Flame type equipment within 25 metres of a well, oil storage tank, or other source of ignitable vapour. [OGCR 8.090(4)]
1.7.8.1	Ventilation requirements not met for flame type equipment within the same building as a process vessel or source of ignitable vapour. [OGCR 8.090(6)]
1.7.9.1	Fire within 50 metres of a well, oil storage tank, or other source of ignitable vapour (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(2)]
1.7.10.1	Smoking within 25 metres of a well, separator, oil storage tank, or other source of ignitable vapour. [OGCR 8.120(1)]
1.7.11.1	Outer perimeter of tank dike to surface improvement (other than public roadway) less than 60 metres. [OGCR 8.030(4)]
1.7.12.1	Oil storage tank(s) to well less than 50 metres (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(3); <i>Interim Directive (ID) 91-03 4.1</i> (1)]
1.7.13.1	Internal combustion engine exhaust within 25 metres of a well, process vessel, oil storage tank, or source of ignitable vapours, not constructed to prevent flame emergence. [OGCR 8.090(9)(a)]
1.7.14.1	End of exhaust pipe from internal combustion engine is located within 6 metres of the well and/or is not directed away from the well. [OGCR 8.090(9)(b)]

1.8 Flaring, Incinerating, and Venting Operations

Manual #	Description
1.8.1.1	No flare or incinerator stack where one is required. [OGCR 7.060(1)–(3), 7.070(1), (3), (5), (6)]
1.8.2.1	Operating procedures and/or automatic shutdowns not in place where needed to control sour/acid gas flaring events. [Directive 060 7.5(3)]
1.8.3.1	Failure to meet solution gas reduction requirements during planned shutdowns and emergency events. [Directive 060 2.11.1(1), (2), table 1, 5.2(4)]
1.8.4.1	Stack height or design does not meet requirements. [OGCR 7.060(4)(a), (7), 7.070(5), (6); Directive 060 7.4]
1.8.5.1	Pilot/ignition device(s) not available/operable where required. [OGCR 7.060(4)(c), 7.070(5); Directive 060 7.3, 7.3.1(1), appendix 11]
1.8.6.1	Insufficient heating value available to flare. [Directive 060 7.1.1(1)]
1.8.7.1	No wind guard on gas sour/acid flare when exit velocity is not sufficient. [OGCR 7.060(4)(b), 7.070(5)]
1.8.8.1	No flame arrester, equivalent safety device, or appropriate engineering and operating practices to prevent backflash where required. [OGCR 8.090(7); Directive 060 7.7, 8.7(6)]
1.8.9.1	No knockout drum or flare separator where required. [OGCR 7.060(4)(d), 7.070(5); Directive 060 7.6(1), 7.6.1, 8.7(3)(b)]
1.8.10.1	Knockout drum and/or flare separator controls, equipment, or design does not meet requirements. [Directive 060 7.6, 7.6.1]
1.8.11.1	Exposed flame from an incinerator. [Directive 060 7.1.2 (1)(a), 7.4(1)(a)]
1.8.12.1	Insufficient exit temperature, no automatic temperature shutdown, or no process temperature control and recording where required for incinerators. [Directive 060 7.1.2(2)–(4)]
1.8.15.1	Flare pit not decommissioned by December 31, 2015; without exemption. [OGCR 8.080(4); Directive 060 7.11]
1.8.16.1	Routine flaring, incinerating, or venting solution gas from an oil/bitumen battery with a GOR greater than 3000 m ³ /m ³ . [Directive 060 2.6(1)(b)]
1.8.17.1	Total venting (routine and nonroutine) at a site is >15.0 10 ³ m ³ /month or >9.0 10 ³ kg of methane/month [Directive 060 8.3(1)]
1.8.18.1	Compressor testing points are not accessible or clearly identified [Directive 060 8.6.2.1(3)]
1.8.19.1	Level controllers are not designed to minimize venting. [Directive 060 8.6.1(3)]
1.8.20.1	Non-level controllers are not designed to minimize venting. [Directive 060 8.6.1(4)]
1.8.21.1	Reciprocating compressor is exceeding vent rate. [Directive 060 8.6.2.2(3)]
1.8.22.1	Centrifugal compressor is exceeding vent rate. [Directive 060 8.6.2.3(2)]
1.8.23.1	Glycol dehydrator is exceeding methane emissions limit. [Directive 060 8.6.3(2)]

1.9 Flaring, Incinerating, and Venting Administration

Manual #	Description
1.9.1.1	Failure to conduct dispersion modelling for flaring or incinerating gas with greater than 10 mol/kmol H ₂ S or 1 tonne per day of sulphur. [<i>Directive 060</i> 7.12(1), (2), 7.12.5(1)]
1.9.2.1	Decision tree or economic evaluation not completed or results not implemented for new, existing, and temporary flares, incinerators, and vents as required. [<i>Directive 060</i> 2.3 (figure 2), 2.5, 2.6, 2.9, 3.1(1), (2), (figure 3), 4.1(5), (figure 5), 5.1 (figure 6), 6.1 (figure 7), 7.11(5)]
1.9.3.1	Failure to keep flaring, incinerating, and venting logs as required. [<i>Directive 060</i> 5.3(3), 5.5(4), 10.1(1)(b)–(e), (2)]
1.9.4.1	Flaring or incinerating sour gas containing more than 50 mol/kmol H ₂ S without a permit where required. [OGCR 7.055; <i>Directive 060</i> 3.3.1(1), 3.3.2(2)–(4)]
1.9.5.1	Failure to comply with any condition of flaring permit or approval (temporary permits, volume allowance threshold exceedance permits, and blanket permits). [<i>Directive 060</i> 3.3]
1.9.6.1	Failure to notify the appropriate AER field centre of flaring, incinerating, or venting events as required. [<i>Directive 060</i> 2.10(1), 2.11.1(4), 3.8(2), 4.2, 5.4, 6.4(1)–(3), table 1, table 2]
1.9.7.1	No resident notification and/or consultation. [<i>Directive 060</i> 2.6(7)(c), (7)(d), 2.10(1), 2.11.1(4), 3.8(1), (4)–(7), 4.2(1), 5.4, 6.4(1), table 1, table 2]
1.9.8.1	Public information packages or resident notification information do not meet the requirements. [<i>Directive 060</i> 2.10.1, 3.8(4), (5)]

1.10 Signs and Security Operations

Manual #	Description
1.10.1.1	Improper identification sign, sign not posted, improper warning symbol, or no warning symbol posted adjacent to all entrances to the developed area of the facility. [OGCR 6.020(3), (5), (7)–(13), Schedule 12; <i>Directive 055</i> 2.6]
1.10.2.1	No or inadequate fence or alternative security measures where required. [OGCR 8.170, 8.171]

1.11 Emergency Controls and Relief Systems Operations

Manual #	Description
1.11.1.1	Operating gas catalytic heater with inoperable safety shut off. [OGCR 8.090(8); <i>Occupational Health and Safety Regulation</i> , Part 1, 12(1)]
1.11.2.1	No high level and high pressure shutdown device installed on a separator, treater, or other pressure vessel which receives production from an oil well containing more than 10 mol/kmol H ₂ S. [OGCR 7.060(3.1)]
1.11.3.1	No or inadequate/inappropriate pop tank or alternate conditions not adhered to. [OGCR 8.031]

1.12 Measurement General

Manual #	Description
1.13.1.1	Measurement schematic not created, retained, or master copy not updated annually to reflect changes or deletions or confirming no change. [<i>Directive 017</i> 1.9.1, 1.9.2]
1.13.2.1	Reporting of all activities, products, volumes, and product movements submitted to Petrinex not accurate. [<i>Directive 007</i> 2.1.3(8), 2.1.4(10), 2.3(27)]

2 Storage

2.1 Pre-1996 AST and UST Exemptions

Manual #	Description
2.1.1.1	Tank farm area reconstruction does not meet requirements. [<i>Directive 055</i> 1.6.3(1)]
2.1.2.1	AST holding materials other than fresh water does not meet pre-96 dike requirements. [<i>Directive 055</i> 1.6.3(2)]
2.1.3.1	Single-walled aboveground storage tank $\geq 5\text{m}^3$ mechanical integrity not appropriately verified within the past five years. [<i>Directive 055</i> 1.6.3(3)]
2.1.4.1	Single-walled underground storage tank mechanical integrity not appropriately verified within past three years. [<i>Directive 055</i> 1.6.3(3)]
2.1.5.1	AST replacement or addition does not meet requirements. [<i>Directive 055</i> 1.6.3(5), (6)]
2.1.6.1	UST that failed mechanical integrity test still in service. [<i>Directive 055</i> 1.6.3(8)]

2.2 General

Manual #	Description
2.2.1.1	No notification as required by <i>Directive 055</i> . [<i>Directive 055</i> 2.1.1(13), 2.1.2(14), 3.4(50), 4.5(171)(c)]
2.2.2.1	Alternative storage method, system, device, or location without AER approval. [OGCR 8.030(3); <i>Directive 055</i> 2.1.3(16), 2.5(21), 2.5(22), 3.4(51), 3.7(67), 3.8(94)]
2.2.3.1	Storage exceeds one year duration. [<i>Directive 055</i> 2.4(19)]
2.2.4.1	Alternative water volume withdrawn within 12 months not equal or greater than the volume going into the storage device. [<i>Directive 055</i> 2.4(20)]
2.2.5.1	Storage systems and/or associated equipment do not meet spacing requirements specified in <i>Directive 055</i> . [<i>Directive 055</i> 2.6(23), 4.2.1(145)]
2.2.6.1	Concrete being used as primary containment. [<i>Directive 055</i> 1.6.4(9), 1.6.4(10), 1.6.4(11), 3(26), 3.6(58)]
2.2.7.1	Storage system differential settlement, freeze-thaw cycles, subgrade movement (including sinking, low spots, slumping, sloughing), or slope instability due to inadequate civil works. [<i>Directive 055</i> 4.6(173)]
2.2.8.1	Waste processing conducted in storage system. [<i>Directive 055</i> 5.5(190)]
2.2.9.1	Hydraulic fracturing operations storing non-water-based fluids, fluids containing hydrocarbons, or fluids containing H_2S in storage device. [<i>Directive 055</i> 5.5(190)]
2.2.10.1	Hydraulic fracturing operations did not direct fluids to a tank, or series of tanks, or other equipment prior to receiving flowback in the storage system. [<i>Directive 055</i> 5.5(191)]

2.3 Containers (Device Specific)

Manual #	Description
2.3.1.1	On-site volume of containers exceeds 1 m ³ without secondary containment. [<i>Directive 055 3.1(27)</i>]
2.3.2.1	Secondary containment for container(s) does not meet requirements. [<i>Directive 055 3.1(28)(a)(b)(c)</i>]
2.3.3.1	Container storage in trailers or buildings does not meet requirements. [<i>Directive 055 3.1(28)(d)(e)(f)</i>]
2.3.4.1	No or inadequate weather protection for containers. [<i>Directive 055 3.1(29)</i>]

2.4 AST/UST (Device Specific)

Manual #	Description
2.4.1.1	No secondary containment for open-topped tank where required. [<i>Directive 055 3.2(34)</i>]
2.4.2.1	Aboveground storage tank not constructed, designed, or operated as required. [<i>Directive 055 3.2(30), 3.2(37), 3.2(38)</i>]
2.4.3.1	Open-topped tank mechanical integrity not appropriately verified within the past five years. [<i>Directive 055 3.2(36)</i>]
2.4.4.1	Tank foundation and supports does not meet requirements. [<i>Directive 055 3.2(33)</i>]
2.4.5.1	Underground storage tank not constructed or operated appropriately. [<i>Directive 055 3.3(40), 3.3(41), 3.3(44), 5.1(177)</i>]
2.4.6.1	Flare/incinerator knockout or separator integrity testing does not meet requirements. [<i>Directive 055 3.3(42),</i>]
2.4.7.1	Newly installed UST and associated piping integrity testing not conducted. [<i>Directive 055 3.3(43)</i>]
2.4.8.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [<i>Directive 055 3.2(32)</i>]

2.5 BSF/LEE/Bulk Pad (Device Specific)

Manual #	Description
2.5.1.1	BSF not constructed, designed, or operated as required. [<i>Directive 055 3.4(45), 3.4(46), 3.4(49), 4.1.2(124)</i>]
2.5.2.1	BSF not tested for integrity prior to use. [<i>Directive 055 3.4(52)</i>]
2.5.3.1	LEE not constructed, designed, or operated as required. [<i>Directive 055 3.5(53), 3.5(54), 3.5(55)</i>]
2.5.4.1	Pre-2002 LEE integrity not appropriately verified within past three years. [<i>Directive 055 1.6.4(11)</i>]
2.5.5.1	Bulk pad not constructed of compacted clay, synthetic liner, concrete, or asphalt as required. [<i>Directive 055 3.6(56)</i>]
2.5.6.1	Bulk pad does not incorporate a leachate collection or leak detection system where required. [<i>Directive 055 3.6(56), 3.6(58)</i>]
2.5.7.1	Stockpiled materials causing spillage off the bulk pad. [<i>Directive 055 3.6(57)</i>]
2.5.8.1	Bulk pad storage area curb or slope to catchment device does not meet requirements. [<i>Directive 055 3.6(56)</i>]

2.6 AWSS (Device Specific)

Manual #	Description
2.6.1.1	AWSS synthetic liner does not provide a continuous impervious layer. [<i>Directive 055 3.7(60), 3.7(61)</i>]
2.6.2.1	AWSS not designed, located, or operated to prevent the likelihood of a release occurring or ensure the consequences of a release are minimized. [<i>Directive 055 3.7(59), 3.7.1.3(74)</i>]
2.6.3.1	Maximum capacity of any single AWSS exceeds 6600 m ³ . [<i>Directive 055 3.7.3(87)</i>]
2.6.4.1	Collective usable capacity of AWSSs on a site exceeds 30 000 m ³ . [<i>Directive 055 3.7.3(88)</i>]
2.6.5.1	Minimum freeboard not appropriate or not maintained. [<i>Directive 055 3.7.3(89), 3.7.3(90)(a)(b)(c)</i>]
2.6.6.1	No or inadequate site-specific response plan. [<i>Directive 055 3.7.4(93), 5.7(207)(c)</i>]
2.6.7.1	Failure to test the integrity of AWSS before putting it into service or integrity of AWSS not maintained. [<i>Directive 055 3.7.4(92), 3.7.4(91)</i>]

2.7 ECP (Device Specific)

Manual #	Description
2.7.1.1	ECP does not have primary and/or a secondary containment system as required. [<i>Directive 055 3.8(100)(a)(b)(c)</i>]
2.7.2.1	Minimum freeboard of 1 metre not maintained. [<i>Directive 055 3.8(105)</i>]
2.7.3.1	ECP containment system(s) contain punctures. [<i>Directive 055 3.8(101)</i>]
2.7.4.1	Primary containment damage not prevented during equipment placement and maintenance activities. [<i>Directive 055 3.8(102)</i>]
2.7.5.1	Groundwater or soil monitoring not implemented as required by <i>Directive 058</i> . [<i>Directive 055 3.8(100)(f)(g); Directive 058 6.4(74)</i>]
2.7.6.1	Leakage not measured weekly to determine the actual monthly leakage rate. [<i>Directive 055 4.5(166)</i>]
2.7.7.1	Collected leakage not managed appropriately. [<i>Directive 055 4.5(167)</i>]
2.7.8.1	Allowable action leakage rate not monitored or managed as required. [<i>Directive 055 4.5(170), 4.5(171)</i>]

2.8 Liners and Dikes (All Storage Systems)

Manual #	Description
2.8.1.1	No dike and/or impervious liner where required. [<i>Directive 055 3.2(39), 3.7.1.2(71), 3.7.1.3(75), 4.1(109), 4.2(132), 4.2(140)</i>]
2.8.2.1	Liner does not meet requirements. [<i>Directive 055 3.4(47), 3.7(62), 3.7.1.1(69), 3.7.1.2(70), 3.7.1.2(73), 3.7.1.3(75)(a), 4.1(107)–(109), 4.1.1.1(115), 4.1.2(121), 4.2(140), 4.2(141)</i>]
2.8.3.1	Liner not protected from damage, degradation, or unauthorized access. [<i>Directive 055 4.1(110), 4.1.1(114), 4.1.2(129)</i>]
2.8.4.1	Dike contains openings or not designed to contain fluids. [<i>Directive 055 4.2(133)(a)–(c)</i>]
2.8.5.1	AWSS dike not designed to withstand wave impact from storage device failure. [<i>Directive 055 4.2(134)</i>]
2.8.6.1	Diked area volumetric capacity does not meet requirements. [<i>Directive 055 4.2(135)–(137)</i>]
2.8.7.1	Dike and secondary containment area not maintained in good condition or kept free from weeds, debris, and extraneous combustible material. [<i>Directive 055 4.2(138)</i>]
2.8.8.1	Diked area not graded to a sump or low-lying area. [<i>Directive 055 4.2(142)</i>]

2.9 Temporary Storage Operations

Manual #	Description
2.9.1.1	No diking or 1 metre impervious berm for storage where diking is not optional, exceeds three months, or where combined storage capacity exceeds 3000 m ³ . [<i>Directive 055</i> 4.2.2(145), 4.2.2(147)]
2.9.2.1	Temporary storage duration exceeds one year. [<i>Directive 055</i> 4.2.2(145), 4.2.2(149)]
2.9.3.1	Contaminated materials or materials possessing the potential to leach stored directly on the ground. [<i>Directive 055</i> 4.2.2(146)]
2.9.4.1	Temporary storage area synthetic liner not minimum of 15 mil. [<i>Directive 055</i> 4.2.2(148)(a)]
2.9.5.1	Temporary storage area synthetic liner not extended over the dike or keyed into the outside of the dike. [<i>Directive 055</i> 4.2.2(148)(a)]
2.9.6.1	Leachate in temporary storage area not managed. [<i>Directive 055</i> 4.2.2(148)(b)]
2.9.7.1	Underlying soil not assessed for temporary storage area used more than three months. [<i>Directive 055</i> 4.2.2(148)(c)]

2.10 Leak Detection (All Storage Systems)

Manual #	Description
2.10.1.1	No leak detection where required. [<i>Directive 055</i> 1.6.4(9), (11), 3.2(39), 3.6(58), 3.7.1.2(73), 3.7.1.3(75)(b)(c), 3.8(100)(e), 4.3.3(156), 4.3.7(163)]
2.10.2.1	Monitoring or sampling of collected leak detection liquids does not meet <i>Directive 055</i> . [<i>Directive 055</i> 1.6.3(4), 1.6.3(7), 1.6.4(10), 1.6.4(11), 3.2(31), 4.3.1(152), 4.3.1(153), 4.3.3(157), 4.3.4(158), 4.3.5(160), 4.3.6(162), 5.6(194)]
2.10.3.1	Leak detection for storage devices within a diked area does not allow leakage to move preferentially through the layer to a collection area. [<i>Directive 055</i> 4.3.2(155)]

2.11 Operational Controls (All Storage Systems)

Manual #	Description
2.11.1.1	Loading and unloading area(s) not designed to contain leaks/spills. [<i>Directive 055</i> 5.1(175)]
2.11.2.1	Spill control or spill control device(s) not used or not adequate where required. [<i>Directive 055</i> 3.2(39), 5.1(176), (180), (181)]
2.11.3.1	Storage device not protected from damage. [<i>Directive 055</i> 2.3(18)]
2.11.4.1	Required measures not incorporated to prevent overfilling of tanks. [<i>Directive 055</i> 5.1(178)]
2.11.5.1	Double-walled AST not equipped with a valve as close as practical to the tank. [<i>Directive 055</i> 5.1(179)]
2.11.6.1	Terrestrial or bird control measures not implemented as required. [<i>Directive 055</i> 5.2(182)(a)–(b)]
2.11.7.1	Wildlife fatalities or wildlife contact not reported as required. [<i>Directive 055</i> 5.2(182)(c)]
2.11.8.1	Terrestrial or bird control measures not adequately monitored or adapted as required. [<i>Directive 055</i> 5.2(183), (184)]
2.11.9.1	Operational controls not in place to prevent unwanted microbial and biological growth that may cause noxious substances in storage system. [<i>Directive 055</i> 5.3(185)]

2.12 Withdrawal of Storage Devices from Service

Manual #	Description
2.12.1.1	A tank taken out of service is not appropriately isolated or maintained. [<i>Directive 055</i> 5.6(192), 5.6(193)]
2.12.2.1	Tank out of service 180 days or less not emptied or monthly fluid level not recorded. [<i>Directive 055</i> 5.6(194)]
2.12.3.1	Tank taken out of service greater than 180 days not clearly marked as empty and out of service. [<i>Directive 055</i> 5.6(195)]
2.12.4.1	Tank taken out of service greater than 180 days does not have all fluids/solids/gases removed. [<i>Directive 055</i> 5.6(195)]
2.12.5.1	Tank out of service greater than one year not verified for integrity prior to putting it back in service. [<i>Directive 055</i> 5.6(196)]
2.12.6.1	Non-permanent storage device is not removed, suspended, or verified as required. [<i>Directive 055</i> 3.7(65), 5.6.1(198)]
2.12.7.1	Soil contamination assessment or confirmatory soil sampling not conducted as required. [<i>Directive 055</i> 1.6.4(12), 5.6(197), 5.6.2(199)–(202)]

2.13 Inspections and Documentation

Manual #	Description
2.13.1.1	Storage system inspections not conducted at least monthly as required. [<i>Directive 055</i> 3.2(35), 5.7(204)]
2.13.2.1	Storage device inspections, monitoring, or documentation does not meet requirements. [<i>Directive 055</i> 3.2(32), 3.8(96), 4.2.1(144), 4.3(151), 4.3.1(154), 4.3.4(158), 5.7(206), 5.7(207)(a), 5.7(208), 5.8(211)]
2.13.3.1	No or inadequate storage device corrective actions as required. [<i>Directive 055</i> 1.6.4(12), 4.3.1(154), 5.7(205), 5.7(207)(b), 5.7(209)(d)]
2.13.4.1	Inventory records not maintained or retained on site or at the local field office for two years. [<i>Directive 055</i> 5.8(210)]
2.13.5.1	Required documentation not retained for a minimum of five years. [<i>Directive 055</i> 5.8(211)]

3 Environment

3.1 Emissions

Manual #	Description
3.1.1.1	H ₂ S emissions resulting in odours outside the lease boundary. [<i>Directive 060</i> 7.1(1), 8.8(1)–(3), 8.9]
3.1.2.1	Exceeding <i>Alberta Ambient Air Quality Objectives</i> . [<i>Directive 060</i> 3.3.2(2)(c), 7.1(1), 7.1.1(1), 7.4(3), 7.12(1), 7.12.2(4), 7.12.5(8), 8.7(3), 8.8(4), appendix 7(5)(b)]
3.1.3.1	Sour fluids transported via a non-pressurized tank truck or truck without suitable and functional emissions controls. [<i>Directive 060</i> 8.8(5)]
3.1.4.1	Venting and/or fugitive emissions resulting in offensive hydrocarbon odours outside the lease boundary. [<i>Directive 060</i> 8.8(3)]
3.1.5.1	Failure to meet the permissible sound level at the nearest or most impacted dwelling. [<i>Directive 038</i> 2.1(3), 2.2(9), 3.1(3), 4.4(22), 5.1(1), appendix 1]
3.1.6.1	Routine combustion of gases results in continuous or repeat black smoke emissions. [<i>OGCR</i> 7.040(1), 9.050(6)(d); <i>Directive 060</i> 7.1(2), 7.2(1)(a)]
3.1.7.1	Individual dehydrator(s) or site dehydrator benzene emissions over the limits. [<i>Directive 039</i> 3, 4]

Manual #	Description
3.1.9.1	Noise complaint response/procedures not conducted in accordance with requirements. [Directive 038 4]]
3.1.10.1	Failure to notify resident(s) within 750 metres of a dehydrator (for new, relocated, or existing glycol dehydrators). [Directive 039 2.2]
3.1.11.1	Dehydrator engineering and operations sheet (DEOS) not done, incomplete/inaccurate, and/or not posted. [Directive 039 5.1, 5.2]
3.1.12.1	Annual methane emission report is not accurate [Directive 060 8.2 (1)(2), 8.4.1(1), 8.6.1.2(1), 8.6.2.4(1), 8.10.5(1), Directive 039 5.1(40)]
3.1.13.1	Fugitive emissions have not been repaired within the appropriate timeframe. [Directive 060 8.10.4(1), (2)]

3.2 Spills

Manual #	Description
3.2.1.1	Facility closer than 100 metres to the normal high water mark of a body of water or permanent stream without appropriate protective measures. [OGCR 8.060]
3.2.2.1	Spill or release not contained/cleaned up. [OGCR 8.050(1), 8.051(b)]
3.2.3.1	No notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140]
3.2.4.1	Late notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140]

3.3 Surface Water

Manual #	Description
3.3.1.1	Release criteria of collected surface water not met prior to release to adjacent lands. [Directive 055 4.2(143), 5.4(186), 5.4(187), 5.4(188)]
3.3.2.1	Site contouring does not prevent surface water collection on the ground immediately surrounding secondary containment system. [Directive 055 4.2(131)]
3.3.3.1	Surface water not prevented from collecting around an AWSS. [Directive 055 3.7(66)]
3.3.4.1	Collected surface waters discharged into a watercourses or water body. [Directive 055 5.4(189)]
3.3.5.1	Surface water that meets the surface discharge criteria disposed to injection/disposal well. [Directive 051 2.3]

3.4 Waste Management

Manual #	Description
3.4.1.1	Site not maintained in a clean condition. [OGCR 8.150(4)]
3.4.2.1	No AER approval where required for waste management activity [OGCA 39(1)(g), OGCR 8.150 (2)(f), 8.150(3)(a), 8.152; Directive 058 5.0, 7.2(107), 7.2(108), 7.2(109), 7.3(113), 7.4(115), 7.5(126), 7.5(127), 7.6(130), 7.6.1(131), 7.6.2(142), 7.7(147), 9(163), 9.4(170), 9.10(183), 10.3(198)]
3.4.3.1	Waste management activity AER approval condition not met. [OGCR 8.150(2)(f), 8.150(3)(a); specific application and/or approval]
3.4.4.1	Waste sent to site not authorized to accept it. [OGCR 8.150(2)(b)(c); Directive 058 7.5(125), 10.3(197)]
3.4.5.1	Waste characterization not completed or not adequate to classify the waste. [OGCR 8.150(2)(a); Directive 058 2(3); Waste Control Regulation]
3.4.6.1	Oilfield waste was not properly classified as either dangerous (DOW) or non-dangerous (non-DOW). [OGCR 8.150(2)(a); Directive 058 2(3), 2(4); Waste Control Regulation]

Manual #	Description
3.4.7.1	Oilfield waste not characterized/classified prior to adding amendments, mixing, or diluting. [OGCR 8.150(2)(a); <i>Directive 058</i> 2(5), 2(6)]
3.4.8.1	Oilfield waste generator does not disclose characteristics or classification of oilfield wastes to waste carriers or receivers. [OGCR 8.150(2)(e)]
3.4.9.1	Waste tracking system not in place or tracking system does not maintain accurate and complete documentation and records. [OGCR 8.150(2)(d); <i>Directive 058</i> 3.3(19), 3.3(20)]
3.4.10.1	Oilfield waste was not properly identified (waste code). [OGCR 8.150(2)(d); <i>Directive 058</i> 3(9), appendix 2]
3.4.11.1	Shipping document not used during transportation of waste. [<i>Directive 058</i> 3(7)]
3.4.12.1	Shipping document does not include adequate information, including the waste code, the waste source, and the waste generator's contact information. [<i>Directive 058</i> 3(9), 3.1(12)]
3.4.13.1	AER's waste form not utilized, incomplete, or not adequate. [<i>Directive 058</i> 3.1(10), 3.1(11), 3.1(12), 3.1(13)]
3.4.14.1	Oilfield waste generator does not notify the AER as required for discrepancy. [<i>Directive 058</i> 3.2(15), 3.2.1(17)]
3.4.15.1	Oilfield waste generator does not investigate, reconcile, or take corrective action as required for discrepancy. [<i>Directive 058</i> 3.2(14), 3.2.1(17)]
3.4.16.1	Shipping documents or tracking information not retained by generator for a minimum of two years. [<i>Directive 058</i> 3.3(21)]
3.4.17.1	Storage or consolidation of small volumes of waste in bin/bag system does not meet requirements. [<i>Directive 058</i> 7.2(107)]
3.4.18.1	Oilfield wastes being burned. [OGCR 8.152, <i>Directive 058</i> 5]
3.4.19.1	Not monitoring or managing waste containing NORMs in accordance with the <i>Canadian Guidelines for the Management of Naturally Occurring Radioactive Materials</i> . [<i>Directive 058</i> 10.3(197)]
3.4.20.1	Oilfield waste biodegradation not conducted according to requirements. [<i>Directive 058</i> 4.1(29)–(32), 4.1.1(36)–(47), 4.1.2(49)–(56)]
3.4.21.1	Treatment not concluded/closed within 5 years or unsuccessfully treated waste not removed within five years. [<i>Directive 058</i> 4.1(28), 4.1.1(35), 4.1.2(54), 4.1.2(55), 7.4(122)]
3.4.22.1	Biodegradation notification or records keeping does not meet requirements. [<i>Directive 058</i> 4.1(33), 4.1.1(48), 4.1.2(57), 4.1.2(58), 7.4(123), 7.4(124)]
3.4.23.1	Mobile thermal treatment unit not operating according to requirements. [<i>Directive 058</i> 4.2; specific permit, licence, application, or approval]
3.4.24.1	Thermally treating oilfield wastes originating from sites outside the same production system. [<i>Directive 058</i> 4.2(60)]
3.4.25.1	No AER notification as required. [<i>Directive 058</i> 4.2.1(61), 4.2.1(63)]
3.4.26.1	Landowners or residents not notified as required. [<i>Directive 058</i> 4.2.1(61)]

4 Liability Management

4.1 Abandonment

Manual #	Description
4.1.1.1	No notification of facility abandonment. [<i>Directive 011 7.1(17)</i>]

4.2 Licensing

Manual #	Description
4.2.1.1	No licence obtained prior to construction of a facility or well, or incorrectly licensed facility or well. [OGCA 11(1)(a), 12(1)(a); OGCR 7.001, 7.002(1)(2), 7.003; <i>Directive 056 5.1</i> , table 5.1, 7.1, table 7.1]

5 Emergency Planning and Assessment

5.1 Information

Manual #	Description
5.1.1.1	Failure to provide information as requested by the regulator. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 1.4</i>]

5.2 Corporate-level ERPs

Manual #	Description
5.2.1.1	Failure to have a corporate level ERP. [OGCR 8.002; <i>Directive 071 2.1(1)</i>]
5.2.2.1	Failure to include information specified in section 2.1. [OGCR 8.002; <i>Directive 071 2.1(2)</i>]
5.2.3.1	Failure to ensure 24-hour emergency number initiates immediate action. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1(3)</i>]
5.2.4.1	Failure to ensure 24-hour emergency number is posted at primary entrance to facility. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1(4)</i>]
5.2.5.1	Failure to have information required by appendix 4 of <i>Directive 071</i> . [OGCR 8.003, 8.004; <i>Directive 071 2.1.1(5)</i> and 5.1(1)]
5.2.6.1	Failure to define appropriate actions that would be taken for each level of emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.1(6)</i> , 5.1(2)]
5.2.7.1	Failure to include the specified information in the communications plan. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.2(7)</i> , 5.8(19)]
5.2.8.1	Failure to identify roles and responsibilities of personnel. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.3(8)</i>]
5.2.9.1	Failure to describe how an emergency will be managed and coordinated. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.4(9)</i> , 5.10(22)]
5.2.10.1	Failure to outline procedures for activating and reception centre. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.5(10)</i> , 5.12(24)]

5.3 Emergency Planning and Response Zones

Manual #	Description
5.3.1.1	Failure to adjust the actual size and shape of the EPZ. [OGCR 8.003, 8.004; <i>Directive 071 3.1(1)</i>]
5.3.2.1	Failure to use ERCBH2S properly. [OGCR 8.003, 8.004; <i>Directive 071 3.2(2)</i>]
5.3.3.1	Failure to submit CSV batch report file from ERCBH2S. [OGCR 8.003, 8.004; <i>Directive 071 3.2(3)</i>]

5.4 Public and Local Authority Involvement

Manual #	Description
5.4.1.1	Failure to carry out public and local authority notification and consultation and for situations outlined in table 8. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.1(1), 13.1</i>]
5.4.1.2	Failure to notify and or consult with those listed in table 3. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.3(8)</i>]
5.4.1.3	Failure to notify residents of urban centres. [OGCR 8.004, 8.005; <i>Directive 071 4.3(10)</i>]
5.4.2.1	Failure to include entire urban density development in public involvement program. [OGCR 8.004, 8.005; <i>Directive 071 4.2(3)</i>]
5.4.2.2	Failure to conduct public involvement program in accordance with section 4.3. [OGCR 8.004, 8.005; <i>Directive 071 4.3(9)</i>]
5.4.2.3	Failure to contact or provide information package to impacted parties. [OGCR 8.004, 8.005; <i>Directive 071 4.3(11)</i>]
5.4.2.4	Failure to develop and provide public information package to persons in table 3. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(12)</i>]
5.4.2.5	Failure to provide the requisite information in the public information package. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(13)</i>]
5.4.2.6	Failure to provide public information package to local AER field centre. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(14)</i>]
5.4.2.7	Failure to attempt to obtain personal information for ERP. [OGCR 8.004, 8.005; <i>Directive 071 4.4(15)</i>]
5.4.2.8	Failure to consider residents unwilling to provide personal information as having special needs. [OGCR 8.004, 8.005; <i>Directive 071 4.4(16)</i>]
5.4.2.9	Failure to identify all residents and local authorities within and adjacent to the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(2)</i>]
5.4.2.10	Failure to confirm and coordinate roles and responsibilities with local authorities, directors of emergency management for all municipalities and the health authority or applicable federal health branch. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(5)</i>]
5.4.3.1	Failure to contact appropriate urban director of emergency management. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(4)</i>]
5.4.3.2	Failure to confirm and coordinate roles and responsibilities with local authorities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(6)</i>]
5.4.3.3	Failure to attempt to reach a mutual understanding with local authorities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.3(7)</i>]
5.4.4.1	Failure to attempt to obtain the public involvement program information required in section 4.4 and incorporate it into ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.4(14)</i>]

5.5 Common Requirements for ERPs

Manual #	Description
5.5.1.1	Failure to include specific procedures for notification within EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.1(3)</i>]
5.5.10.1	Failure to have a listing of equipment. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.4(13)</i>]
5.5.11.1	Failure to include telephone list of all key internal personnel or external emergency support. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.6(14)</i>]
5.5.12.1	Failure to distribute copies of ERP or ERP supplement to those listed in appendix 5 within 10 days of approval. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(15), 7.3.3(11), 8.3.2(9), 9.3.1(7)</i>]

Manual #	Description
5.5.12.2	Failure to provide a copy of the ERP to a resident within EPZ upon written request. [OGCR 8.004, 8.005; <i>Directive 071</i> 5.7(160)]
5.5.12.3	Failure to ensure that all plan holders have a copy of the approved ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.7(17)]
5.5.12.4	Failure to ensure that a plan distribution list is included in the ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.7(18)]
5.5.13.1	Failure to have a bridging paragraph in the ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.8(20)]
5.5.14.1	Failure to identify roles and responsibilities of personnel or their names. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.9(21)]
5.5.15.1	Failure to have a process for recording the information for the activities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.11(23)]
5.5.16.1	Failure to include procedures to downgrade and stand down levels of emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.13(25)]
5.5.2.1	Failure to address how evacuation of the response zones will be accomplished. [OGCR 8.004, 8.005; <i>Directive 071</i> 5.2.2(4)]
5.5.3.1	Failure to address assistance with transportation needs or changes in normal notification procedures in evacuating public facilities. [OGCR 8.004, 8.005; <i>Directive 071</i> 5.2.2(5)]
5.5.4.1	Failure to include appropriate shelter in place instructions in public information package or ERP. [OGCR 8.004, 8.005; <i>Directive 071</i> 5.2.2(6)]
5.5.5.1	Failure to address how notification and evacuation will take place outside of the EPZ. [OGCR 8.004, 8.005; <i>Directive 071</i> 5.2.3(7)]
5.5.6.1	Failure to include ignition procedures and or ignition authority. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.2.4.1(8)]
5.5.6.2	Failure to include ignition policy [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.2.4.2(9)]
5.5.7.1	Failure to include isolation procedures [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.2.5(10)]
5.5.8.1	Failure to provide details surrounding activation or air quality monitoring [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 5.2.6(11)]
5.5.9.1	Failure to clearly identify specified information on the ERP map [OGCR 8.004, 8.005; <i>Directive 071</i> 5.3(12)]

5.6 Sour Well Site-Specific Drilling and/or Completion ERPs

Manual #	Description
5.6.1.1	Failure to submit for approval site specific drilling or completions ERP [OGCR 8.004, 8.005; <i>Directive 071</i> 6.1(1)]
5.6.2.1	Failure to ensure site-specific ERP addresses requirements in section 6.2 [OGCR 8.004, 8.005; <i>Directive 071</i> 6.2(2)]
5.6.3.1	Failure to ensure that critical sour well ERP addresses requirements in section 6.3 [OGCR 8.004, 8.005; <i>Directive 071</i> 6.3(3)]
5.6.4.1	Failure to ensure that non-critical sour well ERP addresses requirements in section 6.4 [OGCR 8.004, 8.005; <i>Directive 071</i> 6.4(4)]
5.6.5.1	Failure to leave all components of wellhead on the ERP is approved and on site [OGCR 8.004, 8.005; <i>Directive 071</i> 6.5(5)]

5.7 Sour Operations and HVP Cavern Storage ERPs

Manual #	Description
5.7.1.1	Failure to have an approved ERP in situations where required. [OGCR 8.004, 8.005, 8.006; <i>Directive 071</i> 7.1(1), 8.1(1), 9.1(1)]
5.7.1.2	Failure to have an ERP approved prior to commencement of operations. [<i>Directive 071</i> 7.1(2), 8.1(2), 9.1(2)]
5.7.2.1	Failure to address the requirements for ERP content. [OGCR 8.004, 8.005, 8.006; <i>Directive 071</i> 7.2(3), 8.2(3), 9.2(3)]

5.8 Supplements

Manual #	Description
5.8.1.1	Failure to submit the requisite information in the supplement to the Regulator. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(6), 8.3(4), 9.3(4)]
5.8.2.1	Failure to submit a supplement for review and approval. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(4), 8.3.1(5), 8.3.2(7), 9.3.1(5)]
5.8.3.1	Failure to conduct a public involvement program for all members of the public in the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(5), 7.3.1(7), 8.3.1(6), 8.3.2(8), 9.3.1(6)]
5.8.4.1	Failure to provide required plan holders with the approved supplement and copy of the current ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3.3(12), 8.3.3(10), 9.3.2(8)]
5.8.5.1	Failure to ensure that a copy of the approved sour operations ERP and supplement is on site during all drilling and completion operations. [OGCR 8.004, 8.005; <i>Directive 071</i> 7.3.1(8), 7.3.2(9)]
5.8.6.1	Failure to leave all components of the wellhead until the supplement has been approved and is on site. [OGCR 8.004, 8.005; <i>Directive 071</i> 7.3.2(9)]

5.9 Spill Response

Manual #	Description
5.9.1.1	Failure of a non-member of an oil spill cooperative to have an approved plan in place to address a release of liquid product onto land or water. [<i>Directive 071</i> 10.3.1(1)]
5.9.2.1	Failure of a non-member of an oil spill cooperative to meet spill response equipment requirements. [<i>Directive 071</i> 10.3.2(2)]

5.10 Implementation of Corporate ERPs

Manual #	Description
5.10.1.1	Failure to have an up-to-date copy of the ERP at a response location. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1(1)]
5.10.2.1	Failure to review the ERP assigned roles and responsibilities with personnel. [OGCR 8.004, 8.005; <i>Directive 071</i> 11.1(2)]
5.10.3.1	Failure to use the assessment matrix to classify and incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.1(3), 14.2(2)]
5.10.4.1	Failure to take appropriate actions including public protection measures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.2.(3)]
5.10.5.1	Failure to contact the regulator after activating internal response resources to confirm level of emergency and specifics of incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.1(4), 14.2(4)]

Manual #	Description
5.10.6.1	Failure to contact local authorities or support services if a release has the potential to impact public or if the media has been contacted [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2(5)</i> , 14.5(18)]
5.10.7.1	Failure to provide the information in appendix 8 to the public as soon as possible during an incident [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2(6)</i> , 14.5(19)]
5.10.8.1	Failure to consult with the regulator prior to making the decision to downgrade or stand-down an emergency [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2.1(7)</i> , 14.5.1(20)]
5.10.9.1	Failure to keep all affected persons and the media informed of the status of an emergency [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2.1(8)</i> , 14.5.1(21)]

5.11 Implementation of Emergency Planning and Response Zones

Manual #	Description
5.11.1.1	Failure to ensure that on site supervisory personnel are aware of the size of the EPZ [OGCR 8.004, 8.005; <i>Directive 071 12.1(1)</i>]
5.11.2.1	Failure to attempt to evacuate residents from the IIZ if safe to do so [OGCR 8.004, 8.005; <i>Directive 071 12.3.1</i>]

5.12 Implementation of Public and Local Authority Involvement

Manual #	Description
5.12.1.1	Failure to carry out public and local authority notification and consultation for situations outlined in table 8 [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 13.1(1)</i>]
5.12.2.1	Failure to attempt to evacuate residents from the IIZ, where safe to do so. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 12.2.1(2)</i>]

5.13 Implementation for Common Requirements of ERPs

Manual #	Description
5.13.1.1	Failure to have an up-to-date copy of the ERP available at a response location [OGCR 8.004, 8.005; <i>Directive 071 14.1(1)</i>]
5.13.2.1	Failure to carry out the notification requirements within the EPZ [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.1(5)</i> , (6)]
5.13.3.1	Failure to advise the public within the EPZ of the appropriate public protection measures [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.1(7)</i>]
5.13.4.1	Failure to assess and act on the need to expand the evacuation area as dictated by the specifics of the incident [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.3(8)</i>]
5.13.5.1	Failure to comply with ignition criteria outlined in section 14 [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.6.1(9)</i> , 14.3.6.2(11)]
5.13.5.2	Failure to take into account the specified factors when making the decision to ignite [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.6.2(10)</i>]
5.13.6.1	Failure to ensure manned roadblocks are in place [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.7(12)</i>]
5.13.7.1	Failure to meet the air quality monitoring requirements for critical sour wells [OGCR 8.004, 8.005; <i>Directive 071 14.3.8.1(13)</i>]
5.13.8.1	Failure to meet the air quality monitoring requirements for non-critical sour wells [OGCR 8.004, 8.005; <i>Directive 071 14.3.8.1(14)</i>]
5.13.9.1	Failure to investigate the source of a release or send out monitoring units [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.8.2(15)</i>]

Manual #	Description
5.13.10.1	Failure to ensure that equipment identified in ERP is available and located where specified [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.4(16)</i>]
5.13.11.1	Failure to ensure that company equipment is operational and calibrated [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.4(17)</i>]
5.13.12.1	Failure to demonstrate the plan management system ensures up-to-date ERPs [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.6(22)</i>]
5.13.13.1	Failure to conduct a public awareness program every second year with residents within the EPZ. [<i>Directive 071 14.6(23)</i>]
5.13.14.1	Failure to distribute changes that are instrumental in implementing ERP [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.6(24)</i>]
5.13.15.1	Failure to correct errors identified by stakeholders [OGCR 8.004, 8.005; <i>Directive 071 14.6(25)</i>]
5.13.16.1	Failure to activate reception centre in appropriate locate or meet and register evacuees [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.8(26)</i>]
5.13.17.1	Failure to provide training sessions to ensure response personnel competency [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.9(27)</i>]
5.13.18.1	Failure to test the ERP through tabletop or major exercises [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(28)</i>]
5.13.19.1	Failure to notify the appropriate AER field centre 30 days in advance of a scheduled exercise [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(29)</i>]
5.13.19.2	Failure to invite other government agencies to participate and or observe at major exercises [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(29)</i>]
5.13.20.1	Failure to have process for recording the information for the activities in section 14.11 [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 17.11(30)</i>]
5.13.21.1	Failure of the new licensee to contact the regulator within 30 days of the transfer of licence [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.12(31)</i>]
5.13.22.1	Failure to ensure that the emergency response procedures in place will not be compromised prior to approval of new ERP [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.12(32)</i>]

5.14 Implementation of Sour Well Site-Specific Drilling and/or Completion ERPs

Manual #	Description
5.14.1.1	Failure to conduct a meeting prior to entering first sour zone [OGCR 8.004, 8.005; <i>Directive 071 15.1(1)</i>]
5.14.2.1	Failure to conduct a critical sour meeting prior to entering the critical sour zone [OGCR 8.004, 8.005; <i>Directive 071 15.1(2)</i>]
5.14.3.1	Failure to advise the regulator in advance or pre sour or critical sour meeting [OGCR 8.004, 8.005; <i>Directive 071 15.1(3)</i>]
5.14.4.1	Failure to provide prior notice to local authority of critical sour zone meeting [OGCR 8.004, 8.005; <i>Directive 071 15.1(4)</i>]
5.14.5.1	Failure to ensure critical sour zone equipment is located as specified prior to entering zone [OGCR 8.004, 8.005; <i>Directive 071 15.2.1(5)</i>]
5.14.6.1	Failure to ensure the equipment identified in ERP is located where specified prior to operation [OGCR 8.004, 8.005; <i>Directive 071 15.2.1(6)</i>]

5.15 Implementation of Spill Response Plans

Manual #	Description
5.15.1.1	Failure of a member of oil spill cooperative to attend a training exercise or complete a spill responder course [OGCR 8.006, <i>Directive 071</i> 16.1.1(1)]
5.15.2.1	Failure of a non-member of an oil spill cooperative to conduct exercise [OGCR 8.006, 8.052; <i>Directive 071</i> 16.2.1(4)]
5.15.3.1	Failure of a non-member of an oil spill cooperative to demonstrate the same competencies as an oil spill cooperative member [OGCR 8.006, 8.052 <i>Directive 071</i> 16.2.1(5)]
5.15.4.1	Failure to ensure good standing with an oil spill cooperative as required by <i>Directive 071</i> . [OGCR 8.006, 8.052; <i>Directive 071</i>]

5.16 24-hour Emergency Number

Manual #	Description
5.16.1.1	Failure to ensure 24-hour emergency number initiates immediate action [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 4.3.1, 7.2, 8.2 and 9.2]

5.17 ERPs Pre-April 8, 2008

Manual #	Description
5.17.1.1	ERP manual not updated yearly, exercises not conducted, or details not documented (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 4.2.2, 4.14; <i>Bulletin 2008-15</i> 2.2]
5.17.2.1	Operator not communicating with residents in the emergency planning zone (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 2.2.1; <i>Bulletin 2008-15</i> 2.2]
5.17.3.1	Copy of ERP not readily available (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 4.2.2; <i>Bulletin 2008-15</i> 2.2]

6 Directive 084

6.1 ERPs

Manual #	Description
6.1.1.1	Failure to have a corporate-level ERP. [<i>Directive 071</i> 2.1(1)]
6.1.2.1	Corporate ERP not on site. [<i>Directive 058</i> 6.6(99)]
6.1.3.1	Failure to ensure that a call to the licensee 24-hour emergency telephone number initiates immediate action. [<i>Directive 071</i> 2.1(3)]
6.1.4.1	Failure to ensure that the licensee 24-hour emergency telephone number is posted by way of a conspicuous sign erected at the entrance to all licensee well and facility operations. [<i>Directive 071</i> 2.1(4)]

50 Public Lands Act

50 General

Manual #	Description
50.1.1.1	Unauthorized Use - No approval or disposition associated with disturbance or use of public land. [PLA 20(1), 47(1)(a)]
50.2.1.1	Unauthorized Use (Purpose) - Disposition being used for purpose other than for which it was approved. [PLA 20(1)(e), PLAR 173(1), approval]
50.4.1.1	Cuts / fills not re-contoured to a stable slope. [PLAR 173(1), approval]

Manual #	Description
50.5.1.1	Erosion on site not being controlled. [PLA 54(1)(f), PLAR 173(1), approval]
50.6.1.1	Timber not salvaged as per approval. [PLAR 173(1), approval]
50.8.1.1	Brush/debris disposal not completed as required by approval [PLAR 173(1), approval]
50.9.1.1	Waste material, debris, refuse, or garbage accumulating on site. [PLA 54(1)(a), PLAR 21(1)(h)]
50.11.1.1	Weeds not actively being managed. [PLA 63(b), PLAR 173(1), approval]
50.13.1.1	Prohibited species identified in approval used for re-vegetation. [PLAR 173(1), approval]
50.14.1.1	Operating within restricted time period identified in approval. [PLAR 173(1)]
50.15.1.1	Access control requirements outlined in approval not met. [PLAR 173(1)]

51 Water Management

Manual #	Description
51.1.1.1	Deleterious material deposited into, or onto the ice of, a water body or watercourse. [PLA 54(1)(e), PLAR 173(1), approval]
51.2.1.1	Unsatisfactory crossing of a permanent or fish-bearing watercourse. [PLA 54(1)(e)(f), PLAR 21(1)(j), approval]
51.3.1.1	Unsatisfactory crossing of an ephemeral or intermittent watercourse, wetland, cross-drain, or other non-fish-bearing water body. [PLA 54(1)(e)(f), PLAR 173(1), approval]
51.4.1.1	Crossing type not as per approval. [PLAR 173(1)]
51.5.1.1	Operation or infrastructure on disposition interfering with natural drainage, other than what has been approved. [PLA 54(1)(d)–(f)]
51.6.1.1	Disturbance to bed and shore of water bodies other than what is approved through approval. [(PLA 53(a), 54(e)]

52 Conservation and Reclamation

Manual #	Description
52.1.1.1	Proper soil conservation techniques not being used [PLAR 21(f), PLA 63(d), PLAR 173(1), approval]
52.2.1.1	Interim reclamation not implemented on disposition within required time frame. [Approval]

53 EAP Dispositions

Manual #	Description
53.1.1.1	Regulator not notified of entry within 72 hours. [PLAR 173(1)]
53.4.1.1.1	Class of road built is greater than maximum outlined in approval. [PLAR 173(1)]
53.5.1.1	Required wildlife survey not completed. [PLAR 173(1), approval]
53.6.1.1	Wildlife signage not installed as required. [PLAR 173(1), approval]
53.7.1.1	100m wildlife sweep not conducted appropriately prior to construction. [PLAR 173(1), approval]
53.10.1.1	Access to non-producing well off public grade road not closed to highway traffic within 1 year. [PLAR 173(1), approval]

59 Other

Manual #	Description
59.1.1.1	Other contravention of approval condition. [PLAR 173(1)]
59.2.1.1	Other contravention of act or regulation.

60 EPEA General

60.1 EPEA Releases

Manual #	Description
60.1.1.1	Failure to report a release as required. [EPEA 110(1)(2)]
60.1.2.1	Release notifications requirements not met. [EPEA 111(1); RRR 4]
60.1.3.1	Failure to take remedial action. [EPEA 112]

60.2 EPEA Waste Management

Manual #	Description
60.2.1.1	Waste not in appropriate container. [EPEA 176, 178]
60.2.2.1	Waste not disposed at approved waste management facility. [EPEA 176; WCR 13, 23]
60.2.3.1	Hazardous waste not disposed of in accordance with requirements. [EPEA 192]
60.2.4.1	Generation, storage, handling, transport, or acceptance of hazardous waste without personal identification number. [EPEA 188]
60.2.5.1	Hazardous waste handling not in accordance with manifesting requirements. [EPEA 191]
60.2.6.1	Hazardous waste manifest requirements not met. [WCR 7]
60.2.7.1	Hazardous waste mixed, diluted, or divided to avoid regulatory requirements. [WCR 16]
60.2.8.1	Hazardous waste or hazardous recyclable not characterized and/or classified. [WCR 3.1]
60.2.9.1	Hazardous recyclables sent to facility not authorized to accept it. [EPEA 169]
60.2.10.1	Hazardous recyclables not accompanied with recycle docket. [EPEA 169]
60.2.11.1	Hazardous recyclable recycle docket requirements not met. [WCR 19]

60.3 EPEA Storage

Manual #	Description
60.3.1.1	Hazardous substance not stored in a manner to prevent contact with plants, animals, food, or drink. [EPEA 155]
60.3.2.1	Hazardous waste not stored as per requirement. [WCR 11(1), (2)]
60.3.3.1	Hazardous waste stored without adequate labelling in accordance with requirements. [WCR 11(1)(d)]
60.3.4.1	Hazardous recyclable not stored as per requirements. [WCR 18(1), (2)]
60.3.5.1	Hazardous recyclable stored without adequate labelling in accordance with requirements. [WCR 18(1)(d)]

60.4 EPEA Other

Manual #	Description
60.6.1.1	Noncompliant with other EPEA item. (Not all compliance statements are referenced in the manual. Inspectors may use "other" to capture items not listed.)

61 EPEA Approval

61.1 Approval/Registration Requirements

Manual #	Description
61.1.1.1	No EPEA approval where required. [EPEA 61]
61.1.2.1	Change in activity, process, or equipment without amendment to approval. [EPEA 67]
61.1.3.1	Approval or registration not transferred. [EPEA 75]

61.2 Releases

Manual #	Description
61.2.1.1	Failure to report a release in excess of approval or registration requirements. [EPEA 108]

61.3 Records and Reporting

Manual #	Description
61.3.1.1	Approval reporting conditions not met. [EPEA 227E]
61.3.2.1	7 day report conditions not met as per approval. [EPEA 111, 227E]
61.3.4.1	Application/plans/proposals approval conditions not met. [EPEA 227E]
61.3.5.1	Monthly/annual/special/other report approval conditions not met. [EPEA 227E]
61.3.6.1	Notification approval conditions not met. [EPEA 227E]

61.4 Construction Equipment and Operations

Manual #	Description
61.4.4.1	Land conservation approval not met. [See specific approval; EPEA 227E]

61.5 Air Management

Manual #	Description
61.5.1.1	Analytical conditions not met. [See specific approval; EPEA 227E]
61.5.2.1	Air effluent limits exceeded. [See specific approval; EPEA 227E]
61.5.3.1	Air emission sources do not correspond to approval [See specific approval; EPEA 227E]
61.5.4.1	Equipment/systems conditions not met. [See specific approval; EPEA 227E]
61.5.5.1	Operating limit parameters/equipment downtime exceeded. [See specific approval; EPEA 227E]
61.5.6.1	Source monitoring conditions not met. [See specific approval; EPEA 227E]
61.5.7.1	Ambient monitoring conditions not met. [See specific approval; EPEA 227E]
61.5.8.1	Pollution abatement equipment conditions not met. [See specific approval; EPEA 227E]
61.5.9.1	Fugitive emissions not controlled in accordance with approval. [See specific approval; EPEA 227E]
61.5.11.1	Monthly/annual/other report conditions not met. [See specific approval; EPEA 227E]

61.6 Industrial Wastewater

Manual #	Description
61.6.1.1	Monitoring conditions not met. [See specific approval; EPEA 227E]
61.6.2.1	Storage approval conditions not met. [See specific approval; EPEA 227E]

Manual #	Description
61.6.3.1	Discharge/disposal conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.6.4.1	Action leakage rate limits/requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.6.5.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.6.7.1	Substance release/control system limits exceeded. [See specific approval; <i>EPEA 227E</i>]
61.6.8.1	Control system monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.6.9.1	Pollution minimization conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.6.11.1	Monthly/Annual/other Report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.7 Industrial Runoff

Manual #	Description
61.7.1.1	Monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.2.1	Storage conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.3.1	Discharge/disposal approval not met. [See specific approval; <i>EPEA 227E</i>]
61.7.4.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.6.1	Substance release/control system limits exceeded. [See specific approval; <i>EPEA 227E</i>]
61.7.7.1	Control system monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.8.1	Prior to release monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.10.1	Notification conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.11.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.8 Domestic Wastewater/Sanitary Sewage

Manual #	Description
61.8.2.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.8.4.1	Substance release limits exceeded. [See specific approval; <i>EPEA 227E</i>]
61.8.5.1	Untreated wastewater monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.8.6.1	Treated wastewater monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.8.9.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.9 Groundwater

Manual #	Description
61.9.2.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.9.3.1	Monitoring wells do not exist/placed inappropriately. [See specific approval; <i>EPEA 227E</i>]
61.9.4.1	Monitoring wells not locked/protected/repared as required. [See specific approval; <i>EPEA 227E</i>]
61.9.5.1	Groundwater monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.9.6.1	Groundwater remediation requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.9.8.1	Monthly/annual/other Report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.10 Soil/Land Management

Manual #	Description
61.10.2.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.10.3.1	Soil monitoring program conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.10.4.1	Soil management program conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.10.6.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.11 Waste Management

Manual #	Description
61.11.1.1	Waste not disposed at waste management facility. [<i>EPEA 176(a)</i> ; <i>227E</i>]
61.11.2.1	Sampling requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.11.3.1	Analytical requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.11.4.1	Waste classification/characterization conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.11.5.1	Generated waste not measured/estimated as per requirements. [See specific approval; <i>EPEA 227E</i>]
61.11.6.1	Daily waste inventory not conducted as per requirements. [See specific approval; <i>EPEA 227E</i>]
61.11.7.1	Storage requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.11.9.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.12 Approval Other

Manual #	Description
61.12.1.1	Noncompliant with approval requirements. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

61.13 Wildlife Plans

Manual #	Description
61.13.1.1	Failure to adhere to approved wildlife mitigation and monitoring plan [See specific approval; <i>EPEA 227E</i>]
61.13.2.1	Failure to adhere to approved caribou mitigation and monitoring Plan [See specific approval; <i>EPEA 227E</i>]

70 Water Act Approval

70.1 Approval Conditions

Manual #	Description
70.1.1.1	No <i>Water Act</i> approval obtained for activity. [<i>WA 36</i>]
70.1.2.1	Approval/plans/reports not retained, posted, produced as required. [See specific approval; <i>WA 39, 142(1)(e)</i>]
70.1.3.1	Contravention reporting/written report not submitted as required by approval. [See specific approval; <i>WA 142(1)(e)</i>]
70.1.4.1	Works conducted does not meet the approval activity description. [See specific approval; <i>WA 142(1)(e)</i>]
70.1.5.1	The activity is not undertaken as described in the approval plan(s)/report(s). [See specific approval; <i>WA 142(1)(e)</i>]
70.1.6.1	The activity is not undertaken as described in the approval particulars. [See specific approval; <i>WA 142(1)(e)</i>]
70.1.7.1	The activity is not undertaken to meet the siltation and erosion control requirements. [See specific approval; <i>WA 142(1)(e)</i>]

Manual #	Description
70.1.8.1	The activity does not meet the wetland compensation requirements as described in the approval. [See specific approval; WA 142(1)(e)]
70.1.9.1	Certificate of completion not completed as described in the approval. [See specific approval; WA 142(1)(e)]
70.1.10.1	Other (Unique condition/clause described in the approval that is not identified above). [See specific approval; WA 142(1)(e)]
70.1.11.1	Construction timing/methods or plans/reports/manuals/safety review submissions not completed as required in the approval. [See specific approval; WA 142(1)(e)]
70.1.12.1	Monitoring methodology or reporting do not meet requirements as required in the approval. [See specific approval; WA 142(1)(e)]

71 Water Wells

71.1 Approval Conditions

Manual #	Description
71.1.1.1	The class of approval is incorrect. [WWGSHES Directive 2.1; WA 142(1)(e)]
71.1.2.1	Drilling, saline groundwater and/or gas reports not conducted as required. [WWGSHES Directive 3.10; WA 142(1)(e)]
71.1.3.1	Water well site specifications do not meet the requirements. [WWGSHES Directive 3.1; WA 142(1)(e)]
71.1.4.1	Pumping equipment and/or venting specifications do not meet the requirements. [WWGSHES Directive 3.5; WA 142(1)(e)]
71.1.5.1	Flowing water wells, Maximum allowable flow of flowing water well and/or flow device does not meet the requirements. [WWGSHES Directive 3.8; WA 142(1)(e)]
71.1.6.1	Water well and/or pumping equipment disinfection does not meet the requirements. [WWGSHES Directive 3.6; WA 142(1)(e)]
71.1.7.1	Testing of water yield does not meet the requirements. [WWGSHES Directive 3.4; WA 142(1)(e)]
71.1.8.1	Water well reclamation does not meet the requirements. [WWGSHES Directive 3.7; WMR 66; WA 142(1)(e)]
71.1.9.1	Inactive water well requirements not met. [WMR 67; WA 142(1)(e)]
71.1.10.1	Reconditioning of water well requirements not met. [WWGSHES Directive 3.9; WA 142(1)(e)]
71.1.11.1	Security and well driller requirements not met. [WMR 70; WA 142(1)(e)]
71.1.12.1	Rig plate requirements not met. [WWGSHES Directive 2.2; WA 39(b), 142(1)(e)]
71.1.13.1	Water well construction methods do not meet the requirements. [WWGSHES Directive 3.2; WMR 68; WA 142(1)(e)]
71.1.14.1	Water well sediment protection does not meet the requirements. [WWGSHES Directive 3.3; WA 142(1)(e)]

72 Water Act Licence

72.1 Licence Conditions

Manual #	Description
72.1.1.1	No <i>Water Act</i> licence obtained for diversion. [WA 49(1)]
72.1.2.1	Contravention reporting / written reports not completed as described in the licence. [Licence condition; WA 142(1)(e)]

Manual #	Description
72.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
72.1.4.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
72.1.5.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(1)(e)]
72.1.6.1	Point of use not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.7.1	Diverting water for purpose other than described in the licence. [Licence condition; WMR 11; WA 142(1)(e)]
72.1.8.1	The works used to divert the water not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.9.1	Exceeded diversion limit/rate described in the licence. [Licence condition; WA 142(1)(e)]
72.1.10.1	Screen on pump intake not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.11.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.12.1	Measuring diversion source water and calibration requirements not completed as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.13.1	Monitoring frequencies not completed as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.14.1	In-stream objectives not met as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.15.1	Recording and reporting requirements not met as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.16.1	Water use reporting requirements not completed as described in the licence. [Licence condition]
72.1.17.1	Licensee did not investigate all written complaints as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.18.1	Licensee did not conduct/complete water sampling as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.19.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.20.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

73 Water Act Temporary Diversion Licence (TDL)

73.1 TDL Conditions

Manual #	Description
73.1.1.1	No temporary diversion licence obtained for activity. [WA 49, 142(1)(e)]
73.1.2.1	Contravention(s) not immediately reported. [Licence condition; WA 142(1)(e)]
73.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
73.1.4.1	Licence not kept at the point of diversion. [WA 65, 142(1)(e)]
73.1.5.1	Licence not kept in the vehicle that transports the water. [WA 65, 142(1)(e)]
73.1.6.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
73.1.7.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(e)]

73.1.8.1	Point of use not as described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.9.1	Diverting water for purpose other than described in the licence. [Licence condition; <i>WMR 11; WA 142(1)(e)</i>]
73.1.10.1	The works used to divert the water not as described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.11.1	Volume allowed exceeded. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.12.1	Rate of diversion greater than what was described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.13.1	Screen on pump intake not as described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.14.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.15.1	Total volume of water diverted on each occasion was not monitored /measured as described in licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.16.1	Recording and reporting requirements not met as described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.17.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; <i>WA 142(1)(e)</i>]
73.1.18.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; <i>WA 142(1)(e)</i>]

74 *Water Act* Codes of Practice

74.2 Watercourse Crossings

Manual #	Description
74.2.1.1	No <i>Water Act</i> Code of Practice obtained for activity. [<i>WMR Part 1(3)</i>]
74.2.2.1	Water course crossing activity requirements not met. [<i>COP 2; WMR Part 1(3)</i>]
74.2.3.1	Notice of activity requirements not met. [<i>COP 3, 4; WMR Part 1(3)</i>]
74.2.4.1	Emergency works requirements not met. [<i>COP 6; WMR Part 1(3)</i>]
74.2.5.1	Water course crossing work plans not prepared/followed/changed as required. [<i>COP 7, Sch. 2; WMR Part 1(3)</i>]
74.2.6.1	Class of water body not classified as per the requirements. [<i>COP 8; WMR Part 1(3)</i>]
74.2.7.1	Watercourse crossing types or replacements (except temporary crossings) requirements not met. [<i>COP 9,11, Sch. 2 & Sch.3; WMR Part 1(3)</i>]
74.2.8.1	Temporary crossings not constructed in accordance with applicable parts of Schedules 2 and 3 and the written specifications and recommendations of a qualified aquatic environment specialist. [<i>COP 10, Sch. 2 & Sch. 3; WMR Part 1(3)</i>]
74.2.9.1	Restricted activity periods not adhered to. [<i>COP 9, 11; WMR Part 1(3)</i>]
74.2.10.1	Certification of works requirements not met. [<i>COP 12; WMR Part 1(3)</i>]
74.2.11.1	Reporting requirements not met. [<i>COP 13 WMR Part 1(3)</i>]
74.2.12.1	Records not created, compiled, and retained as required. [<i>COP 14; WMR Part 1(3)</i>]
74.2.13.1	Compliance monitoring (over crossing lifespan) not completed in accordance with the prepared plan. [<i>COP S.15, S.7; WA 142(1)(e); WMR Part 1(3)</i>]

75 Water (Ministerial) Regulation

75.2 Dam and Canal Safety Part 6

Manual #	Description
75.2.1.1	The dam owner is not following the <i>Dam Safety Directive</i> . [WMR 28]
75.2.2.1	The dam owner has not ensured that the design and construction of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a) and DSD 5.14]
75.2.3.1	The dam owner has not ensured that the dam was operated in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.4.1	The dam owner has not ensured that the decommissioning, closure, and abandonment of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.5.1	The dam owner has not ensured that there is sufficient surveillance, maintenance, and repairs. [WMR 29(1)(c)]
75.2.6.1	The dam owner does not have a dam safety management plan. [WMR 29(1)(d) and DSD 4.1, 4.2]
75.2.7.1	The dam owner has not ensured that all safety deficiencies have been identified, tracked and managed until corrected. [WMR 29(1)(e) and DSD 4.5(1)]
75.2.8.1	The dam owner has not addressed all critical safety deficiencies in accordance with the <i>Dam Safety Directive</i> . [WMR 29(1)(f) and DSD 4.5(2)]
75.2.9.1	The dam owner has not exercised reasonable care and due diligence to risk factors that can increase the inherent risk of the approved dam. [WMR 29(2)]
75.2.20.1	The dam owner has not notified the director of hazardous condition, safety deficiency, potential safety hazard, major repairs, significant changes to operations or surveillance / inspection plans and outcomes in response to a hazardous condition. [WMR 33(1) and DSD 8.1]
75.2.21.1	The dam owner has not provided the requested information or resources as required to the Director. [WMR 33(2)]
75.2.22.1	The dam owner has not prepared or submitted a decommissioning closure abandonment plan. [WMR 34(1) and DSD 9.6]
75.2.23.1	The dam/canal owner shall not implement a plan referred to in subsection (1) unless the Director has confirmed in writing that the plan meets the criteria set out in the Safety Directive. [WMR 34(2) and DSD 9.9]
75.2.24.1	The dam owner has not conducted a consequence classification of the dam. [WMR 34.1(3) and DSD 3.1 and DSD 3.4]
75.2.25.1	The dam owner has not reported a change in the consequence classification to the Director. [WMR 34.1(5) and DSD 3.3 and DSD 3.4]
75.2.26.1	The dam owner has not conducted a systematic risk assessment in accordance with the <i>Dam Safety Directive</i> . [WMR 34.3 and DSD 5.22]
75.2.27.1	Noncompliant with other WMR item (specified in comments).

75.3 Dam and Canal Safety Directive

Manual #	Description
75.3.1.1	The owner has not submitted the required information for an application or authorization for a dam. [DSD 2.1, 2.2, 2.3]
75.3.2.1	The owner has not prepared or submitted a construction completion report as required. [DSD 5.17]
75.3.3.1	The owner has not undertaken an annual engineering inspection as required. [DSD 5.19]
75.3.4.1	The owner has not undertaken an annual performance review as required. [DSD 5.20]

Manual #	Description
75.3.5.1	The owner has not undertaken a dam safety review as required. [DSD 5.21(1)]
75.3.6.1	The owner has not held an orientation workshop, emergency drill, or conducted an exercise as required. [DSD 7.4]
75.3.7.1	The owner has not developed a cessation / resumption plan as required. [DSD 9.1(1)]
75.3.8.1	The owner has not notified the Director of the cessation / resumption as required. [DSD 9.2(1), (2)]
75.3.9.1	The owner has not submitted the post implementation report. [DSD 9.5]
75.3.10.1	The owner has not notified the Director of deviation from the accepted decommissioning, abandonment, closure plan. [DSD 9.9]
75.3.11.1	The owner has not submitted the completion report of decommissioning, closure, and abandonment of a dam. [DSD 9.10]
75.3.12.1	Noncompliant with other DSD item (specified in comments).

99 Other

99.1 Other

Manual #	Description
99.1.1.1	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
99.1.1.2	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
99.1.1.3	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

B Oil Facility

1 Equipment

1.1 Gas Measurement Operations

Manual #	Description
1.1.1.1	No gas delivery point (sales) measurement. [Directive 017 1.7.2(i), 4.1, 9.3]
1.1.2.1	Produced gas (plant inlet, total battery/group gas) not metered. [Directive 017 1.7.1(ii), 1.7.2(iii), 4.1, 4.2, 5.5, 7.1.1, 12.3.3]
1.1.3.1	Flared/vented gas not measured. [Directive 017 4.1, 4.3.3.1(10), 4.3.5.1, 4.3.5.2, 12.2.2]
1.1.4.1	Fuel gas not measured. [Directive 017 4.1, 4.2.2, 4.3.5.2, 12.2.2]
1.1.5.1	Design, installation, and operation of measurement system is not in accordance with requirements. [Directive 017 4.3.1, 4.3.4, 4.3.5]
1.1.6.1	Meter not calibrated/proved since installation, following repairs, or calibration/proving expired. [Directive 017 2.5.1, 2.5.2, 2.5.4]
1.1.7.1	Calibration procedures not in accordance with requirements. [Directive 017 2.5.1]
1.1.8.1	Gas meter internal components are unsatisfactory. [Directive 017 2.5.2, 4.3.1]
1.1.9.1	Gas meter internal components not checked in accordance with requirements. [Directive 017 2.5.2, 12.3.11]

Manual #	Description
1.1.10.1	Flowing gas temperature not determined in accordance with the requirements. [Directive 017 4.3.1]
1.1.11.1	Sensing lines between orifice meter and recording device not designed in accordance with requirements. [Directive 017 4.3.4.1]
1.1.12.1	Chart recorder not suitably winterized to prevent sensing lines and other piping from freezing and disrupting measurement. [Directive 017 4.3.4.1]
1.1.13.1	Improper chart drive speed/inappropriate use of multiday charts. [Directive 017 4.3.1, 5.3, 6.5, 7.3.1, 7.4.1]
1.1.14.1	Heavy oil and crude bitumen gas production not tested in accordance with the requirements. [Directive 017 12.2.2.1]

1.2 Gas Measurement Administration

Manual #	Description
1.2.1.1	Produced gas not estimated in accordance with the requirements [Directive 017 4.3.5]
1.2.2.1	Gas production not reported to Petrinex. [OGCR 12.030(1); Directive 007 2.3]
1.2.3.1	Gas production determined using measurement by difference practices that are not in accordance with requirements. [Directive 017 5.5]
1.2.4.1	Flared/vented gas not reported to Petrinex. [OGCR 12.030(1); Directive 007 2.3; Directive 017 4.2.2, 4.3.3.1(4), (5)]
1.2.5.1	Fuel gas not reported to Petrinex. [OGCR 12.030(1); Directive 007 2.3; Directive 017 4.3.3.1(4), (5), (7), (9)]
1.2.6.1	Measurement not in accordance with approval. [Directive 017 5, 5.1, 5.2; see specific approval]
1.2.7.1	Meter calibration/proving tag or detailed report does not meet requirements. [Directive 017 2.3 Exceptions (1), 2.5.2, 2.5.2(2), (3), (4), 2.5.3, 2.5.4]
1.2.8.1	Incorrect or insufficient information recorded on chart. [Directive 017 4.3.3.1(2), 4.3.4.2]

1.3 Hydrocarbon Liquids Measurement Operations.

Manual #	Description
1.3.1.1	No hydrocarbon liquid delivery point measurement. [Directive 017 1.7.2(ii), 9.3, 10.1, 10.2, 10.3, 13.2.1]
1.3.2.1	Metering system not designed, installed, or operated as required. [Directive 017 2.6(1), 2.8.1, 2.8.2, 6.3.1, 13.2.1]
1.3.3.1	Meter installed downstream of snap-acting dump valve. [Directive 017 2.6(1), 2.8.1, 2.8.2, 2.9, 12.2, 13.2.1]
1.3.4.1	Measurement device not calibrated/proved since installation, following repairs, or calibration/proving expired. [Directive 017 2.6, 2.8.1, 2.8.2, 2.9, 2.12, 2.13, 2.14, 13.2.1]
1.3.5.1	Prover tap size or location not in accordance with requirements. [Directive 017 2.6(2), 12.2, 13.2.1]
1.3.6.1	Procedures for the proving/calibration of measurement device/system are not in accordance with requirements. [Directive 017 2.6, 2.7, 2.8, 2.9, 2.11, 2.12, 2.13, 12.2, 13.2.1]
1.3.7.1	Tank gauging not in accordance with requirements. [Directive 017 10.5.1, 12.2.4, 13.2.1, 14.7, 14.7.3, 14.7.4, 14.7.5]
1.3.8.1	No test oil measurement. [OGCR 7.020; Directive 017 6.5, 12.3]
1.3.9.1	Wells within an oil proration battery not tested at required frequency. [OGCR 7.030; Directive 017 6.4.4, table 6.1, 12.3.9]

1.4 Hydrocarbon Liquids Measurement Administration

Manual #	Description
1.4.1.1	Hydrocarbon liquid production not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007</i> 2.3]
1.4.2.1	Measurement device calibration/proving tag or detailed report does not meet requirements. [<i>Directive 017</i> 2.6(10), (11), (Exemptions 1–3), 2.7.1(2), 2.12, 2.13.2, 2.14, 12.2, 13.2.1]

1.5 Water/Other Measurement Operations

Manual #	Description
1.5.1.1	No water production measurement. [<i>Directive 017</i> 6.1, 6.2.2.1, 7.1.1, 7.2.1, 7.3, 7.3.1, 7.3.3, 7.4, 7.4.1, 7.4.3, 12.1.5, 15.2.1]
1.5.2.1	No measurement of injected/disposed water or other substance(s). [OGCR 14.200; <i>Directive 017</i> (1.7.3(ii)(iv), 12.1.5, 15.2.4, 15.2.8)]
1.5.3.1	Meter or product analyzer not installed in accordance with the requirements. [<i>Directive 017</i> 2.6, 14.6, 14.8.1]
1.5.4.1	Water meter not proved since installation, following repairs, or meter proving has expired. [<i>Directive 017</i> 2.6, 2.10]
1.5.5.1	Product analyzer calibration expired. [<i>Directive 017</i> 2.11]
1.5.6.1	No continuous proportional sampler or product analyzer where water cut is >10 per cent, or the sampler/analyzer is inoperable. [<i>Directive 017</i> 14.8.1]

1.6 Water/Other Measurement Administration

Manual #	Description
1.6.1.1	Water production not reported to Petrinex [OGCR 12.030(1); <i>Directive 007</i> (2.3), <i>Directive 017</i> (15)]
1.6.2.1	Injection or disposition of water/other substance not reported to Petrinex [OGCR 12.030(1); <i>Directive 007</i> (2.3)]
1.6.3.1	Measurement device calibration/proving tag/detailed report not attached or does not meet requirements. [<i>Directive 017</i> (2.6(10), (11), Exemptions (1), 2.10)]
1.6.4.1	Product analyzer tag/detailed report does not meet requirements. [<i>Directive 017</i> (2.11)]

1.7 Spacing Operations

Manual #	Description
1.7.1.1	Flare stack or incinerator less than 100 metres from an occupied residence. [OGCR 8.080(3); <i>Directive 060</i> 7.8(3)]
1.7.2.1	Flare stack, or incinerator less than 25 metres, or enclosed combustors less than 10 metres, from oil or gas processing equipment. [OGCR 8.080(5); <i>Directive 060</i> 7.8(1)(c), 7.8(2)(c)]
1.7.3.1	Flare stack, or incinerator less than 50 metres, or enclosed combustors less than 10 metres, from a well or oil storage tank. [OGCR 8.080(5); <i>Directive 060</i> 7.8(1)(a)(b), 7.8(2)(a)(b)]
1.7.4.1	Flare pit, flare stack, or incinerator less than 100 metres from a surface improvement, except surveyed roadway or road allowance. [OGCR 8.080(3); <i>Directive 060</i> 7.8(3)]
1.7.5.1	Flare or incinerator less than 40 metres to a public roadway. [OGCR 8.080(3); <i>Directive 060</i> 7.8(3), footnote 18]
1.7.6.1	Flame type equipment placed or operated within 25 metres of a process vessel without adequate flame arrester. [OGCR 8.090(5), (8)]

Manual #	Description
1.7.7.1	Flame type equipment within 25 metres of a well, oil storage tank, or other source of ignitable vapour. [OGCR 8.090(4)]
1.7.8.1	Ventilation requirements not met for flame type equipment within the same building as a process vessel or source of ignitable vapour. [OGCR 8.090(6)]
1.7.9.1	Fire within 50 metres of a well, oil storage tank, or other source of ignitable vapour (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(2)]
1.7.10.1	Smoking within 25 metres of a well, separator, oil storage tank, or other source of ignitable vapour. [OGCR 8.120(1)]
1.7.11.1	Outer perimeter of tank dike to surface improvement (other than public roadway) less than 60 metres. [OGCR 8.030(4)]
1.7.12.1	Oil storage tank(s) to well less than 50 metres (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(3); <i>Interim Directive (ID) 91-03 4.1(1)</i>]
1.7.13.1	Internal combustion engine exhaust within 25 metres of a well, process vessel, oil storage tank, or source of ignitable vapours, not constructed to prevent flame emergence. [OGCR 8.090(9)(a)]
1.7.14.1	End of exhaust pipe from internal combustion engine is located within 6 metres of the well and/or is not directed away from the well (1 metre for heavy oil production). [OGCR 8.090(9)(b)]

1.8 Flaring, Incinerating, and Venting Operations

Manual #	Description
1.8.1.1	No flare or incinerator stack where one is required. [OGCR 7.060(1)–(3), 7.070(1), (3), (5), (6)]
1.8.2.1	Operating procedures and/or automatic shutdowns not in place where needed to control sour/acid gas flaring events. [Directive 060 7.5(3)]
1.8.3.1	Failure to meet solution gas reduction requirements during planned shutdowns and emergency events. [Directive 060 2.11.1(1), (2), table 1, 5.2(4)]
1.8.4.1	Stack height or design does not meet requirements. [OGCR 7.060(4)(a), (7), 7.070(5), (6); Directive 060 (7.4)]
1.8.5.1	Pilot/ignition device(s) not available/operable where required. [OGCR 7.060(4)(c), 7.070(5); Directive 060 7.3, 7.3.1(1), appendix 11]
1.8.6.1	Insufficient heating value available to flare. [Directive 060 7.1.1(1)]
1.8.7.1	No wind guard on gas sour/acid flare when exit velocity is not sufficient. [OGCR 7.060(4)(b), 7.070(5)]
1.8.8.1	No flame arrester, equivalent safety device, or appropriate engineering and operating practices to prevent backflash where required. [OGCR 8.090(7); Directive 060 7.7, (8.7(6))]
1.8.9.1	No knockout drum or flare separator where required. [OGCR 7.060(4)(d), 7.070(5); Directive 060 7.6(1), 7.6.1, 8.7(3)(b)]
1.8.10.1	Knockout drum and/or flare separator controls, equipment, or design, does not meet requirements. [Directive 060 7.6, 7.6.1]
1.8.11.1	Exposed flame from an incinerator. [Directive 060 7.1.2 (1)(a), (7.4(1)(a))]
1.8.12.1	Insufficient exit temperature, no automatic temperature shutdown, or no process temperature control and recording where required for incinerators. [Directive 060 7.1.2 (2)–(4)]
1.8.15.1	Flare pit not decommissioned by December 31, 2015, without exemption. [OGCR 8.080(4); Directive 060 7.11]
1.8.16.1	Routine flaring, incinerating, or venting solution gas from an oil/bitumen battery with a GOR greater than 3000 m ³ /m ³ . [Directive 060 2.6(1)(b)]

Manual #	Description
1.8.17.1	Total venting (routine and nonroutine) at a site is $>15.0 \times 10^3 \text{ m}^3/\text{month}$ or $>9.0 \times 10^3 \text{ kg}$ of methane/month [Directive 060 8.3(1)]
1.8.18.1	Compressor testing points are not accessible or clearly identified [Directive 060 8.6.2.1(3)]
1.8.19.1	Level controllers are not designed to minimize venting. [Directive 060 8.6.1(3)]
1.8.20.1	Non-level controllers are not designed to minimize venting. [Directive 060 8.6.1(4)]
1.8.21.1	Reciprocating compressor is exceeding vent rate. [Directive 060 8.6.2.2 (3)]
1.8.22.1	Centrifugal compressor is exceeding vent rate. [Directive 060 8.6.2.3 (2)]
1.8.23.1	Glycol dehydrator is exceeding methane emissions limit. [Directive 060 8.6.3(2)]

1.9 Flaring, Incinerating, and Venting Administration

Manual #	Description
1.9.1.1	Failure to conduct dispersion modelling for flaring or incinerating gas with greater than $10 \text{ mol/kmol H}_2\text{S}$ or 1 tonne per day of sulphur. [Directive 060 7.12(1), (2), 7.12.5(1)]
1.9.2.1	Decision tree or economic evaluation not completed or results not implemented for new, existing, and temporary flares, incinerators, and vents as required. [Directive 060 2.3 (figure 2), 2.5, 2.6, 2.9, 3.1(1), (2), (figure 3), 4.1(5), (figure 5), 5.1 (figure 6), 6.1 (figure 7), 7.11(5)]
1.9.3.1	Failure to keep flaring, incinerating, and venting logs as required. [Directive 060 5.3(3), 5.5(4), 10.1(1)(b)–(e), (2)]
1.9.4.1	Flaring or incinerating sour gas containing more than $50 \text{ mol/kmol H}_2\text{S}$ without a permit where required. [OGCR 7.055; Directive 060 3.3.1(1, 3.3.2(2)–(4)]
1.9.5.1	Failure to comply with any condition of flaring permit or approval (temporary permits, volume allowance threshold exceedance permits, and blanket permits). [Directive 060 3.3]
1.9.6.1	Failure to notify the appropriate AER field centre of flaring, incinerating, or venting events as required. [Directive 060 2.10(1), 2.11.1(4), 3.8(2), 4.2, 5.4, 6.4(1)–(3), table 1, table 2]
1.9.7.1	No resident notification and/or consultation. [Directive 060 2.6(7)(c), (7)(d), 2.10(1), 2.11.1(4), 3.8(1), (4)–(7), 4.2(1), 5.4, 6.4(1), table 1, table 2]
1.9.8.1	Public information packages or resident notification information do not meet the requirements. [Directive 060 2.10.1, 3.8(4), (5)]

1.10 Signs and Security Operations

Manual #	Description
1.10.1.1	Improper identification sign, sign not posted, improper warning symbol, or no warning symbol posted adjacent to all entrances to the developed area of the facility. [OGCR 6.020(3), (5), (7)–(13), Schedule 12; Directive 055 2.6]
1.10.2.1	No or inadequate fence or alternative security measures where required. [OGCR 8.170, 8.171]

1.11 Emergency Controls and Relief Systems Operations

Manual #	Description
1.11.1.1	Operating gas catalytic heater with inoperable safety shut off. [OGCR 8.090(8); Occupational Health and Safety Regulation, Part 1, 12(1)]
1.11.2.1	No high level and high pressure shutdown device installed on a separator, treater, or other pressure vessel which receives production from an oil well containing more than $10 \text{ mol/kmol H}_2\text{S}$. [OGCR 7.060(3.1)]
1.11.3.1	No or inadequate/inappropriate pop tank or alternate conditions not adhered to. [OGCR 8.031]

1.13 Measurement General

Manual #	Description
1.13.1.1	Measurement schematic not created, retained, or master copy not updated annually to reflect changes or deletions or confirming no change. [<i>Directive 017</i> 1.9.1, 1.9.2]
1.13.2.1	Reporting of all activities, products, volumes, and product movements submitted to Petrinex not accurate. [<i>Directive 007</i> 2.1.3(8), 2.1.4(10), 2.3(27)]

2 Storage

2.1 Pre-1996 AST and UST Exemptions

Manual #	Description
2.1.1.1	Tank farm area reconstruction does not meet requirements. [<i>Directive 055</i> 1.6.3(1)]
2.1.2.1	AST holding materials other than fresh water does not meet pre-96 dike requirements. [<i>Directive 055</i> 1.6.3(2)]
2.1.3.1	Single-walled aboveground storage tank $\geq 5\text{m}^3$ mechanical integrity not appropriately verified within the past five years. [<i>Directive 055</i> 1.6.3(3)]
2.1.4.1	Single-walled underground storage tank mechanical integrity not appropriately verified within past three years. [<i>Directive 055</i> 1.6.3(3)]
2.1.5.1	AST replacement or addition does not meet requirements. [<i>Directive 055</i> 1.6.3(5), 1.6.3(6)]
2.1.6.1	UST that failed mechanical integrity test still in service. [<i>Directive 055</i> 1.6.3(8)]

2.2 General

Manual #	Description
2.2.1.1	No notification as required by <i>Directive 055</i> . [<i>Directive 055</i> 2.1.1(13), 2.1.2(14), 3.4(50), 4.5(171)(c)]
2.2.2.1	Alternative storage method, system, device, or location without AER approval. [OGCR 8.030(3); <i>Directive 055</i> 2.1.3(16), 2.5(21), 2.5(22), 3.4(51), 3.7(67), 3.8(94)]
2.2.3.1	Storage exceeds one year duration. [<i>Directive 055</i> 2.4(19)]
2.2.4.1	Alternative water volume withdrawn within 12 months not equal or greater than the volume going into the storage device. [<i>Directive 055</i> 2.4(20)]
2.2.5.1	Storage systems and/or associated equipment do not meet spacing requirements specified in <i>Directive 055</i> . [<i>Directive 055</i> 2.6(23), 4.2.1(145)]
2.2.6.1	Concrete being used as primary containment. [<i>Directive 055</i> 1.6.4(9), 1.6.4(10), 1.6.4(11), 3(26), 3.6(58)]
2.2.7.1	Storage system differential settlement, freeze-thaw cycles, subgrade movement (including sinking, low spots, slumping, sloughing), or slope instability due to inadequate civil works. [<i>Directive 055</i> 4.6(173)]
2.2.8.1	Waste processing conducted in storage system. [<i>Directive 055</i> 5.5(190)]
2.2.9.1	Hydraulic fracturing operations storing non-water-based fluids, fluids containing hydrocarbons, or fluids containing H_2S in storage device. [<i>Directive 055</i> 5.5(190)]
2.2.10.1	Hydraulic fracturing operations did not direct fluids to a tank, or series of tanks, or other equipment prior to receiving flowback in the storage system. [<i>Directive 055</i> 5.5(191)]

2.3 Containers (Device Specific)

Manual #	Description
2.3.1.1	On-site volume of containers exceeds 1 m ³ without secondary containment. [<i>Directive 055 3.1(27)</i>]
2.3.2.1	Secondary containment for container(s) does not meet requirements. [<i>Directive 055 3.1(28)(a)(b)(c)</i>]
2.3.3.1	Container storage in trailers or buildings does not meet requirements. [<i>Directive 055 3.1(28)(d)(e)(f)</i>]
2.3.4.1	No or inadequate weather protection for containers. [<i>Directive 055 3.1(29)</i>]

2.4 AST/UST (Device Specific)

Manual #	Description
2.4.1.1	No secondary containment for open-topped tank where required. [<i>Directive 055 3.2(33)</i>]
2.4.2.1	Aboveground storage tank not constructed, designed, or operated as required. [<i>Directive 055 3.2(30), 3.2(37), 3.2(38)</i>]
2.4.3.1	Open-topped tank mechanical integrity not appropriately verified within the past five years. [<i>Directive 055 3.2(35)</i>]
2.4.4.1	Tank foundation and supports does not meet requirements. [<i>Directive 055 3.2(33)</i>]
2.4.5.1	Underground storage tank not constructed or operated appropriately. [<i>Directive 055 3.3(40), 3.3(41), 3.3(44), 5.1(177)</i>]
2.4.6.1	Flare/incinerator knockout or separator integrity testing does not meet requirements. [<i>Directive 055 3.3(42), 4.3.1</i>]
2.4.7.1	Newly installed UST and associated piping integrity testing not conducted. [<i>Directive 055 3.3(43)</i>]
2.4.8.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [<i>Directive 055 3.2(32)</i>]

2.5 BSF/LEE/Bulk Pad (Device Specific)

Manual #	Description
2.5.1.1	BSF not constructed, designed, or operated as required. [<i>Directive 055 3.4(45), 3.4(46), 3.4(49), 4.1.2(124)</i>]
2.5.2.1	BSF not tested for integrity prior to use. [<i>Directive 055 3.4(52)</i>]
2.5.3.1	LEE not constructed, designed, or operated as required. [<i>Directive 055 3.5(53), 3.5(54), 3.5(55)</i>]
2.5.4.1	Pre-2002 LEE integrity not appropriately verified within past three years. [<i>Directive 055 1.6.4(11)</i>]
2.5.5.1	Bulk pad not constructed of compacted clay, synthetic liner, concrete, or asphalt as required. [<i>Directive 055 3.6(56)</i>]
2.5.6.1	Bulk pad does not incorporate a leachate collection or leak detection system where required. [<i>Directive 055 3.6(56), 3.6(58)</i>]
2.5.7.1	Stockpiled materials causing spillage off the bulk pad. [<i>Directive 055 3.6(57)</i>]
2.5.8.1	Bulk pad storage area curb or slope to catchment device does not meet requirements. [<i>Directive 055 3.6(56)</i>]

2.6 AWSS (Device Specific)

Manual #	Description
2.6.1.1	AWSS synthetic liner does not provide a continuous impervious layer. [<i>Directive 055 3.7(60), 3.7(61)</i>]
2.6.2.1	AWSS not designed, located, or operated to prevent the likelihood of a release occurring or ensure the consequences of a release are minimized. [<i>Directive 055 3.7(59), 3.7.1.3(73)</i>]
2.6.3.1	Maximum capacity of any single AWSS exceeds 6600 m ³ . [<i>Directive 055 3.7.3(87)</i>]
2.6.4.1	Collective usable capacity of AWSSs on a site exceeds 30 000 m ³ . [<i>Directive 055 3.7.3(88)</i>]
2.6.5.1	Minimum freeboard not appropriate or not maintained. [<i>Directive 055 3.7.3(89), 3.7.3(90)(a)(b)(c)</i>]
2.6.6.1	No or inadequate site-specific response plan. [<i>Directive 055 3.7.4(93), 5.7(207)(c)</i>]
2.6.7.1	Failure to test the integrity of AWSS before putting it into service or integrity of AWSS not maintained. [<i>Directive 055 3.7.4(92), 3.7.4(91)</i>]

2.7 ECP (Device Specific)

Manual #	Description
2.7.1.1	ECP does not have primary and/or a secondary containment system as required. [<i>Directive 055 3.8(99)(a)(b)(c)</i>]
2.7.2.1	Minimum freeboard of 1 metre not maintained. [<i>Directive 055 3.8(105)</i>]
2.7.3.1	ECP containment system(s) contain punctures. [<i>Directive 055 3.8(101)</i>]
2.7.4.1	Primary containment damage not prevented during equipment placement and maintenance activities. [<i>Directive 055 3.8(102)</i>]
2.7.5.1	Groundwater or soil monitoring not implemented as required by <i>Directive 058</i> . [<i>Directive 055 3.8(99)(f)(g); Directive 058 6.4(74)</i>]
2.7.6.1	Leakage not measured weekly to determine the actual monthly leakage rate. [<i>Directive 055 4.5(166)</i>]
2.7.7.1	Collected leakage not managed appropriately. [<i>Directive 055 4.5(167)</i>]
2.7.8.1	Allowable action leakage rate not monitored or managed as required. [<i>Directive 055 4.5(170), 4.5(171)</i>]

2.8 Liners and Dikes (All Storage Systems)

Manual #	Description
2.8.1.1	No dike and/or impervious liner where required. [<i>Directive 055 3.2(39), 3.7.1.2(71), 3.7.1.3(75), 4.1(109), 4.2(132), 4.2(140)</i>]
2.8.2.1	Liner does not meet requirements. [<i>Directive 055 3.4(47), 3.7(62), 3.7.1.1(69), 3.7.1.2(70), 3.7.1.2(73), 3.7.1.3(75)(a), 4.1(107)–(109), 4.1.1.1(115), 4.1.2(121), 4.2(140), 4.2(141)</i>]
2.8.3.1	Liner not protected from damage, degradation, or unauthorized access. [<i>Directive 055 4.1(110), 4.1.1(114), 4.1.2(129)</i>]
2.8.4.1	Dike contains openings or not designed to contain fluids. [<i>Directive 055 4.2(133)(a)(b)(c)</i>]
2.8.5.1	AWSS dike not designed to withstand wave impact from storage device failure. [<i>Directive 055 4.2(134)</i>]
2.8.6.1	Diked area volumetric capacity does not meet requirements. [<i>Directive 055 4.2(135)–(137)</i>]
2.8.7.1	Dike and secondary containment area not maintained in good condition or kept free from weeds, debris, and extraneous combustible material. [<i>Directive 055 4.2(138)</i>]
2.8.8.1	Diked area not graded to a sump or low-lying area. [<i>Directive 055 4.2(142)</i>]

2.9 Temporary Storage Operations

Manual #	Description
2.9.1.1	No diking or 1 metre impervious berm for storage where diking is not optional, exceeds three months, or where combined storage capacity exceeds 3000 m ³ . [<i>Directive 055 4.2.2(146), 4.2.2(148)</i>]
2.9.2.1	Temporary storage duration exceeds one year. [<i>Directive 055 4.2.2(146), 4.2.2(150)</i>]
2.9.3.1	Contaminated materials or materials possessing the potential to leach stored directly on the ground. [<i>Directive 055 4.2.2(147)</i>]
2.9.4.1	Temporary storage area synthetic liner not minimum of 15 mil. [<i>Directive 055 4.2.2(149)(a)</i>]
2.9.5.1	Temporary storage area synthetic liner not extended over the dike or keyed into the outside of the dike. [<i>Directive 055 4.2.2(149)(a)</i>]
2.9.6.1	Leachate in temporary storage area not managed. [<i>Directive 055 4.2.2(149)(b)</i>]
2.9.7.1	Underlying soil not assessed for temporary storage area used more than three months. [<i>Directive 055 4.2.2(149)(c)</i>]

2.10 Leak Detection (All Storage Systems)

Manual #	Description
2.10.1.1	No leak detection where required. [<i>Directive 055 1.6.4(9), 1.6.4(11), 3.2(39), 3.6(58), 3.7.1.2(73), 3.7.1.3(75)(b)(c), 3.8(99)(e), 4.3.3(156), 4.3.7(163)</i>]
2.10.2.1	Monitoring or sampling of collected leak detection liquids does not meet <i>Directive 055</i> . [<i>Directive 055 1.6.3(4), 1.6.3(7), 1.6.4(10), 1.6.4(11), 3.2(31), 4.3.1(152), 4.3.1(153), 4.3.3(157), 4.3.4(158), 4.3.5(160), 4.3.6(162), 5.6(194)</i>]
2.10.3.1	Leak detection for storage devices within a diked area does not allow leakage to move preferentially through the layer to a collection area. [<i>Directive 055 4.3.2(155)</i>]
2.10.4.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [<i>Directive 055 5.2(32)</i>]

2.11 Operational Controls (All Storage Systems)

Manual #	Description
2.11.1.1	Loading and unloading area(s) not designed to contain leaks/spills. [<i>Directive 055 5.1(175)</i>]
2.11.2.1	Spill control or spill control device(s) not used or not adequate where required. [<i>Directive 055 3.2(39), 5.1(176), 5.1(180), 5.1(181)</i>]
2.11.3.1	Storage device not protected from damage. [<i>Directive 055 2.3(18)</i>]
2.11.4.1	Required measures not incorporated to prevent overfilling of tanks. [<i>Directive 055 5.1(178)</i>]
2.11.5.1	Double-walled AST not equipped with a valve as close as practical to the tank. [<i>Directive 055 5.1(179)</i>]
2.11.6.1	Terrestrial or bird control measures not implemented as required. [<i>Directive 055 5.2(182)(a), 5.2(182)(b)</i>]
2.11.7.1	Wildlife fatalities or wildlife contact not reported as required. [<i>Directive 055 5.2(182)(c)</i>]
2.11.8.1	Terrestrial or bird control measures not adequately monitored or adapted as required. [<i>Directive 055 5.2(183), 5.2(184)</i>]
2.11.9.1	Operational controls not in place to prevent unwanted microbial and biological growth that may cause noxious substances in storage system. [<i>Directive 055 5.3(185)</i>]

2.12 Withdrawal of Storage Devices from Service

Manual #	Description
2.12.1.1	A tank taken out of service is not appropriately isolated or maintained. [<i>Directive 055</i> 5.6(192), 5.6(193)]
2.12.2.1	Tank out of service 180 days or less not emptied or monthly fluid level not recorded. [<i>Directive 055</i> 5.6(194)]
2.12.3.1	Tank taken out of service greater than 180 days not clearly marked as empty and out of service. [<i>Directive 055</i> 5.6(195)]
2.12.4.1	Tank taken out of service greater than 180 days does not have all fluids/solids/gases removed. [<i>Directive 055</i> 5.6(195)]
2.12.5.1	Tank out of service greater than one year, not verified for integrity prior to putting it back in service. [<i>Directive 055</i> 5.6(196)]
2.12.6.1	Non-permanent storage device is not removed, suspended, or verified as required. [<i>Directive 055</i> 3.7(65), 5.6.1(198)]
2.12.7.1	Soil contamination assessment or confirmatory soil sampling not conducted as required. [<i>Directive 055</i> 1.6.4(12), 5.6(197), 5.6.2(199)–(202)]

2.13 Inspections and Documentation

Manual #	Description
2.13.1.1	Storage system inspections not conducted at least monthly as required. [<i>Directive 055</i> 3.2(34), 5.7(204)]
2.13.2.1	Storage device inspections, monitoring, or documentation does not meet requirements. [<i>Directive 055</i> 3.2 (32), 3.8(96), 4.2.1(144), 4.3(151), 4.3.1(154), 4.3.4(158), 5.7(206), 5.7(207)(a), 5.7(208), 5.8(211)]
2.13.3.1	No or inadequate storage device corrective actions as required. [<i>Directive 055</i> 1.6.4(12), 4.3.1(154), 5.7(205), 5.7(207)(b), 5.7(209)(d)]
2.13.4.1	Inventory records not maintained or retained on site or at the local field office for two years. [<i>Directive 055</i> 5.8(210)]
2.13.5.1	Required documentation not retained for a minimum of five years. [<i>Directive 055</i> 5.8(211)]

3 Environment

3.1 Emissions

Manual #	Description
3.1.1.1	H ₂ S emissions resulting in odours outside the lease boundary. [<i>Directive 060</i> 7.1(1), 8.8(1)–(3), 8.9]
3.1.2.1	Exceeding <i>Alberta Ambient Air Quality Objectives</i> . [<i>Directive 060</i> 3.3.2(2)(c), 7.1(1), 7.1.1(1), 7.4(3), 7.12(1), 7.12.2(4), 7.12.5(8), 8.7(3), 8.8(4), appendix 7(5)(b)]
3.1.3.1	Sour fluids transported via a non-pressurized tank truck or truck without suitable and functional emissions controls. [<i>Directive 060</i> 8.8(5)]
3.1.4.1	Venting and/or fugitive emissions resulting in offensive hydrocarbon odours outside the lease boundary. [<i>Directive 060</i> 8.8(3)]
3.1.5.1	Failure to meet the permissible sound level at the nearest or most impacted dwelling. [<i>Directive 038</i> 2.1(3), 2.2(9), 3.1(3), 4.4(22), 5.1(1), appendix 1]
3.1.6.1	Routine combustion of gases results in continuous or repeat black smoke emissions. [<i>OGCR</i> 7.040(1), 9.050(6)(d); <i>Directive 060</i> 7.1(2), 7.2(1)(a)]
3.1.7.1	Individual dehydrator(s) or site dehydrator benzene emissions over the limits. [<i>Directive 039</i> (3), (4)]

Manual #	Description
3.1.9.1	Noise complaint response/procedures not conducted in accordance with requirements. [Directive 038 4]
3.1.10.1	Failure to notify resident(s) within 750 metres of a dehydrator (for new, relocated, or existing glycol dehydrators). [Directive 039 2.2]
3.1.11.1	Dehydrator engineering and operations sheet (DEOS) not done, incomplete/inaccurate, and/or not posted. [Directive 039 5.1, 5.2]
3.1.12.1	Annual methane emission report is not accurate [Directive 039 (5.1 (40); Directive 060 8.2(1)(2), 8.4.1(1), 8.6.1.2(1), 8.6.2.4(1), 8.10.5(1)]
3.1.13.1	Fugitive emissions have not been repaired within the appropriate timeframe. [Directive 060 8.10.4(1)(2)]

3.2 Spills

Manual #	Description
3.2.1.1	Facility closer than 100 metres to the normal high water mark of a body of water or permanent stream without appropriate protective measures. [OGCR 8.060]
3.2.2.1	Spill or release not contained/cleaned up. [OGCR 8.050(1), 8.051(b)]
3.2.3.1	No notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140;]
3.2.4.1	Late notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140;]

3.3 Surface Water

Manual #	Description
3.3.1.1	Release criteria of collected surface water not met prior to release to adjacent lands. [Directive 055 4.2(143), 5.4(186), 5.4(187), 5.4(188)]
3.3.2.1	Site contouring does not prevent surface water collection on the ground immediately surrounding secondary containment system. [Directive 055 4.2(131)]
3.3.3.1	Surface water not prevented from collecting around an AWSS. [Directive 055 3.7(66)]
3.3.4.1	Collected surface waters discharged into a watercourses or water body. [Directive 055 5.4(189)]
3.3.5.1	Surface water that meets the surface discharge criteria disposed to injection/disposal well. [Directive 051 2.3]

3.4 Waste Management

Manual #	Description
3.4.1.1	Site not maintained in a clean condition. [OGCR 8.150(4)]
3.4.2.1	No AER approval where required for waste management activity [OGCA 39(1)(g); OGCR 8.150(2)(f), 8.150(3)(a), 8.152; Directive 058 5.0, 7.2(107), 7.2(108), 7.2(109), 7.3(113), 7.4(115), 7.5(126), 7.5(127), 7.6(130), 7.6.1(131), 7.6.2(142), 7.7(147), 9(163), 9.4(170), 9.10(183), 10.3(198)]
3.4.3.1	Waste management activity AER approval condition not met. [OGCR 8.150(2)(f), 8.150(3)(a); specific application and/or approval]
3.4.4.1	Waste sent to site not authorized to accept it. [OGCR 8.150(2)(b)(c); Directive 058 7.5(125), 10.3(197)]
3.4.5.1	Waste characterization not completed or not adequate to classify the waste. [OGCR 8.150(2)(a); Directive 058 2(3); Waste Control Regulation]
3.4.6.1	Oilfield waste was not properly classified as either dangerous (DOW) or non-dangerous (non-DOW). [OGCR 8.150(2)(a); Directive 058 2(3), 2(4); Waste Control Regulation]

Manual #	Description
3.4.7.1	Oilfield wastes not characterized/classified prior to adding amendments, mixing, or diluting. [OGCR 8.150(2)(a); <i>Directive 058</i> 2(5), 2(6)]
3.4.8.1	Oilfield waste generator does not disclose characteristics or classification of oilfield wastes to waste carriers or receivers. [OGCR 8.150(2)(e)]
3.4.9.1	Waste tracking system not in place or tracking system does not maintain accurate and complete documentation and records. [OGCR 8.150(2)(d); <i>Directive 058</i> 3.3(19), 3.3(20)]
3.4.10.1	Oilfield waste was not properly identified (waste code). [OGCR 8.150(2)(d); <i>Directive 058</i> 3(9), appendix 2]
3.4.11.1	Shipping document not used during transportation of waste. [<i>Directive 058</i> 3(7)]
3.4.12.1	Shipping document does not include adequate information, including the waste code, the waste source, and the waste generator's contact information. [<i>Directive 058</i> 3(9), 3.1(12)]
3.4.13.1	AER's waste form not utilized, incomplete, or not adequate. [<i>Directive 058</i> 3.1(10), 3.1(11), 3.1(12), 3.1(13)]
3.4.14.1	Oilfield waste generator does not notify the AER as required for discrepancy. [<i>Directive 058</i> 3.2(15), 3.2.1(17)]
3.4.15.1	Oilfield waste generator does not investigate, reconcile, or take corrective action as required for discrepancy. [<i>Directive 058</i> 3.2(14), 3.2.1(17)]
3.4.16.1	Shipping documents or tracking information not retained by generator for a minimum of two years. [<i>Directive 058</i> 3.3(21)]
3.4.17.1	Storage or consolidation of small volumes of waste in bin/bag system does not meet requirements. [<i>Directive 058</i> 7.2(107)]
3.4.18.1	Oilfield wastes being burned. [OGCR 8.152, <i>Directive 058</i> 5]
3.4.19.1	Not monitoring or managing waste containing NORMs in accordance with the <i>Canadian Guidelines for the Management of Naturally Occurring Radioactive Materials</i> . [<i>Directive 058</i> 10.3(197)]
3.4.20.1	Oilfield waste biodegradation not conducted according to requirements. [<i>Directive 058</i> 4.1(29)–(32), 4.1.1(36)–(47), 4.1.2(49)–(56)]
3.4.21.1	Treatment not concluded/closed within 5 years or unsuccessfully treated waste not removed within five years. [<i>Directive 058</i> 4.1(28), 4.1.1(35), 4.1.2(54), 4.1.2(55), 7.4(122)]
3.4.22.1	Biodegradation notification or records keeping does not meet requirements. [<i>Directive 058</i> 4.1(33), 4.1.1(48), 4.1.2(57), 4.1.2(58), 7.4(123), 7.4(124)]
3.4.23.1	Mobile thermal treatment unit not operating according to requirements. [<i>Directive 058</i> 4.2; specific permit, licence, application, or approval]
3.4.24.1	Thermally treating oilfield wastes originating from sites outside the same production system. [<i>Directive 058</i> 4.2(60)]
3.4.25.1	No AER notification as required. [<i>Directive 058</i> 4.2.1(61), 4.2.1(63)]
3.4.26.1	Landowners or residents not notified as required. [<i>Directive 058</i> 4.2.1(61)]

4 Liability Management

4.1 Abandonment

Manual #	Description
4.1.1.1	No notification of facility abandonment. [<i>Directive 011 7.1(17)</i>]

4.2 Licensing

Manual #	Description
4.2.1.1	No licence obtained prior to construction of a facility or well, or incorrectly licensed facility or well. [OGCA 11(1)(a), 12(1)a); OGCR 7.001, 7.002(1)(2), 7.003; <i>Directive 056 5.1</i> , table 5.1, 7.1, table 7.1]

5 Emergency Planning and Assessment

5.1 Information

Manual #	Description
5.1.1.1	Failure to provide information as requested by the regulator. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 1.4</i>]

5.2 Corporate-level ERPs

Manual #	Description
5.2.1.1	Failure to have a corporate-level ERP. [OGCR 8.002; <i>Directive 071 2.1(1)</i>]
5.2.2.1	Failure to include information specified in section 2.1. [OGCR 8.002; <i>Directive 071 2.1(2)</i>]
5.2.3.1	Failure to ensure 24-hour emergency number initiates immediate action. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1(3)</i>]
5.2.4.1	Failure to ensure 24-hour emergency number is posted at primary entrance to facility. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1(4)</i>]
5.2.5.1	Failure to have information required by appendix 4 of <i>Directive 071</i> . [OGCR 8.003, 8.004; <i>Directive 0712.1.1(5)</i> , 5.1(1)]
5.2.6.1	Failure to define appropriate actions that would be taken for each level of emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.1(6)</i> , 5.1(2)]
5.2.7.1	Failure to include the specified information in the communications plan. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.2(7)</i> , 5.8(19)]
5.2.8.1	Failure to identify roles and responsibilities of personnel. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.3(8)</i>]
5.2.9.1	Failure to describe how an emergency will be managed and coordinated. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.4(9)</i> , 5.10(22)]
5.2.10.1	Failure to outline procedures for activating and reception centre. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.5(10)</i> , 5.12(24)]

5.3 Emergency Planning and Response Zones

Manual #	Description
5.3.1.1	Failure to adjust the actual size and shape of the EPZ. [OGCR 8.003, 8.004; <i>Directive 071 3.1(1)</i>]
5.3.2.1	Failure to use ERCBH2S properly. [OGCR 8.003, 8.004; <i>Directive 071 3.2(2)</i>]
5.3.3.1	Failure to submit CSV batch report file from ERCBH2S. [OGCR 8.003, 8.004; <i>Directive 071 3.2(3)</i>]

5.4 Public and Local Authority Involvement

Manual #	Description
5.4.1.1	Failure to carry out public and local authority notification and consultation and for situations outlined in table 8. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.1(1), 13.1</i>]
5.4.1.2	Failure to notify and or consult with those listed in table 3. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.3(8)</i>]
5.4.1.3	Failure to notify residents of urban centres. [OGCR 8.004, 8.005; <i>Directive 071 4.3(10)</i>]
5.4.2.1	Failure to include entire urban density development in public involvement program. [OGCR 8.004, 8.005; <i>Directive 071 4.2(3)</i>]
5.4.2.2	Failure to conduct public involvement program in accordance with section 4.3. [OGCR 8.004, 8.005; <i>Directive 071 4.3(9)</i>]
5.4.2.3	Failure to contact or provide information package to impacted parties. [OGCR 8.004, 8.005; <i>Directive 071 4.3(11)</i>]
5.4.2.4	Failure to develop and provide public information package to persons in table 3. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(12)</i>]
5.4.2.5	Failure to provide the requisite information in the public information package. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(13)</i>]
5.4.2.6	Failure to provide public information package to local AER field centre. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(14)</i>]
5.4.2.7	Failure to attempt to obtain personal information for ERP. [OGCR 8.004, 8.005; <i>Directive 071 4.4(15)</i>]
5.4.2.8	Failure to consider residents unwilling to provide personal information as having special needs. [OGCR 8.004, 8.005; <i>Directive 071 4.4(16)</i>]
5.4.2.9	Failure to identify all residents and local authorities within and adjacent to the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(2)</i>]
5.4.2.10	Failure to confirm and coordinate roles and responsibilities with local authorities, directors of emergency management for all municipalities and the health authority or applicable federal health branch. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(5)</i>]
5.4.3.1	Failure to contact appropriate urban director of emergency management. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(4)</i>]
5.4.3.2	Failure to confirm and coordinate roles and responsibilities with local authorities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2 (6)</i>]
5.4.3.3	Failure to attempt to reach a mutual understanding with local authorities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.3(7)</i>]
5.4.4.1	Failure to attempt to obtain the public involvement program information required in section 4.4 and incorporate it into ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.4(14)</i>]

5.5 Common Requirements for ERPs

Manual #	Description
5.5.1.1	Failure to include specific procedures for notification within EPZ. [8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.1(3)</i>]
5.5.10.1	Failure to have a listing of equipment. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.4(13)</i>]
5.5.11.1	Failure to include telephone list of all key internal personnel or external emergency support. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.6(14)</i>]
5.5.12.1	Failure to distribute copies of ERP or ERP supplement to those listed in appendix 5 within 10 days of approval. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(15), 7.3.3(11), 8.3.2(9), 9.3.1(7)</i>]

Manual #	Description
5.5.12.2	Failure to provide a copy of the ERP to a resident within EPZ upon written request. [OGCR 8.004, 8.005; <i>Directive 071 5.7(16)</i>]
5.5.12.3	Failure to ensure that all plan holders have a copy of the approved ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(17)</i>]
5.5.12.4	Failure to ensure that a plan distribution list is included in the ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(18)</i>]
5.5.13.1	Failure to have a bridging paragraph in the ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.8(20)</i>]
5.5.14.1	Failure to identify roles and responsibilities of personnel or their names. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.9(21)</i>]
5.5.15.1	Failure to have a process for recording the information for the activities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.11(23)</i>]
5.5.16.1	Failure to include procedures to downgrade and stand down levels of emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.13(25)</i>]
5.5.2.1	Failure to address how evacuation of the response zones will be accomplished. [8.004, 8.005; <i>Directive 071 5.2.2(4)</i>]
5.5.3.1	Failure to address assistance with transportation needs or changes in normal notification procedures in evacuating public facilities. [OGCR 8.004, 8.005; <i>Directive 071 5.2.2(5)</i>]
5.5.4.1	Failure to include appropriate shelter in place instructions in public information package or ERP. [OGCR 8.004, 8.005; <i>Directive 071 5.2.2 (6)</i>]
5.5.5.1	Failure to address how notification and evacuation will take place outside of the EPZ. [OGCR 8.004, 8.005; <i>Directive 071 5.2.3(7)</i>]
5.5.6.1	Failure to include ignition procedures and or ignition authority. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.4.1(8)</i>]
5.5.6.2	Failure to include ignition policy. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.4.2(9)</i>]
5.5.7.1	Failure to include isolation procedures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.5(10)</i>]
5.5.8.1	Failure to provide details surrounding activation or air quality monitoring. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.6(11)</i>]
5.5.9.1	Failure to clearly identify specified information on the ERP map. [OGCR 8.004, 8.005; <i>Directive 071 5.3(12)</i>]

5.6 Sour Well Site-Specific Drilling and/or Completion ERPs

Manual #	Description
5.6.1.1	Failure to submit for approval site specific drilling and or completions ERP. [OGCR 8.004, 8.005; <i>Directive 071 6.1(1)</i>]
5.6.2.1	Failure to ensure site-specific ERP addresses requirements in section 6.2. [OGCR 8.004, 8.005; <i>Directive 071 6.2(2)</i>]
5.6.3.1	Failure to ensure that critical sour well ERP addresses requirements in section 6.3. [OGCR 8.004, 8.005; <i>Directive 071 6.3(3)</i>]
5.6.4.1	Failure to ensure that noncritical sour well ERP addresses requirements in section 6.4. [OGCR 8.004, 8.005; <i>Directive 071 6.4(4)</i>]
5.6.5.1	Failure to leave all components of wellhead on the ERP is approved and on site. [OGCR 8.004, 8.005; <i>Directive 071 6.5(5)</i>]

5.7 Sour Operations and HVP Cavern Storage ERPs

Manual #	Description
5.7.1.1	Failure to have an approved ERP in situations where required. [OGCR 8.004, 8.005, 8.006 <i>Directive 071</i> 7.1(1), 8.1(1), 9.1(1)]
5.7.1.2	Failure to have an ERP approved prior to commencement of operations. [<i>Directive 071</i> 7.1(2), 8.1(2), 9.1(2)]
5.7.2.1	Failure to address the requirements for ERP content. [OGCR 8.004, 8.005, 8.006; <i>Directive 071</i> 7.2(3), 8.2(3), 9.2(3)]

5.8 Supplements

Manual #	Description
5.8.1.1	Failure to submit the requisite information in the supplement to the Regulator. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(6), 8.3(4), 9.3(4)]
5.8.2.1	Failure to submit a supplement for review and approval. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(4), 8.3.1(5), 8.3.2(7), 9.3.1(5)]
5.8.3.1	Failure to conduct a public involvement program for all members of the public in the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(5), 7.3.1(7), 8.3.1(6), 8.3.2(8), 9.3.1(6)]
5.8.4.1	Failure to provide required plan holders with the approved supplement and copy of the current ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3.3(12), 8.3.3(10), 9.3.2(8)]
5.8.5.1	Failure to ensure that a copy of the approved sour operations ERP and supplement is on site during all drilling and completion operations. [OGCR 8.004, 8.005; <i>Directive 071</i> 7.3.1(8), 7.3.2 (9)]
5.8.6.1	Failure to leave all components of the wellhead until the supplement has been approved and is on site. [OGCR 8.004, 8.005; <i>Directive 071</i> 7.3.2 (9)]

5.9 Spill Response

Manual #	Description
5.9.1.1	Failure of a non-member of an oil spill cooperative to have an approved plan in place to address a release of liquid product onto land or water. [<i>Directive 071</i> 10.3.1(1)]
5.9.2.1	Failure of a non-member of an oil spill cooperative to meet spill response equipment requirements. [<i>Directive 071</i> 10.3.2(2)]

5.10 Implementation of Corporate ERPs

Manual #	Description
5.10.1.1	Failure to have an up-to-date copy of the ERP at a response location. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1(1)]
5.10.2.1	Failure to review the ERP assigned roles and responsibilities with personnel. [OGCR 8.004, 8.005; <i>Directive 071</i> 11.1(2)]
5.10.3.1	Failure to use the Assessment Matrix to classify and incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.1(3), 14.2(2)]
5.10.4.1	Failure to take appropriate actions including public protection measures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.2(3)]
5.10.5.1	Failure to contact the regulator after activating internal response resources to confirm level of emergency and specifics of incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.1(4), 14.2(4)]

Manual #	Description
5.10.6.1	Failure to contact local authorities or support services if a release has the potential to impact public or if the media has been contacted. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2(5)</i> , 14.5(18)]
5.10.7.1	Failure to provide the information in appendix 8 to the public as soon as possible during an incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2 (6)</i> , 14.5 (19)]
5.10.8.1	Failure to consult with the regulator prior to making the decision to downgrade or stand-down an emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2.1 (7)</i> , 14.5.1(20)]
5.10.9.1	Failure to keep all affected persons and the media informed of the status of an emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 11.1.2.1 (8)</i> , 14.5.1 (21)]

5.11 Implementation of Emergency Planning and Response Zones

Manual #	Description
5.11.1.1	Failure to ensure that on site supervisory personnel are aware of the size of the EPZ. [OGCR 8.004, 8.005; <i>Directive 071 12.1(1)</i>]
5.11.2.1	Failure to attempt to evacuate residents from the IIZ if safe to do so. [OGCR 8.004, 8.005; <i>Directive 071 12.3.1</i>]

5.12 Implementation of Public and Local Authority Involvement

Manual #	Description
5.12.1.1	Failure to carry out public and local authority notification and consultation for situations outlined in table 8. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 13.1(1)</i>]
5.12.2.1	Failure to attempt to evacuate residents from the IIZ, where safe to do so. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 12.2.1(2)</i>]

5.13 Implementation for Common Requirements of ERPs

Manual #	Description
5.13.1.1	Failure to have an up-to-date copy of the ERP available at a response location. [OGCR 8.004, 8.005; <i>Directive 071 14.1(1)</i>]
5.13.2.1	Failure to carry out the notification requirements within the EPZ [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.1(5)(6)</i>]
5.13.3.1	Failure to advise the public within the EPZ of the appropriate public protection measures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.1(7)</i>]
5.13.4.1	Failure to assess and act on the need to expand the evacuation area as dictated by the specifics of the incident [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.3(8)</i>]
5.13.5.1	Failure to comply with ignition criteria outlined in section 14. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.6.1(9)</i> , 14.3.6.2(11)]
5.13.5.2	Failure to take into account the specified factors when making the decision to ignite. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.6.2(10)</i>]
5.13.6.1	Failure to ensure manned roadblocks are in place. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.7(12)</i>]
5.13.7.1	Failure to meet the air quality monitoring requirements for critical sour wells. [OGCR 8.004, 8.005; <i>Directive 071 14.3.8.1(13)</i>]
5.13.8.1	Failure to meet the air quality monitoring requirements for noncritical sour wells. [OGCR 8.004, 8.005; <i>Directive 071 14.3.8.1(14)</i>]
5.13.9.1	Failure to investigate the source of a release or send out monitoring units. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.8.2(15)</i>]

Manual #	Description
5.13.10.1	Failure to ensure that equipment identified in ERP is available and located where specified. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.4(16)</i>]
5.13.11.1	Failure to ensure that company equipment is operational and calibrated. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.4(17)</i>]
5.13.12.1	Failure to demonstrate the plan management system ensures up-to-date ERPs. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.6(22)</i>]
5.13.13.1	Failure to conduct a public awareness program every second year with residents within the EPZ. [<i>Directive 071 14.6(23)</i>]
5.13.14.1	Failure to distribute changes that are instrumental in implementing ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.6(24)</i>]
5.13.15.1	Failure to correct errors identified by stakeholders. [OGCR 8.004, 8.005; <i>Directive 071 14.6(25)</i>]
5.13.16.1	Failure to activate reception centre in appropriate locate or meet and register evacuees. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.8(26)</i>]
5.13.17.1	Failure to provide training sessions to ensure response personnel competency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.9(27)</i>]
5.13.18.1	Failure to test the ERP through tabletop or major exercises. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(28)</i>]
5.13.19.1	Failure to notify the appropriate AER field centre 30 days in advance of a scheduled exercise. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(29)</i>]
5.13.19.2	Failure to invite other government agencies to participate and or observe at major exercises [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(29)</i>]
5.13.20.1	Failure to have process for recording the information for the activities in section 14.11. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 17.11(30)</i>]
5.13.21.1	Failure of the new licensee to contact the regulator within 30 days of the transfer of licence. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.12(31)</i>]
5.13.22.1	Failure to ensure that the emergency response procedures in place will not be compromised prior to approval of new ERP [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.12(32)</i>]

5.14 Implementation of Sour Well Site-Specific Drilling and/or Completion ERPs

Manual #	Description
5.14.1.1	Failure to conduct a meeting prior to entering first sour zone. [OGCR 8.004, 8.005; <i>Directive 071 15.1(1)</i>]
5.14.2.1	Failure to conduct a critical sour meeting prior to entering the critical sour zone. [OGCR 8.004, 8.005; <i>Directive 071 15.1(2)</i>]
5.14.3.1	Failure to advise the regulator in advance or pre sour or critical sour meeting. [OGCR 8.004, 8.005; <i>Directive 071 15.1(3)</i>]
5.14.4.1	Failure to provide prior notice to local authority of critical sour zone meeting. [OGCR 8.004, 8.005; <i>Directive 071 15.1(4)</i>]
5.14.5.1	Failure to ensure critical sour zone equipment is located as specified prior to entering zone. [OGCR 8.004, 8.005; <i>Directive 071 15.2.1(5)</i>]
5.14.6.1	Failure to ensure the equipment identified in ERP is located where specified prior to operation. [OGCR 8.004, 8.005; <i>Directive 071 15.2.1(6)</i>]

5.15 Implementation of Spill Response Plans

Manual #	Description
5.15.1.1	Failure of a member of oil spill cooperative to attend a training exercise or complete a spill responder course. [OGCR 8.006; <i>Directive 071</i> 16.1.1(1)]
5.15.2.1	Failure of a non-member of an oil spill cooperative to conduct exercise. [OGCR 8.006, 8.052; <i>Directive 071</i> 16.2.1(4)]
5.15.3.1	Failure of a non-member of an oil spill cooperative to demonstrate the same competencies as an oil spill cooperative member. [OGCR 8.006, 8.052; <i>Directive 071</i> 16.2.1 5]
5.15.4.1	Failure to ensure good standing with an oil spill cooperative as required by <i>Directive 071</i> . [OGCR 8.006, 8.052; <i>Directive 071</i>]

5.16 24-hour Emergency Number

Manual #	Description
5.16.1.1	Failure to ensure 24-hour emergency number initiates immediate action. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 4.3.1, 7.2, 8.2, and 9.2]

5.17 ERPs Pre-April 8, 2008

Manual #	Description
5.17.1.1	ERP manual not updated yearly, exercises not conducted, or details not documented (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 4.2.2, 4.14; <i>Bulletin 2008-15</i> 2.2]
5.17.2.1	Operator not communicating with residents in the emergency planning zone (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 2.2.1; <i>Bulletin 2008-15</i> 2.2]
5.17.3.1	Copy of ERP not readily available (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 4.2.2; <i>Bulletin 2008-15</i> 2.2]

6 *Directive 084*

6.1 General

Manual #	Description
6.1.1.1	Failure to provide documents, records, or plans or any additional documents, records, or plans. [<i>Directive 084</i> 2(1)]

6.2 Routine and Nonroutine Venting

Manual #	Description
6.2.1.1	Failure to capture and flare, incinerate, or conserve all solution gas unless otherwise directed by the AER. [<i>Directive 084</i> 3.2(2)]
6.2.2.1	Failure to implement suitable and functional control to prevent nonroutine venting. [<i>Directive 084</i> 3.2(3)]

6.3 Limitations on Nonroutine Flaring

Manual #	Description
6.3.1.1	Nonroutine flaring volumes in exceedance of 3.0 per cent of total gas production volumes in any calendar year. [<i>Directive 084 4.2(4)</i>]

6.4 Gas Conservation

Manual #	Description
6.4.1.1	Failure to achieve a cumulative gas conservation rate of at least 95.0 per cent unless otherwise directed by the AER. [<i>Directive 084 5.2(6)(7)</i>]

6.5 Fugitive Emissions

Manual #	Description
6.5.1.1	Failure to develop, document and implement a fugitive emissions management program that meet the requirements of <i>Directive 084</i> . [<i>Directive 084 6.2.1(8)</i>]
6.5.11.1	Failure to use reliable and appropriate leak detection techniques or equipment when conducting leak inspections or surveys. [<i>Directive 084 6.2.3 (19)(20)(21)</i>]
6.5.12.1	Failure to quantify leak rates when required. [<i>Directive 084 6.2.4(22)</i>]
6.5.13.1	Single point measurement uncertainty greater than 25 per cent when quantifying leaks. [<i>Directive 084 6.2.4(23)</i>]
6.5.14.1	Licensee did not immediately start addressing a leak upon detection or leaks were not repaired immediately as required or within the required time frame. [<i>Directive 084 6.2.5 (25)(26)(27)(28)</i>]
6.5.17.1	Licensee does not confirm component is no longer leaking prior to reactivation. [<i>Directive 084 6.2.5(29)</i>]
6.5.18.1	Failure to clearly identify the leak for subsequent repair and repair confirmation. [<i>Directive 084 6.2.5(30)</i>]
6.5.19.1	Failure to submit a monthly leak report to the AER. [<i>Directive 084 6.2.6.1(31)</i>]
6.5.2.1	Failure to develop, document and implement plans to accurately identify leaking components. [<i>Directive 084 6.2.2(9)</i>]
6.5.20.1	Failure to submit annual FEMP analysis report to the AER. [<i>Directive 084 6.2.6.2 (32)</i>]
6.5.21.1	Licensee does not have a quality-assurance/quality-control (QA/QC) program. [<i>Directive 084 6.2.7(3), 6.2.7.1(34), 6.2.7.2(35)</i>]
6.5.22.1	Failure to retain records of all surveys, inspections, leak detection and quantification results and procedures, leak repairs, QA/QC programs, and reports. [<i>Directive 084 6.2.8 (36)</i>]
6.5.23.1	Fugitive emissions records do not meet requirements. [<i>Directive 084 6.2.8 (37)</i>]
6.5.3.1	FEMP does not include description of how inspections and surveys are conducted. [<i>Directive 084 6.2.2(10)</i>]
6.5.4.1	Failure to immediately conduct an inspection. [<i>Directive 084 6.2.2.1(11)</i>]
6.5.5.1	Failure to conduct weekly (AVO) inspections. [<i>Directive 084 6.2.2.2(12)</i>]
6.5.6.1	Failure to conduct monthly and/or annual survey of targeted components within the specified timeline criteria. [<i>Directive 084 6.2.2.3(13), 6.2.2.4(17)</i>]
6.5.7.1	Mandatory components are not included in monthly surveys. [<i>Directive 084 6.2.2.3(14)</i>]
6.5.8.1	Licensee did not add component to list of targeted components when required. [<i>Directive 084 6.2.2.3(15)(16)</i>]

6.6 Truck Loading, Unloading, Tank Cleaning and Desanding

Manual #	Description
6.6.1.1	Failure to implement suitable and functional controls for emissions that have potential to cause, or are causing, off lease odours. [Directive 084 7.2(38)]
6.6.2.1	Failure to develop, document, implement, and retain an emission controls program for truck loading, truck unloading, tank cleaning, and tank desanding that ensures that emission controls are suitable and functional. [Directive 084 7.2(39)(40)]

6.7 Ambient Air Monitoring

Manual #	Description
6.7.1.1	Failure to participate in a regional ambient air monitoring program operating in the Peace River area. [Directive 084 8.2(41)]

6.8 Annual Performance Report

Manual #	Description
6.8.1.1	Failure to submit required information about the previous calendar year to the AER. [Directive 084 9.2(42)]

50 Public Lands Act

50 General

Manual #	Description
50.1.1.1	Unauthorized Use - No approval or disposition associated with disturbance or use of public land. [PLA 20(1), 47(1)(a)]
50.2.1.1	Unauthorized Use (Purpose) - Disposition being used for purpose other than for which it was approved. [PLA 20(1)(e); PLAR 173(1) approval]
50.4.1.1	Cuts / fills not re-contoured to a stable slope. [PLAR 173(1); approval]
50.5.1.1	Erosion on site not being controlled. [PLA 54(1)(f); PLAR 173(1); approval]
50.6.1.1	Timber not salvaged as per approval. [PLAR 173(1); approval]
50.8.1.1	Brush/debris disposal not completed as required by approval. [PLAR 173(1); approval]
50.9.1.1	Waste material, debris, refuse, or garbage accumulating on site. [PLA 54(1)(a); PLAR 21(1)(h)]
50.11.1.1	Weeds not actively being managed. [PLA 63(b); PLAR 173(1), approval]
50.12.1.1	Compaction and/or admixing of soil profile occurring on site due to rutting. [PLA 54(e); PLAR 173(1); approval]
50.13.1.1	Prohibited species identified in approval used for re-vegetation. [PLAR 173(1); approval]
50.14.1.1	Operating within restricted time period identified in approval. [PLAR 173(1)]
50.15.1.1	Access control requirements outlined in approval not met. [PLAR 173(1)]

51 Water Management

Manual #	Description
51.1.1.1	Deleterious material deposited into, or onto the ice of, a water body or watercourse. [PLA 54(1)(e), PLAR 173(1), approval]
51.2.1.1	Unsatisfactory crossing of a permanent or fish-bearing watercourse. [PLA 54(1)(e)(f); PLAR 21 (1)(j); approval]

Manual #	Description
51.3.1.1	Unsatisfactory crossing of an ephemeral or intermittent watercourse, wetland, cross-drain, or other non-fish-bearing water body. [PLA 54(1)(e)(f); PLAR 173(1); approval]
51.4.1.1	Crossing type not as per approval. [PLAR 173(1)]
51.5.1.1	Operation or infrastructure on disposition interfering with natural drainage, other than what has been approved. [(PLA 54(1)(d)–(f)]
51.6.1.1	Disturbance to bed and shore of water bodies other than what is approved through approval. [PLA 53(a), 54(e)]

52 Conservation and Reclamation

Manual #	Description
52.1.1.1	Proper soil conservation techniques not being used. [PLAR 21(f), PLA 63(d), PLAR 173(1), approval]
52.2.1.1	Interim reclamation not implemented on disposition within required timeframe. [Approval]

53 EAP Dispositions

Manual #	Description
53.1.1.1	Regulator not notified of entry within 72 hours. [PLAR 173(1)]
53.4.1.1	Class of road built is greater than maximum outlined in approval. [PLAR 173(1)]
53.5.1.1	Required wildlife survey not completed. [PLAR 173(1), approval]
53.6.1.1	Wildlife signage not installed as required. [PLAR 173(1), approval]
53.7.1.1	100m wildlife sweep not conducted appropriately prior to construction. [PLAR 173(1), approval]
53.10.1.1	Access to non-producing well off public grade road not closed to highway traffic within 1 year. [PLAR 173(1), approval]

59 Other

Manual #	Description
59.1.1.1	Other contravention of approval condition [PLAR 173(1)]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
59.2.1.1	Other contravention of act or regulation. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

60 EPEA General

60.1 EPEA Releases

Manual #	Description
60.1.1.1	Failure to report a release as required. [EPEA 110(1)(2)]
60.1.2.1	Release notifications requirements not met. [EPEA 111(1), RRR 4]
60.1.3.1	Failure to take remedial action. [EPEA 112]

60.2 EPEA Waste Management

Manual #	Description
60.2.1.1	Waste not in appropriate container. [EPEA 176, 178]
60.2.2.1	Waste not disposed at approved waste management facility. [EPEA 176, WCR 13, 23]

Manual #	Description
60.2.3.1	Hazardous waste not disposed of in accordance with requirements. [EPEA 192]
60.2.4.1	Generation, storage, handling, transport, or acceptance of hazardous waste without personal identification number. [EPEA 188]
60.2.5.1	Hazardous waste handling not in accordance with manifesting requirements. [EPEA 191]
60.2.6.1	Hazardous waste manifest requirements not met. [WCR 7]
60.2.7.1	Hazardous waste mixed, diluted, or divided to avoid regulatory requirements. [WCR 16]
60.2.8.1	Hazardous waste or hazardous recyclable not characterized and/or classified. [WCR 3.1]
60.2.9.1	Hazardous recyclables sent to facility not authorized to accept it. [EPEA 169]
60.2.10.1	Hazardous recyclables not accompanied with recycle docket. [EPEA 169]
60.2.11.1	Hazardous recyclable recycle docket requirements not met. [WCR 19]

60.3 EPEA Storage

Manual #	Description
60.3.1.1	Hazardous substance not stored in a manner to prevent contact with plants, animals, food, or drink. [EPEA 155]
60.3.2.1	Hazardous waste not stored as per requirement. [WCR 11 (1), (2)]
60.3.3.1	Hazardous waste stored without adequate labelling in accordance with requirements. [WCR 11(1)(d)]
60.3.4.1	Hazardous recyclable not stored as per requirements. [WCR 18(1)(2)]
60.3.5.1	Hazardous recyclable stored without adequate labelling in accordance with requirements. [WCR 18(1)(d)]

60.6 EPEA Other

Manual #	Description
60.6.1.1	Noncompliant with other EPEA item. (Specified in comments). (Not all compliance statements are referenced in the manual. Inspectors may use "other" to capture items not listed.)

61 EPEA Approval

61.1 Approval/Registration Requirements

Manual #	Description
61.1.1.1	No EPEA approval where required. [EPEA 61]
61.1.2.1	Change in activity, process, or equipment without amendment to approval. [EPEA 67]
61.1.3.1	Approval or registration not transferred. [EPEA 75]

61.2 Releases

Manual #	Description
61.2.1.1	Failure to report a release in excess of approval or registration requirements. [EPEA 108]

61.3 Records and Reporting

Manual #	Description
61.3.1.1	Approval reporting conditions not met. [EPEA 227E]
61.3.2.1	7-day report conditions not met as per approval. [EPEA 111, 227E]

61.3.4.1	Application/plans/proposals approval conditions not met. [EPEA 227E]
61.3.5.1	Monthly/annual/special/other report approval conditions not met. [EPEA 227E]
61.3.6.1	Notification approval conditions not met. [EPEA 227E]

61.4 Construction Equipment and Operations

Manual #	Description
61.4.4.1	Land conservation approval not met. [See specific approval; EPEA 227E]

61.5 Air Management

Manual #	Description
61.5.1.1	Analytical conditions not met. [See specific approval; EPEA 227E]
61.5.2.1	Air effluent limits exceeded. [See specific approval; EPEA 227E]
61.5.3.1	Air Emission sources do not correspond to approval [See specific approval; EPEA 227E]
61.5.4.1	Equipment/systems conditions not met. [See specific approval; EPEA 227E]
61.5.5.1	Operating limit parameters/equipment downtime exceeded. [See specific approval; EPEA 227E]
61.5.6.1	Source monitoring conditions not met. [See specific approval; EPEA 227E]
61.5.7.1	Ambient monitoring conditions not met. [See specific approval; EPEA 227E]
61.5.8.1	Pollution abatement equipment conditions not met. [See specific approval; EPEA 227E]
61.5.9.1	Fugitive emissions not controlled in accordance with approval [See specific approval; EPEA 227E]
61.5.11.1	Monthly/annual/other report conditions not met. [See specific approval; EPEA 227E]

61.6 Industrial Wastewater

Manual #	Description
61.6.1.1	Monitoring conditions not met. [See specific approval; EPEA 227E]
61.6.2.1	Storage approval conditions not met. [See specific approval; EPEA 227E]
61.6.3.1	Discharge/disposal conditions not met. [See specific approval; EPEA 227E]
61.6.4.1	Action leakage rate limits/requirements not met. [See specific approval; EPEA 227E]
61.6.5.1	Analytical conditions not met. [See specific approval; EPEA 227E]
61.6.7.1	Substance release/control system limits exceeded. [See specific approval; EPEA 227E]
61.6.8.1	Control system monitoring conditions not met. [See specific approval; EPEA 227E]
61.6.9.1	Pollution minimization conditions not met. [See specific approval; EPEA 227E]
61.6.11.1	Monthly/annual/other report conditions not met. [See specific approval; EPEA 227E]

61.7 Industrial Runoff

Manual #	Description
61.7.1.1	Monitoring conditions not met. [See specific approval; EPEA 227E]
61.7.2.1	Storage conditions not met. [See specific approval; EPEA 227E]
61.7.3.1	Discharge/disposal approval not met. [See specific approval; EPEA 227E]
61.7.4.1	Analytical conditions not met. [See specific approval; EPEA 227E]
61.7.6.1	Substance release/control system limits exceeded. [See specific approval; EPEA 227E]
61.7.7.1	Control system monitoring conditions not met. [See specific approval; EPEA 227E]

Manual #	Description
61.7.8.1	Prior to release monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.10.1	Notification conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.7.11.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.8 Domestic Wastewater/Sanitary Sewage

Manual #	Description
61.8.2.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.8.4.1	Substance release limits exceeded. [See specific approval; <i>EPEA 227E</i>]
61.8.5.1	Untreated wastewater monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.8.6.1	Treated wastewater monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.8.9.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.9 Groundwater

Manual #	Description
61.9.2.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.9.3.1	Monitoring wells do not exist/placed inappropriately. [See specific approval; <i>EPEA 227E</i>]
61.9.4.1	Monitoring wells not locked/protected/repaired as required. [See specific approval; <i>EPEA 227E</i>]
61.9.5.1	Groundwater monitoring conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.9.6.1	Groundwater remediation requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.9.8.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.10 Soil/Land Management

Manual #	Description
61.10.2.1	Analytical conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.10.3.1	Soil monitoring program conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.10.4.1	Soil management program conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.10.6.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.11 Waste Management

Manual #	Description
61.11.1.1	Waste not disposed at waste management facility. [<i>EPEA 176(a)</i> ; <i>227E</i>]
61.11.2.1	Sampling requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.11.3.1	Analytical requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.11.4.1	Waste classification/characterization conditions not met. [See specific approval; <i>EPEA 227E</i>]
61.11.5.1	Generated waste not measured/estimated as per requirements. [See specific approval; <i>EPEA 227E</i>]
61.11.6.1	Daily waste inventory not conducted as per requirements. [See specific approval; <i>EPEA 227E</i>]
61.11.7.1	Storage requirements not met. [See specific approval; <i>EPEA 227E</i>]
61.11.9.1	Monthly/annual/other report conditions not met. [See specific approval; <i>EPEA 227E</i>]

61.12 Approval Other

Manual #	Description
61.12.1.1	Noncompliant with approval requirements (Specified in comments). (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

61.13 Wildlife Plans

Manual #	Description
61.13.1.1	Failure to adhere to approved wildlife mitigation and monitoring plan. [See specific approval; <i>EPEA 227E</i>]
61.13.2.1	Failure to adhere to approved caribou mitigation and monitoring plan. [See specific approval; <i>EPEA 227E</i>]

70 Water Act Approval

70.1 Approval Conditions

Manual #	Description
70.1.1.1	No <i>Water Act</i> approval obtained for activity. [WA 36]
70.1.2.1	Approval/plans/reports not retained, posted, produced as required. [See specific approval; WA 39, 142(1)(e)]
70.1.3.1	Contravention reporting/written report not submitted as required by approval. [See specific approval; WA 142 (1)(e)]
70.1.4.1	Works conducted does not meet the approval activity description. [See specific approval; WA 142 (1)(e)]
70.1.5.1	The activity is not undertaken as described in the approval plan(s)/report(s). [See specific approval; WA 142 (1)(e)]
70.1.6.1	The activity is not undertaken as described in the approval particulars. [See specific Approval; WA 142 (1)(e)]
70.1.7.1	The activity is not undertaken to meet the siltation and erosion control requirements. [See specific approval; WA 142 (1)(e)]
70.1.8.1	The activity does not meet the Wetland Compensation requirements as described in the approval. [See specific approval; WA 142 (1)(e)]
70.1.9.1	Certificate of completion not completed as described in the approval. [See specific approval; WA 142 (1)(e)]
70.1.10.1	Other (Unique condition/clause described in the approval that is not identified above). [See specific approval; WA 142 (1)(e)]
70.1.11.1	Construction timing/methods or plans/reports/manuals/safety review submissions not completed as required in the approval [See specific approval; WA 142(1)(e)]
70.1.12.1	Monitoring methodology or reporting do not meet requirements as required in the approval [See specific approval; WA 142(1)(e)]

71 Water Wells

71.1 Approval Conditions

Manual #	Description
71.1.1.1	The class of approval is incorrect. [WWGSHES Directive 2.1; WA 142(1)(e)]
71.1.2.1	Drilling, saline groundwater and/or gas reports not conducted as required. [WWGSHES Directive 3.10; WA 142(1)(e)]

Manual #	Description
71.1.3.1	Water well site specifications do not meet the requirements. [WWGSHES Directive 3.1; WA 142(1)(e)]
71.1.4.1	Pumping equipment and/or venting specifications do not meet the requirements. [WWGSHES Directive 3.5; WA 142(1)(e)]
71.1.5.1	Flowing water wells, Maximum allowable flow of flowing water well and/or flow device does not meet the requirements. [WWGSHES Directive 3.8; WA 142(1)(e)]
71.1.6.1	Water well and/or pumping equipment disinfection does not meet the requirements. [WWGSHES Directive 3.6; WA 142(1)(e)]
71.1.7.1	Testing of water yield does not meet the requirements. [WWGSHES Directive 3.4; WA 142(1)(e)]
71.1.8.1	Water well reclamation does not meet the requirements. [WWGSHES Directive 3.7; WMR 66; WA 142(1)(e)]
71.1.9.1	Inactive water well requirements not met. [WMR 67; WA 142(1)(e)]
71.1.10.1	Reconditioning of water well requirements not met. [WWGSHES Directive 3.9; WA 142(1)(e)]
71.1.11.1	Security and well driller requirements not met. [WMR 70; WA 142(1)(e)]
71.1.12.1	Rig plate requirements not met. [WWGSHES Directive 2.2; WA 39(b), 142(1)(e)]
71.1.13.1	Water well construction methods do not meet the requirements. [WWGSHES Directive 3.2; WMR 68; WA 142(1)(e)]
71.1.14.1	Water well sediment protection does not meet the requirements. [WWGSHES Directive 3.3; WA 142(1)(e)]

72 Water Act Licence

72.1 Licence Conditions

Manual #	Description
72.1.1.1	No <i>Water Act</i> licence obtained for diversion. [WA 49(1)]
72.1.2.1	Contravention reporting / written reports not completed as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
72.1.4.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
72.1.5.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(1)(e)]
72.1.6.1	Point of use not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.7.1	Diverting water for purpose other than described in the licence. [Licence condition; WMR 11; WA 142(1)(e)]
72.1.8.1	The works used to divert the water not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.9.1	Exceeded diversion limit/rate described in the licence. [Licence condition; WA 142(1)(e)]
72.1.10.1	Screen on pump intake not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.11.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.12.1	Measuring diversion source water and calibration requirements not completed as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.13.1	Monitoring frequencies not completed as described in the licence. [Licence condition; WA 142(1)(e)]

Manual #	Description
72.1.14.1	In-stream objectives not met as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.15.1	Recording and reporting requirements not met as described in the licence [Licence condition; WA 142(1)(e)]
72.1.16.1	Water use reporting requirements not completed as described in the licence. [Licence condition]
72.1.17.1	Licensee did not investigate all written complaints as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.18.1	Licensee did not conduct/complete water sampling as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.19.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.20.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

73 *Water Act* Temporary Diversion Licence (TDL)

73.1 TDL Conditions

Manual #	Description
73.1.1.1	No temporary diversion licence obtained for activity. [WA 49, 142(1)(e)]
73.1.2.1	Contravention(s) not immediately reported. [Licence condition; WA 142(1)(e)]
73.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
73.1.4.1	Licence not kept at the point of diversion. [WA 65, 142(1)(e)]
73.1.5.1	Licence not kept in the vehicle that transports the water. [WA 65, 142(1)(e)]
73.1.6.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
73.1.7.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(1)(e)]
73.1.8.1	Point of use not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.9.1	Diverting water for purpose other than described in the licence. [Licence condition; WMR 11; WA 142(1)(e)]
73.1.10.1	The works used to divert the water not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.11.1	Volume allowed exceeded. [Licence condition; WA 142(1)(e)]
73.1.12.1	Rate of diversion greater than what was described in the licence. [Licence condition; WA 142(1)(e)]
73.1.13.1	Screen on pump intake not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.14.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.15.1	Total volume of water diverted on each occasion was not monitored /measured as described in licence. [Licence condition; WA 142(1)(e)]
73.1.16.1	Recording and reporting requirements not met as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.17.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.18.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

74 Water Act Codes of Practice

74.2 Watercourse Crossings

Manual #	Description
74.2.1.1	No <i>Water Act</i> Code of Practice obtained for activity. [WMR Part 1(3)]
74.2.2.1	Watercourse crossing activity requirements not met. [COP 2; WMR Part 1(3)]
74.2.3.1	Notice of activity requirements not met. [COP 3, 4; WMR Part 1(3)]
74.2.4.1	Emergency works requirements not met. [COP 6; WMR Part 1(3)]
74.2.5.1	Watercourse crossing work plans not prepared/followed/changed as required. [COP 7, Schedule 2; WMR Part 1(3)]
74.2.6.1	Class of water body not classified as per the requirements. [COP 8; WMR Part 1(3)]
74.2.7.1	Watercourse crossing types or replacements (except temporary crossings) requirements not met. [COP 9, 11, Schedules 2 & 3; WMR Part 1(3)]
74.2.8.1	Temporary crossings not constructed in accordance with applicable parts of Schedules 2 and 3 and the written specifications and recommendations of a qualified aquatic environment specialist. [COP 10, Schedules 2 & 3; WMR Part 1(3)]
74.2.9.1	Restricted activity periods not adhered to. [COP 9, 11; WMR Part 1(3)]
74.2.10.1	Certification of works requirements not met. [COP 12; WMR Part 1(3)]
74.2.11.1	Reporting requirements not met. [COP 13; WMR Part 1(3)]
74.2.12.1	Records not created, compiled, and retained as required. [COP 14; WMR Part 1(3)]
74.2.13.1	Compliance monitoring (over crossing lifespan) not completed in accordance with the prepared plan. [COP 15, 7; WA 142(1)(e); WMR Part 1(3)]

75 Water (Ministerial) Regulation

75.2 Dam and Canal Safety Part 6

Manual #	Description
75.2.1.1	The dam owner is not following the <i>Dam Safety Directive</i> . [WMR 28]
75.2.2.1	The dam owner has not ensured that the design and construction of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a) and DSD 5.14]
75.2.3.1	The dam owner has not ensured that the dam was operated in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.4.1	The dam owner has not ensured that the decommissioning, closure, and abandonment of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.5.1	The dam owner has not ensured that there is sufficient surveillance, maintenance, and repairs. [WMR 29(1)(c)]
75.2.6.1	The dam owner does not have a dam safety management plan. [WMR 29(1)(d) and DSD 4.1, 4.2]
75.2.7.1	The dam owner has not ensured that all safety deficiencies have been identified, tracked, and managed until corrected. [WMR 29(1)(e) and DSD 4.5(1)]
75.2.8.1	The dam owner has not addressed all critical safety deficiencies in accordance with the <i>Dam Safety Directive</i> . [WMR 29(1)(f) and DSD 4.5(2)]
75.2.9.1	The dam owner has not exercised reasonable care and due diligence to risk factors that can increase the inherent risk of the approved dam. [WMR 29(2)]
75.2.10.1	The owner has not ensured the dam is designed and constructed by a qualified professional. [WMR 30(1) and DSD 5.2]

Manual #	Description
75.2.11.1	The owner has not ensured that the construction of the dam conforms to the accepted drawings and the <i>Dam Safety Directive</i> . [WMR 30(1)(b)(ii) and DSD 5.14]
75.2.12.1	The owner has not conducted investigations, surveillance, assessments, and evaluations by qualified individuals. [WMR 30(2) and DSD 5.4, 5.18]
75.2.13.1	The owner has not prepared, maintained, reviewed, and updated an operations, surveillance, and maintenance manual. [WMR 31(1)(a) and DSD 6.1]
75.2.14.1	The owner has not conducted operations, surveillance, and maintenance of the dam in accordance with the OMS manual. [WMR 31(1)(b)]
75.2.15.1	The dam owner has not installed, operated, or maintained instrumentation as required by the OMS manual. [WMR 31(3)]
75.2.16.1	The dam owner has not prepared, maintained, reviewed, and updated the EMP for the dam by a qualified individual. [WMR 32(2) and DSD 7.1, 7.3]
75.2.17.1	The dam owner has not shared all relevant up to date information with those potentially impacted by an emergency. [WMR 32(3) and DSD 7.1(4)]
75.2.18.1	The dam owner has not operated the dam in accordance with the EMP when there is an increased risk to factors at risk. [WMR 32(4)(a)]
75.2.19.1	The dam owner has not notified the director of the nature of the conditions, any actions undertaken, and any information provided to persons on those conditions, that have increased the risk to factors at risk. [WMR 32(4)(b)]
75.2.20.1	The dam owner has not notified the director of hazardous condition, safety deficiency, potential safety hazard, major repairs, significant changes to operations or surveillance / inspection plans and outcomes in response to a hazardous condition. [WMR 33(1) and DSD 8.1]
75.2.21.1	The dam owner has not provided the requested information or resources as required to the Director. [WMR 33(2)]
75.2.22.1	The dam owner has not prepared or submitted a decommissioning closure abandonment plan. [WMR 34(1) and DSD 9.6]
75.2.23.1	The dam/canal owner shall not implement a plan referred to in subsection (1) unless the Director has confirmed in writing that the plan meets the criteria set out in the Safety Directive. [WMR 34(2) and DSD 9.9]
75.2.24.1	The dam owner has not conducted a consequence classification of the dam. [WMR 34.1(3) and DSD 3.1, 3.4]
75.2.25.1	The dam owner has not reported a change in the consequence classification to the Director. [WMR 34.1(5) and DSD 3.3, 3.4]
75.2.26.1	The dam owner has not conducted a systematic risk assessment in accordance with the <i>Dam Safety Directive</i> . [WMR 34.3 and DSD 5.22]
75.2.27.1	Noncompliant with other WMR item (specified in comments).

75.3 Dam and Canal Safety Directive

Manual #	Description
75.3.1.1	The owner has not submitted the required information for an application or authorization for a dam. [DSD 2.1, 2.2, 2.3]
75.3.2.1	The owner has not prepared or submitted a construction completion report as required. [DSD 5.17]
75.3.3.1	The owner has not undertaken an annual engineering inspection as required. [DSD 5.19]
75.3.4.1	The owner has not undertaken an annual performance review as required. [DSD 5.20]
75.3.5.1	The owner has not undertaken a dam safety review as required. [DSD 5.21(1)]
75.3.6.1	The owner has not held an orientation workshop, emergency drill, or conducted an exercise as required. [DSD 7.4]

Manual #	Description
75.3.7.1	The owner has not developed a cessation / resumption plan as required. [DSD 9.1(1)]
75.3.8.1	The owner has not notified the Director of the cessation / resumption as required. [DSD 9.2(1), (2)]
75.3.9.1	The owner has not submitted the post implementation report. [DSD 9.5]
75.3.10.1	The owner has not notified the Director of deviation from the accepted decommissioning, abandonment, closure plan. [DSD 9.9]
75.3.11.1	The owner has not submitted the completion report of decommissioning, closure, and abandonment of a dam. [DSD 9.10]
75.3.12.1	Noncompliant with other DSD item (specified in comments).

99 Other

99.1 Other

Manual #	Description
99.1.1.1	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
99.1.1.2	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
99.1.1.3	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

C Well Site

1 Equipment

1.1 Gas Measurement Operations

Manual #	Description
1.1.1.1	Produced gas (plant inlet, total battery/group gas) not metered. [Directive 017 1.7.1(ii), 1.7.2(iii), 4.1, 4.2, 5.5, 7.1.1)]
1.1.2.1	Flared/vented gas not measured. [Directive 017 4.1, 4.3.3.1(10), 4.3.5.1, 4.3.5.2, 12.2.2]
1.1.3.1	Fuel gas not measured. [Directive 017 4.1, 4.2.2, 4.3.5.2, 12.2.2]
1.1.4.1	Acid gas not metered or stream does not have continuous temperature measurement. [Directive 017 4.3.1, 11.1, 11.2] 11.4.4.1, 11.4.4.3]
1.1.5.1	Design, installation, and operation of measurement system is not in accordance with requirements. [Directive 017 4.3.1, 4.3.4, 4.3.5]
1.1.6.1	Gas well effluent measurement test taps installed upstream of the well effluent meter. [Directive 017 7.4)]
1.1.7.1	Meter not calibrated/proved since installation, following repairs, or calibration/proving expired. [Directive 017 2.5.1, 2.5.2, 2.5.4]
1.1.8.1	Calibration procedures not in accordance with requirements. [Directive 017 2.5.1]
1.1.9.1	Gas meter internal components are unsatisfactory. [Directive 017 2.5.2, 4.3.1]
1.1.10.1	Gas meter internal components not checked in accordance with requirements. [Directive 017 2.5.2]

Manual #	Description
1.1.11.1	Flowing gas temperature not determined in accordance with the requirements. [<i>Directive 017 4.3.1</i>]
1.1.12.1	Sensing lines between orifice meter and recording device not designed in accordance with requirements. [<i>Directive 017 4.3.4.1</i>]
1.1.13.1	Chart recorder not suitably winterized to prevent sensing lines and other piping from freezing and disrupting measurement. [<i>Directive 017 4.3.4.1</i>]
1.1.14.1	Improper chart drive speed/inappropriate use of multiday charts. [<i>Directive 017 4.3.1, 5.3, 6.5, 7.3.1, 7.4.1</i>]
1.1.15.1	Heavy oil and crude bitumen gas production not tested in accordance with the requirements. [<i>Directive 017 12.2.2.1</i>]

1.2 Gas Measurement Administration

Manual #	Description
1.2.1.1	Gas production not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3</i>]
1.2.2.1	Gas production determined using measurement by difference practices that are not in accordance with requirements. [<i>Directive 017 5.5</i>]
1.2.3.1	Flared/vented gas not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3; Directive 017 4.2.2, 4.3.3.1(4), (5)</i>]
1.2.4.1	Fuel gas not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3; Directive 017 4.3.3.1(4), (5), (7), (9)</i>]
1.2.5.1	Acid gas not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3; Directive 017 4.3.3.1(4), 11.4.4.1 to 11.4.4.3</i>]
1.2.6.1	Measurement not in accordance with approval. [<i>Directive 017 5, 5.1, 5.2; see specific approval</i>]
1.2.7.1	Meter calibration/proving tag or detailed report does not meet requirements. [<i>Directive 017 2.3 Exceptions (1), 2.5.2, 2.5.2(2), (3), (4), 2.5.3, 2.5.4</i>]
1.2.8.1	Incorrect or insufficient information recorded on chart. [<i>Directive 017 4.3.3.1(2), 4.3.4.2</i>]

1.3 Hydrocarbon Liquids Measurement Operations

Manual #	Description
1.3.1.1	Metering system not designed, installed, or operated as required. [<i>Directive 017 2.6(1), 2.8.1, 2.8.2, 6.3.1, 13.2.1</i>]
1.3.2.1	Meter installed downstream of snap-acting dump valve. [<i>Directive 017 2.6(1), 2.8.1, 2.8.2, 2.9, 12.2, 13.2.1</i>]
1.3.3.1	Measurement device not calibrated/proved since installation, following repairs, or calibration/proving expired. [<i>Directive 017 2.6, 2.8.1, 2.8.2, 2.9, 2.12, 2.13, 2.14, 13.2.1</i>]
1.3.4.1	Prover tap size or location not in accordance with requirements. [<i>Directive 017 2.6(2), 12.2, 13.2.1</i>]
1.3.5.1	Procedures for the proving/calibration of measurement device/system are not in accordance with requirements. [<i>Directive 017 2.6, 2.7, 2.8, 2.9, 2.11, 2.12, 2.13, 12.2, 13.2.1</i>]
1.3.6.1	Tank gauging not in accordance with requirements. [<i>Directive 017 10.5.1, 12.2.4, 13.2.1, 14.7, 14.7.3, 14.7.4, 14.7.5</i>]

1.4 Hydrocarbon Liquids Measurement Administration

Manual #	Description
1.4.1.1	Hydrocarbon liquid production not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3</i>]
1.4.2.1	Measurement device calibration/proving tag or detailed report does not meet requirements. [<i>Directive 017 2.6</i> (10), (11), (Exemptions 1–3), 2.7.1(2), 2.12, 2.13.2, 2.14, 12.2, 13.2.1]

1.5 Water/Other Measurement Operations

Manual #	Description
1.5.1.1	No water production measurement. [<i>Directive 017 6.1</i> , 6.2.2.1, 7.1.1, 7.2.1, 7.3, 7.3.1, 7.3.3, 7.4, 7.4.1, 7.4.3, 12.1.5, 15.2.1]
1.5.2.1	No measurement of injected/disposed water or other substance(s). [OGCR 14.200; <i>Directive 017 1.7.3</i> (ii), (iv), 12.1.5, 15.2.4, 15.2.8]
1.5.3.1	Meter or product analyzer not installed in accordance with the requirements. [<i>Directive 017 2.6</i> , 14.6, 14.8.1]
1.5.4.1	Water meter not proved since installation, following repairs, or meter proving has expired. [<i>Directive 017 2.6</i> , 2.10]
1.5.5.1	Product analyzer calibration expired. [<i>Directive 017 2.11</i>]

1.6 Water/Other Measurement Administration

Manual #	Description
1.6.1.1	Water production not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3</i> , <i>Directive 017 15</i>]
1.6.2.1	Injection or disposition of water/other substance not reported to Petrinex. [OGCR 12.030(1); <i>Directive 007 2.3</i>]
1.6.3.1	Measurement device calibration/proving tag/detailed report not attached or does not meet requirements. [<i>Directive 017 2.6</i> (10), (11), Exemptions (1), 2.10]
1.6.4.1	Product analyzer tag/detailed report does not meet requirements. [<i>Directive 017 2.11</i>]

1.7 Spacing Operations

Manual #	Description
1.7.1.1	Flare stack or incinerator less than 100 metres from an occupied residence. [OGCR 8.080(3); <i>Directive 060 7.8</i> (3)]
1.7.2.1	Flare stack, or incinerator less than 25 metres, or enclosed combustors less than 10 metres, from oil or gas processing equipment. [OGCR 8.080(5); <i>Directive 060 7.8</i> (1)(c), 7.8(2)(c)]
1.7.3.1	Flare stack, or incinerator less than 50 metres, or enclosed combustors less than 10 metres, from a well or oil storage tank. [OGCR 8.080(5); <i>Directive 060 7.8</i> (1)(a)(b), 7.8(2)(a)(b)]
1.7.4.1	Flare pit, flare stack, or incinerator less than 100 metres from a surface improvement, except surveyed roadway or road allowance. [OGCR 8.080(3); <i>Directive 060 7.8</i> (3)]
1.7.5.1	Flare or incinerator less than 40 metres to a public roadway. [OGCR 8.080(3); <i>Directive 060 7.8</i> (3), footnote 18]
1.7.6.1	Flame type equipment placed or operated within 25 metres of a process vessel without adequate flame arrester. [OGCR 8.090(5), (8)]
1.7.7.1	Flame type equipment within 25 metres of a well, oil storage tank, or other source of ignitable vapour. [OGCR 8.090(4)]

Manual #	Description
1.7.8.1	Ventilation requirements not met for flame type equipment within the same building as a process vessel or source of ignitable vapour. [OGCR 8.090(6)]
1.7.9.1	Fire within 50 metres of a well, oil storage tank, or other source of ignitable vapour (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(2)]
1.7.10.1	Smoking within 25 metres of a well, separator, oil storage tank, or other source of ignitable vapour. [OGCR 8.120(1)]
1.7.11.1	Outer perimeter of tank dike to surface improvement (other than public roadway) less than 60 metres. [OGCR 8.030(4)]
1.7.12.1	Oil storage tank(s) to well less than 50 metres (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(3); <i>Interim Directive (ID) 91-03 4.1(1)</i>]
1.7.13.1	Internal combustion engine exhaust within 25 metres of a well, process vessel, oil storage tank, or source of ignitable vapours, not constructed to prevent flame emergence. [OGCR 8.090(9)(a)]
1.7.14.1	End of exhaust pipe from internal combustion engine is located within 6 metres of the well and/or is not directed away from the well. [OGCR 8.090(9)(b)]

1.8 Flaring, Incinerating, and Venting Operations

Manual #	Description
1.8.1.1	No flare or incinerator stack where one is required. [OGCR 7.060(1)–(3), 7.070(1), (3), (5), (6)]
1.8.2.1	Operating procedures and/or automatic shutdowns not in place where needed to control sour/acid gas flaring events. [<i>Directive 060 7.5(3)</i>]
1.8.3.1	Failure to meet solution gas reduction requirements during planned shutdowns and emergency events. [<i>Directive 060 2.11.1(1), (2), (table 1), 5.2(4)</i>]
1.8.4.1	Stack height or design does not meet requirements. [OGCR 7.060(4)(a), (7), 7.070(5), (6); <i>Directive 060 7.4</i>]
1.8.5.1	Pilot/ignition device(s) not available/operable where required. [OGCR 7.060(4)(c), 7.070(5); <i>Directive 060 7.3, 7.3.1(1), appendix 11</i>]
1.8.6.1	Insufficient heating value available to flare. [<i>Directive 060 7.1.1(1)</i>]
1.8.7.1	No wind guard on sour/acid gas flare when exit velocity is not sufficient. [OGCR 7.060(4)(b), 7.070(5)]
1.8.8.1	No flame arrester, equivalent safety device, or appropriate engineering and operating practices to prevent backflash where required. [OGCR 8.090(7); <i>Directive 060 7.7, 8.7(6)</i>]
1.8.9.1	No knockout drum or flare separator where required. [OGCR 7.060(4)(d), 7.070(5); <i>Directive 060 7.6(1), 7.6.1, 8.7(3)(b)</i>]
1.8.10.1	Knockout drum and/or flare separator controls, equipment, or design, does not meet requirements. [<i>Directive 060 7.6, 7.6.1</i>]
1.8.11.1	Exposed flame from an incinerator. [<i>Directive 060 7.1.2(1)(a), 7.4(1)(a)</i>]
1.8.12.1	Insufficient exit temperature, no automatic temperature shutdown, or no process temperature control and recording where required for incinerators. [<i>Directive 060 7.1.2 (2)–(4)</i>]
1.8.15.1	Exceeding well test flaring/incineration and venting limits. [<i>Directive 060 3.2</i>]
1.8.16.1	Flare pit not decommissioned by December 31, 2015, without exemption. [OGCR 8.080(4); <i>Directive 060 7.11</i>]
1.8.17.1	Total venting (routine and nonroutine) at a site is $>15.0 \times 10^3 \text{ m}^3/\text{month}$ or $> 9.0 \times 10^3 \text{ kg}$ of methane/month [<i>Directive 060 8.3(1)</i>]
1.8.18.1	Compressor testing points are not accessible or clearly identified [<i>Directive 060 8.6.2.1(3)</i>]
1.8.19.1	Level controllers are not designed to minimize venting. [<i>Directive 060 8.6.1(3)</i>]

Manual #	Description
1.8.20.1	Non-level controllers are not designed to minimize venting. [<i>Directive 060</i> 8.6.1(4)]
1.8.21.1	Reciprocating compressor is exceeding vent rate. [<i>Directive 060</i> 8.6.2.2(3)]
1.8.22.1	Centrifugal compressor is exceeding vent rate. [<i>Directive 060</i> 8.6.2.3(2)]
1.8.23.1	Glycol dehydrator is exceeding methane emissions limit. [<i>Directive 060</i> 8.6.3(2)]

1.9 Flaring, Incinerating, and Venting Administration

Manual #	Description
1.9.1.1	Failure to conduct dispersion modelling for flaring or incinerating gas with greater than 10 mol/kmol H ₂ S or 1 tonne per day of sulphur. [<i>Directive 060</i> 7.12(1), (2), 7.12.5(1)]
1.9.2.1	Decision tree or economic evaluation not completed or results not implemented for new, existing, and temporary flares, incinerators, and vents as required. [<i>Directive 060</i> 2.3 (figure 2), 2.5, 2.6, 2.9, 3.1(1), (2), (figure 3), 4.1(5), (figure 5), 5.1, (figure 6), 6.1, (figure 7), 7.11(5)]
1.9.3.1	Failure to keep flaring, incinerating, and venting logs as required. [<i>Directive 060</i> 5.3(3), 5.5(4), 10.1(1)(b)–(e), (2)]
1.9.4.1	Flaring or incinerating sour gas containing more than 50 mol/kmol H ₂ S without a permit where required. [OGCR 7.055; <i>Directive 060</i> 3.3.1(1), 3.3.2(2)–(4)]
1.9.5.1	Failure to comply with any condition of flaring permit or approval (temporary permits, volume allowance threshold exceedance permits, and blanket permits). [OGCR 7.055; <i>Directive 060</i> 3.3]
1.9.6.1	Failure to notify the appropriate AER field centre of flaring, incinerating, or venting events as required. [<i>Directive 060</i> 2.10(1), (2.11.1(4), 3.8(2), 4.2, 5.4, 6.4(1)–(3), table 1, table 2]
1.9.7.1	No resident notification and/or consultation. [<i>Directive 060</i> 2.6(7)(c)(d), 2.10(1), 2.11.1(4), 3.8(1), (4)–(7), 4.2(1), 5.4, 6.4(1), table 1, table 2]
1.9.8.1	Public information packages or resident notification information do not meet the requirements. [<i>Directive 060</i> 2.10.1, 3.8(4), (5)]
1.9.9.1	Licensee does not notify the appropriate AER field centre of any unresolved concerns/objections to temporary flaring event or well test. [<i>Directive 060</i> 3.8.1(2)]

1.10 Signs and Security Operations

Manual #	Description
1.10.1.1	Improper identification sign, sign not posted, improper warning symbol, or no warning symbol posted adjacent to all entrances to the developed area of the well. [OGCR 6.020(3), (5), (7)–(13), Schedule 12; <i>Directive 055</i> 2.6]
1.10.2.1	No or inadequate fence or alternative security measures where required. [OGCR 8.170, 8.171]
1.10.3.1	Licensee not ensuring vehicles do not operate within 3 metre radius of the wellhead. [OGCR 8.193]
1.10.4.1	The wellhead is not conspicuously marked or fenced so that it is visible in all seasons. [OGCR 8.192; <i>Directive 013</i> table 1; <i>Interim Directive (ID) 90-01</i> 7.3.5(8)]
1.10.5.1	Physical barrier that is clearly visible not constructed around critical sour well. [<i>Interim Directive (ID) 90-01</i> 7.3.5(9)]

1.11 Emergency Controls and Relief Systems Operations

Manual #	Description
1.11.1.1	Sour pressure relief valves at a well site >10 mol/kmol H ₂ S not tied into flare system. [OGCR 7.060(1)(3)]
1.11.10.1	Hot oil circulating string does not have a check valve in the injection line and an automatic shut-off valve on the return line (>50 mol/kmol H ₂ S). [OGCR 7.050(4)]
1.11.11.1	No subsurface safety valve in accordance with requirements where required. [OGCR 7.050(7), 8.060(b); <i>Interim Directive (ID) 90-01</i> 7.3.5(6)]
1.11.12.1	Well not on pump is located closer than 100 metres to normal high-water mark of a body of water or permanent stream does not have an automatically closing wellhead valve. [OGCR 8.060(a)]
1.11.13.1	No or inadequate surface casing vent. [OGCR 6.100, 7.050(3)]
1.11.2.1	Operating gas catalytic heater with inoperable safety shut off. [OGCR 8.090(8); <i>Occupational Health and Safety Regulation</i> , Part 1, 12(1)]
1.11.3.1	No high level and high pressure shutdown device installed on a separator, treater, or other pressure vessel which receives production from an oil well containing more than 10 mol/kmol H ₂ S. [OGCR 7.060(3.1)]
1.11.4.1	No or inadequate/inappropriate pop tank or alternate conditions not adhered to. [OGCR 8.031]
1.11.5.1	Well does not have a master valve as required or a flowing well at which the H ₂ S concentration exceeds 50 mol/kmol or critical sour well does not have two master valves. [OGCR 7.050 (3)(a), (3)(c), <i>Interim Directive (ID) 90-01</i> 7.3.5(3), 7.3.5(5)]
1.11.6.1	Sour pumping well capable of flow to atmosphere with a H ₂ S content of 10 mol/kmol or greater not equipped with hydraulic rod blowout preventer (BOP) and environmental BOP. [OGCR 7.080]
1.11.7.1	Well which produces gas containing more than 10 mol/kmol H ₂ S with a flow line gauge pressure exceeding 1400 kPa and does not have a mechanism installed on the wellhead that halts the flow of oil or gas in the event of an uncontrolled drop in pressure or an equipment failure. [OGCR 7.060(8)]
1.11.8.1	Critical sour well capable of flow to atmosphere does not have a surface safety valve. [<i>Interim Directive (ID) 90-01</i> 7.3.5(6)]
1.11.9.1	Critical sour well on rod pump does not have an environmental BOP on top of the stuffing box. [<i>Interim Directive (ID) 90-01</i> , 7.3.5(7)]

1.13 Measurement General

Manual #	Description
1.13.1.1	Measurement schematic not created, retained, or master copy not updated annually to reflect changes or deletions or confirming no change. [<i>Directive 017</i> 1.9.1, 1.9.2]
1.13.2.1	Reporting of all activities, products, volumes, and product movements submitted to Petrinex not accurate. [<i>Directive 007</i> 2.1.3(8), 2.1.4(10), 2.3(27)]

2 Storage

2.1 Pre-1996 AST and UST Exemptions

Manual #	Description
2.1.1.1	Tank farm area reconstruction does not meet requirements. [<i>Directive 055</i> 1.6.3(1)]
2.1.2.1	AST holding materials other than fresh water does not meet pre-96 dike requirements. [<i>Directive 055</i> 1.6.3(2)]
2.1.3.1	Single-walled aboveground storage tank $\geq 5\text{m}^3$ mechanical integrity not appropriately verified within the past five years. [<i>Directive 055</i> 1.6.3(3)]
2.1.4.1	Single-walled underground storage tank mechanical integrity not appropriately verified within past three years. [<i>Directive 055</i> 1.6.3(3)]
2.1.5.1	AST replacement or addition does not meet requirements. [<i>Directive 055</i> 1.6.3(5), 1.6.3(6)]
2.1.6.1	UST that failed mechanical integrity test still in service. [<i>Directive 055</i> 1.6.3(8)]

2.2 General

Manual #	Description
2.2.1.1	No notification as required by <i>Directive 055</i> . [<i>Directive 055</i> 2.1.1(13), 2.1.2(14), 3.4(50), 4.5(171)(c)]
2.2.2.1	Alternative storage method, system, device, or location without AER approval. [OGCR 8.030(3); <i>Directive 055</i> 2.1.3(16), 2.5(21), 2.5(22), 3.4(51), 3.7(67), 3.8(94)]
2.2.3.1	Storage exceeds one year duration. [<i>Directive 055</i> 2.4(19)]
2.2.4.1	Alternative water volume withdrawn within 12 months not equal or greater than the volume going into the storage device. [<i>Directive 055</i> 2.4(20)]
2.2.5.1	Storage systems and/or associated equipment do not meet spacing requirements specified in <i>Directive 055</i> . [<i>Directive 055</i> 2.6(23), 4.2.1(145)]
2.2.6.1	Concrete being used as primary containment. [<i>Directive 055</i> 1.6.4(9), 1.6.4(10), 1.6.4(11), 3(26), 3.6(58)]
2.2.7.1	Storage system differential settlement, freeze-thaw cycles, subgrade movement (including sinking, low spots, slumping, sloughing), or slope instability due to inadequate civil works. [<i>Directive 055</i> 4.6(173)]
2.2.8.1	Waste processing conducted in storage system. [<i>Directive 055</i> 5.5(190)]
2.2.9.1	Hydraulic fracturing operations storing non-water-based fluids, fluids containing hydrocarbons, or fluids containing H_2S in storage device. [<i>Directive 055</i> 5.5(190)]
2.2.10.1	Hydraulic fracturing operations did not direct fluids to a tank, or series of tanks, or other equipment prior to receiving flowback in the storage system. [<i>Directive 055</i> 5.5(191)]

2.3 Containers (Device Specific)

Manual #	Description
2.3.1.1	On-site volume of containers exceeds 1 m^3 without secondary containment. [<i>Directive 055</i> 3.1(27)]
2.3.2.1	Secondary containment for container(s) does not meet requirements. [<i>Directive 055</i> 3.1(28)(a)(b)(c)]
2.3.3.1	Container storage in trailers or buildings does not meet requirements. [<i>Directive 055</i> 3.1(28)(d)(e)(f)]
2.3.4.1	No or inadequate weather protection for containers. [<i>Directive 055</i> 3.1(29)]

2.4 AST/UST (Device Specific)

Manual #	Description
2.4.1.1	No secondary containment for open-topped tank where required. [Directive 055 3.2(34)]
2.4.2.1	Aboveground storage tank not constructed, designed, or operated as required. [Directive 055 3.2(30), 3.2(37), 3.2(38)]
2.4.3.1	Open-topped tank mechanical integrity not appropriately verified within the past five years. [Directive 055 3.2(35)]
2.4.4.1	Tank foundation and supports does not meet requirements. [Directive 055 3.2(32)]
2.4.5.1	Underground storage tank not constructed or operated appropriately. [Directive 055 3.3(40), 3.3(41), 3.3(44), 5.1(177)]
2.4.6.1	Flare/incinerator knockout or separator integrity testing does not meet requirements. [Directive 055 3.3(42), 4.3.1]
2.4.7.1	Newly installed UST and associated piping integrity testing not conducted. [Directive 055 3.3(43)]
2.4.8.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [Directive 055 3.2(32)]

2.5 BSF/LEE Bulk Pad (Device Specific)

Manual #	Description
2.5.1.1	BSF not constructed, designed, or operated as required. [Directive 055 3.4(45), 3.4(46), 3.4(49), 4.1.2(124)]
2.5.2.1	BSF not tested for integrity prior to use. [Directive 055 3.4(52)]
2.5.3.1	LEE not constructed, designed, or operated as required. [Directive 055 3.5(53), 3.5(54), 3.5(55)]
2.5.4.1	Pre-2002 LEE integrity not appropriately verified within past three years. [Directive 055 1.6.4(11)]
2.5.5.1	Bulk pad not constructed of compacted clay, synthetic liner, concrete, or asphalt as required. [Directive 055 3.6(56)]
2.5.6.1	Bulk pad does not incorporate a leachate collection or leak detection system where required. [Directive 055 3.6(56), 3.6(58)]
2.5.7.1	Stockpiled materials causing spillage off the bulk pad. [Directive 055 3.6(57)]
2.5.8.1	Bulk pad storage area curb or slope to catchment device does not meet requirements. [Directive 055 3.6(56)]

2.6 AWSS (Device Specific)

Manual #	Description
2.6.1.1	AWSS synthetic liner does not provide a continuous impervious layer. [Directive 055 3.7(60), 3.7(61)]
2.6.2.1	AWSS not designed, located, or operated to prevent the likelihood of a release occurring or ensure the consequences of a release are minimized. [Directive 055 3.7(59), 3.7.1.3(73)]
2.6.3.1	Maximum capacity of any single AWSS exceeds 6600 m ³ . [Directive 055 3.7.3(87)]
2.6.4.1	Collective usable capacity of AWSSs on a site exceeds 30 000 m ³ . [Directive 055 3.7.3(88)]
2.6.5.1	Minimum freeboard not appropriate or not maintained. [Directive 055 3.7.3(89), 3.7.3(90)(a)(b)(c)]
2.6.6.1	No or inadequate site-specific response plan. [Directive 055 3.7.4(93), 5.7(207)(c)]

Manual #	Description
2.6.7.1	Failure to test the integrity of AWSS before putting it into service or integrity of AWSS not maintained. [<i>Directive 055 3.7.4(92), 3.7.4(91)</i>]

2.7 ECP (Device Specific)

Manual #	Description
2.7.1.1	ECP does not have primary and/or a secondary containment system as required. [<i>Directive 055 3.8(99)(a)(b)(c)</i>]
2.7.2.1	Minimum freeboard of 1 metre not maintained. [<i>Directive 055 3.8(105)</i>]
2.7.3.1	ECP containment system(s) contain punctures. [<i>Directive 055 3.8(101)</i>]
2.7.4.1	Primary containment damage not prevented during equipment placement and maintenance activities. [<i>Directive 055 3.8(102)</i>]
2.7.5.1	Groundwater or soil monitoring not implemented as required by <i>Directive 058</i> . [<i>Directive 055 3.8(99)(f)(g); Directive 058 6.4(74)</i>]
2.7.6.1	Leakage not measured weekly to determine the actual monthly leakage rate. [<i>Directive 055 4.5(166)</i>]
2.7.7.1	Collected leakage not managed appropriately. [<i>Directive 055 4.5(167)</i>]
2.7.8.1	Allowable action leakage rate not monitored or managed as required. [<i>Directive 055 4.5(170), 4.5(171)</i>]

2.8 Liners and Dikes (All Storage Systems)

Manual #	Description
2.8.1.1	No dike and/or impervious liner where required. [<i>Directive 055 3.2(39), 3.7.1.2(71), 3.7.1.3(75), 4.1(109), 4.2(132), 4.2(140)</i>]
2.8.2.1	Liner does not meet requirements. [<i>Directive 055 3.4(47), 3.7(62), 3.7.1.1(69), 3.7.1.2(70), 3.7.1.2(73), 3.7.1.3(75)(a), 4.1(107), 4.1(108), 4.1(109), 4.1.1.1(115), 4.1.2(121), 4.2(140), 4.2(141)</i>]
2.8.3.1	Liner not protected from damage, degradation, or unauthorized access. [<i>Directive 055 4.1(110), 4.1.1(114), 4.1.2(129)</i>]
2.8.4.1	Dike contains openings or not designed to contain fluids. [<i>Directive 055 4.2(133)(a)(b)(c)</i>]
2.8.5.1	AWSS dike not designed to withstand wave impact from storage device failure. [<i>Directive 055 4.2(134)</i>]
2.8.6.1	Diked area volumetric capacity does not meet requirements. [<i>Directive 055 4.2(135), 4.2(136), 4.2(137)</i>]
2.8.7.1	Dike and secondary containment area not maintained in good condition or kept free from weeds, debris, and extraneous combustible material. [<i>Directive 055 4.2(138)</i>]
2.8.8.1	Diked area not graded to a sump or low-lying area. [<i>Directive 055 4.2(142)</i>]

2.9 Temporary Storage Operations

Manual #	Description
2.9.1.1	No diking or 1 metre impervious berm for storage where diking is not optional, exceeds three months, or where combined storage capacity exceeds 3000 m ³ . [<i>Directive 055 4.2.2(146), 4.2.2(148)</i>]
2.9.2.1	Temporary storage duration exceeds one year. [<i>Directive 055 4.2.2(146), 4.2.2(150)</i>]
2.9.3.1	Contaminated materials or materials possessing the potential to leach stored directly on the ground. [<i>Directive 055 4.2.2(147)</i>]
2.9.4.1	Temporary storage area synthetic liner not minimum of 15 mil. [<i>Directive 055 4.2.2(149)(a)</i>]

Manual #	Description
2.9.5.1	Temporary storage area synthetic liner not extended over the dike or keyed into the outside of the dike. [Directive 055 4.2.2(149)(a)]
2.9.6.1	Leachate in temporary storage area not managed. [Directive 055 4.2.2(149)(b)]
2.9.7.1	Underlying soil not assessed for temporary storage area used more than three months. [Directive 055 4.2.2(149)(c)]

2.10 Leak Detection (All Storage Systems)

Manual #	Description
2.10.1.1	No leak detection where required. [Directive 055 1.6.4(9), 1.6.4(11), 3.2(39), 3.6(58), 3.7.1.2(73), 3.7.1.3(75)(b)(c), 3.8(99)(e), 4.3.3(156), 4.3.7(163)]
2.10.2.1	Monitoring or sampling of collected leak detection liquids does not meet Directive 055. [Directive 055 1.6.3(4), 1.6.3(7), 1.6.4(10), 1.6.4(11), 3.2(31), 4.3.1(152), 4.3.1(153), 4.3.3(157), 4.3.4(158), 4.3.5(160), 4.3.6(162), 5.6(194)]
2.10.3.1	Leak detection for storage devices within a diked area does not allow leakage to move preferentially through the layer to a collection area. [Directive 055 4.3.2(155)]
2.10.4.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [Directive 055 3.2(32)]

2.11 Operational Controls (All Storage Systems)

Manual #	Description
2.11.1.1	Loading and unloading area(s) not designed to contain leaks/spills. [Directive 055 5.1(175)]
2.11.2.1	Spill control or spill control device(s) not used or not adequate where required. [Directive 055 3.2(39), 5.1(176), 5.1(180), 5.1(181)]
2.11.3.1	Storage device not protected from damage. [Directive 055 2.3(18)]
2.11.4.1	Required measures not incorporated to prevent overfilling of tanks. [Directive 055 5.1(178)]
2.11.5.1	Double-walled AST not equipped with a valve as close as practical to the tank. [Directive 055 5.1(179)]
2.11.6.1	Terrestrial or bird control measures not implemented as required. [Directive 055 5.2(182)(a), 5.2(182)(b)]
2.11.7.1	Wildlife fatalities or wildlife contact not reported as required. [Directive 055 5.2(182)(c)]
2.11.8.1	Terrestrial or bird control measures not adequately monitored or adapted as required. [Directive 055 5.2(183), 5.2(184)]
2.11.9.1	Operational controls not in place to prevent unwanted microbial and biological growth that may cause noxious substances in storage system. [Directive 055 5.3(185)]

2.12 Withdrawal of Storage Devices from Service

Manual #	Description
2.12.1.1	A tank taken out of service is not appropriately isolated or maintained. [Directive 055 5.6(192), 5.6(193)]
2.12.2.1	Tank out of service 180 days or less not emptied or monthly fluid level not recorded. [Directive 055 5.6(194)]
2.12.3.1	Tank taken out of service greater than 180 days not clearly marked as empty and out of service. [Directive 055 5.6(195)]
2.12.4.1	Tank taken out of service greater than 180 days does not have all fluids/solids/gases removed. [Directive 055 5.6(195)]

Manual #	Description
2.12.5.1	Tank out of service greater than one year, not verified for integrity prior to putting it back in service. [Directive 055 5.6(196)]
2.12.6.1	Non-permanent storage device is not removed, suspended, or verified as required. [Directive 055 3.7(65), 5.6.1(198)]
2.12.7.1	Soil contamination assessment or confirmatory soil sampling not conducted as required. [Directive 055 1.6.4(12), 5.6(197), 5.6.2(199)–(202)]

2.13 Inspections and Documentation

Manual #	Description
2.13.1.1	Storage system inspections not conducted at least monthly as required. [Directive 055 3.2(35), 5.7(204)]
2.13.2.1	Storage device inspections, monitoring, or documentation does not meet requirements. [Directive 055 3.2(32), 3.8(96), 4.2.1(144), 4.3(151), 4.3.1(154), 4.3.4(158), 5.7(206), 5.7(207)(a), 5.7(208), 5.8(211)]
2.13.3.1	No or inadequate storage device corrective actions as required. [Directive 055 1.6.4(12), 4.3.1(1543), 5.7(205), 5.7(207)(b), 5.7(209)(d)]
2.13.4.1	Inventory records not maintained or retained on site or at the local field office for two years. [Directive 055 5.8(210)]
2.13.5.1	Required documentation not retained for a minimum of five years. [Directive 055 5.8(211)]

3 Environment

3.1 Emissions Operations

Manual #	Description
3.1.1.1	H ₂ S emissions resulting in odours outside the lease boundary. [Directive 060 7.1(1), 8.8(1)–(3), 8.9]
3.1.2.1	Exceeding <i>Alberta Ambient Air Quality Objectives</i> . [Directive 060 3.3.2(2)(c), 7.1(1), 7.1.1(1), 7.4(3), 7.12(1), 7.12.2(4), 7.12.5(8), 8.7(3), 8.8(4), appendix 7(5)(b)]
3.1.3.1	Venting and/or fugitive emissions resulting in offensive hydrocarbon odours outside the lease boundary. [Directive 060 8.8(3)]
3.1.4.1	Routine combustion of gases results in continuous or repeat black smoke emissions. [OGCR 7.040(1), 9.050(6)(d); Directive 060 7.1(2), 7.2(1)(a)]
3.1.5.1	Individual dehydrator(s) or site dehydrator benzene emissions over the limits. [Directive 039 3, 4]
3.1.6.1	Annual methane emission report is not accurate [Directive 060 8.2(1)(2), 8.4.1(1), 8.6.1.2(1), 8.6.2.4(1), 8.10.5(1); Directive 039 5.1(40)]
3.1.7.1	Fugitive emissions have not been repaired within the appropriate timeframe. [Directive 060 8.10.4(1)(2)]

3.2 Emissions Administration

Manual #	Description
3.2.1.1	Noise complaint response/procedures not conducted in accordance with requirements. [Directive 038 4]
3.2.2.1	Failure to notify resident(s) within 750 metres of a dehydrator (for new, relocated, or existing glycol dehydrators). [Directive 039 2.2]
3.2.3.1	Dehydrator engineering and operations sheet (DEOS) not done, incomplete/inaccurate, and/or not posted. [Directive 039 5.1, 5.2]

3.3 Waste Management

Manual #	Description
3.3.1.1	Site not maintained in a clean condition. [OGCR 8.150(4)]
3.3.2.1	No AER approval where required for waste management activity. [OGCA 39(1)(g); OGCR 8.150(2)(f), 8.150(3)(a), 8.152; Directive 058 5.0, 7.2(107), 7.2(108), 7.2(109), 7.3(113), 7.4(115), 7.5(126), 7.5(127), 7.6(130), 7.6.1(131), 7.6.2(142), 7.7(147), 9(163), 9.4(170), 9.10(183), 10.3(198)]
3.3.3.1	Waste management activity AER approval condition not met. [OGCR 8.150(2)(f), 8.150(3)(a); specific application and/or approval]
3.3.4.1	Waste sent to site not authorized to accept it. [OGCR 8.150(2)(b)(c); Directive 058 7.5(125), 10.3(197)]
3.3.5.1	Waste characterization not completed or not adequate to classify the waste. [OGCR 8.150(2)(a); Directive 058 2(3); Waste Control Regulation]
3.3.6.1	Oilfield waste was not properly classified as either dangerous (DOW) or non-dangerous (non-DOW). [OGCR 8.150(2)(a); Directive 058 2(3), 2(4); Waste Control Regulation]
3.3.7.1	Oilfield wastes not characterized/classified prior to adding amendments, mixing, or diluting. [OGCR 8.150(2)(a); Directive 058 2(5), 2(6)]
3.3.8.1	Oilfield waste generator does not disclose characteristics or classification of oilfield wastes to waste carriers or receivers. [OGCR 8.150(2)(e)]
3.3.9.1	Waste tracking system not in place or tracking system does not maintain accurate and complete documentation and records. [OGCR 8.150(2)(d); Directive 058 3.3(19), 3.3(20)]
3.3.10.1	Oilfield waste was not properly identified (waste code). [OGCR 8.150(2)(d); Directive 058 3(9), appendix 2]
3.3.11.1	Shipping document not used during transportation of waste. [Directive 058 3(7)]
3.3.12.1	Shipping document does not include adequate information, including the waste code, the waste source, and the waste generator's contact information. [Directive 058 3(9), 3.1(12)]
3.3.13.1	AER's waste form not utilized, incomplete, or not adequate. [Directive 058 3.1(10), 3.1(11), 3.1(12), 3.1(13)]
3.3.14.1	Oilfield waste generator does not notify the AER as required for discrepancy. [Directive 058 3.2(15), 3.2.1(17)]
3.3.15.1	Oilfield waste generator does not investigate, reconcile, or take corrective action as required for discrepancy. [Directive 058 3.2(14), 3.2.1(17)]
3.3.16.1	Shipping documents or tracking information not retained by generator for a minimum of two years. [Directive 058 3.3(21)]
3.3.17.1	Storage or consolidation of small volumes of waste in bin/bag system does not meet requirements. [Directive 058 7.2(107)]
3.3.18.1	Oilfield wastes being burned. [OGCR 8.152, Directive 058 5]
3.3.19.1	Not monitoring or managing waste containing NORMs in accordance with the <i>Canadian Guidelines for the Management of Naturally Occurring Radioactive Materials</i> . [Directive 058 10.3(197)]
3.3.20.1	Oilfield waste biodegradation not conducted according to requirements. [Directive 058 4.1(29)–(32), 4.1.1(36)–(47), 4.1.2(49)–(56)]
3.3.21.1	Treatment not concluded/closed within 5 years or unsuccessfully treated waste not removed within five years. [Directive 058 4.1(28), 4.1.1(35), 4.1.2(54), 4.1.2(55), 7.4(122)]
3.3.22.1	Biodegradation notification or records keeping does not meet requirements. [Directive 058 4.1(33), 4.1.1(48), 4.1.2(57), 4.1.2(58), 7.4(123), 7.4(124)]
3.3.23.1	Mobile thermal treatment unit not operating according to requirements. [Directive 058 4.2, Specific permit, licence, application, or approval]
3.3.24.1	Thermally treating oilfield wastes originating from sites outside the same production system. [Directive 058 4.2(60)]

Manual #	Description
3.3.25.1	No AER notification as required. [<i>Directive 058</i> 4.2.1(61), 4.2.1(63)]
3.3.26.1	Landowners or residents not notified as required. [<i>Directive 058</i> 4.2.1(61)]

3.4 Spills

Manual #	Description
3.4.1.1	Well closer than 100 metres to the normal high water mark of a body of water or permanent stream without appropriate protective measures. [OGCR 8.060]
3.4.2.1	Spill or release not contained/cleaned up. [OGCR 8.050(1), 8.051(b)]
3.4.3.1	No notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140;]
3.4.4.1	Late notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140;]

3.5 Surface Water

Manual #	Description
3.5.1.1	Release criteria of collected surface water not met prior to release to adjacent lands. [<i>Directive 055</i> 4.2(143), 5.4(186), 5.4(187), 5.4(188)]
3.5.2.1	Site contouring does not prevent surface water collection on the ground immediately surrounding secondary containment system. [<i>Directive 055</i> 4.2(131)]
3.5.3.1	Surface water not prevented from collecting around an AWSS. [<i>Directive 055</i> 3.7(66)]
3.5.4.1	Collected surface waters discharged into a watercourses or water body. [<i>Directive 055</i> 5.4(189)]
3.5.5.1	Surface water that meets the surface discharge criteria disposed to injection/disposal well. [<i>Directive 051</i> 2.3]

4 Liability Management

4.1 Suspension Operations

Manual #	Description
4.1.1.1	Improper suspension for given well type (if suspended to lower risk level). [<i>Directive 013</i> 3, table 1]
4.1.2.1	All wellhead valves are not chained and locked or valve handles not removed. [<i>Directive 013</i> 2.3.2]
4.1.3.1	All outlets (except surface casing vents) not bull plugged or blind flanged with needle valves. [<i>Directive 013</i> 2.3.2]
4.1.4.1	Inactive well not suspended within 12 months from the <i>Directive 013</i> inactive status date. [<i>Directive 013</i> 2.1]

4.2 Suspension Administration

Manual #	Description
4.2.1.1	Failure to report the initial suspension and ongoing inspections to the AER as required. [<i>Directive 013</i> 2.5, table 1]

4.3 Abandonment Operations

Manual #	Description
4.3.1.1	Failure to conduct abandonment operations in accordance with a nonroutine approval. [Directive 020 2.1]
4.3.10.1	Failure to fill the wellbore with the required fluid. [Directive 020 4.1, 4.3, 4.4, 5.2]
4.3.11.1	Failure to abandon each completed pool separately and cover all nonsaline groundwater with cement. [Directive 020 5]
4.3.12.1	Failure to abandon cased-hole wells not penetrating oil sands zones in accordance with requirements. [Directive 020 5.3]
4.3.13.1	Failure to abandon cased-hole wells penetrating oil sands zones in accordance with requirements. [Directive 020 5.4)]
4.3.14.1	Failure to conduct a fluid level test to determine if there are any leaking plugs. [Directive 020 7.2)]
4.3.15.1	Failure to conduct surface abandonment operations immediately following confirmation of a successful reabandonment of a leaking well. [Directive 020 3.3)]
4.3.16.1	Failure to complete surface abandonment within specified timeframe. [Directive 020 4.6, 8]
4.3.17.1	Failure to conduct cut and cap operations in accordance with requirements. [Directive 020 8.1]
4.3.18.1	Failure to complete surface equipment removal and cleanup activities within 12 months. [Directive 020 8]
4.3.2.1	Failure to abandon a well with existing zonal abandoned Level-A interval in accordance with the requirements. [Directive 020 3.2]
4.3.3.1	Failure to repair and reabandon a leaking well. [Directive 020 3.3]
4.3.4.1	Failure to abandon a reentry well from the reentry depth to surface. [Directive 020 3.4]
4.3.5.1	Failure to set cement plugs as required. [Directive 020 4]
4.3.6.1	Failure to use a cement blend that meets the requirements. [Directive 020 4.1, 4.2, 5.3, 5.4.1]
4.3.7.1	Failure to locate a cement plug using one of the approved methods. [Directive 020 4.5, 5.3 to 5.5, 6]
4.3.8.1	Failure to correct a misplaced cement plug. [Directive 020 4.5)]
4.3.9.1	Failure to conduct remedial cementing operations as required. [Directive 020 4.1, 4.3, 4.4, 5.1, 5.5.1]

4.4 Abandonment Administration

Manual #	Description
4.4.1.1	Failure to review the existing cement behind the casing as required. [Directive 020 5.1]
4.4.2.1	Failure to have written AER approval prior to reentering a previously abandoned well. [Directive 020 3.3]
4.4.3.1	Failure to leave well open for a visual inspection in the designated site inspection region prior to cutting and capping. [Directive 020 7.2)]
4.4.4.1	Failure to inform affected parties or the AER prior to abandonment activities as required. [Directive 020 2.2]
4.4.5.1	Failure to report surface abandonment to the DISS within 30 days of completing the operation. [Directive 020 2.3]

4.5 Licensing Administration

Manual #	Description
4.5.1.1	No licence obtained prior to construction of a facility or well, or incorrectly licensed facility or well. [OGCA 11(1)(a), 12(1)(a); OGCR 7.001, 7.002(1)(2), 7.003; <i>Directive 056</i> 5.1, table 5.1, 7.1, table 7.1]

5 Well Site Inspections Specific

5.1 Injection/Disposal Wells Operations

Manual #	Description
5.1.1.1	Disposal/injection well accepting prohibited waste streams. [<i>Directive 051</i> 2.3]
5.1.2.1	Class 1a well has <500 kPa positive pressure or no fluid level detection system on the annulus. [<i>Directive 051</i> 8.2]
5.1.3.1	Exceeding maximum injection rates. [OGCA 39(1)(d); see specific approval]
5.1.4.1	Exceeding maximum operating pressure. [OGCA 39(1); <i>Directive 051</i> 8.1(Class III); see specific approval]
5.1.5.1	Injected gas stream exceeds specified mole fraction of H ₂ S level. [OGCA 39(1); see specific approval]
5.1.6.1	Failure to monitor for the breakthrough of acid gas at a producing well. [OGCA 39(1); see specific approval]

5.2 Injection/Disposal Wells Administration

Manual #	Description
5.2.1.1	Injection without an approval. [OGCA 39(1)(d); <i>Directive 051</i> 3; <i>Directive 065</i> 4.2.2]

5.3 SCVF/GM Operations

Manual #	Description
5.3.1.1	Failure to repair a serious SCVF/GM. [<i>Directive 087</i> 3.4]
5.3.2.1	Failure to perform SCVF/GM tests as required. [<i>Directive 020</i> 7.1, 7.3; <i>Directive 087</i> 3.2.1, 3.2.2]

5.4 SCVF/GM Administration

Manual #	Description
5.4.1.1	Failure to report a known SCVF/GM. [<i>Directive 087</i> 3.3]

5.5 Isolation Packer Operations

Manual #	Description
5.5.1.1	Failure to complete packer testing as required. [<i>Directive 087</i> 2.1]
5.5.2.1	Failure to perform repairs and report repair results to the AER within 90 days of detection. [<i>Directive 087</i> 2.2]
5.5.3	Failure to develop an effective monitoring program or investigate indications of a well integrity failure. [<i>Directive 087</i> 2.1.1]
5.5.4	Packer isolation testing procedure does not meet requirements. [<i>Directive 087</i> 2.1.2]

5.8 Casing Failure Administration

Manual #	Description
5.8.1.1	Failure to repair a casing failure. [<i>Directive 087 5.1</i>]

6 Emergency Planning and Assessment

6.1 Information

Manual #	Description
6.1.1.1	Failure to provide information as requested by the regulator [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 1.4</i>]

6.2 Corporate-level ERPs

Manual #	Description
6.2.1.1	Failure to have a corporate level ERP [OGCR 8.002; <i>Directive 071 2.1(1)</i>]
6.2.10.1	Failure to outline procedures for activating and reception centre [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.5(10), 5.12(24)</i>]
6.2.2.1	Failure to include information specified in section 2.1 [OGCR 8.002; <i>Directive 071 2.1(2)</i>]
6.2.3.1	Failure to ensure 24-hour emergency number initiates immediate action [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1(3)</i>]
6.2.4.1	Failure to ensure 24-hour emergency number is posted at primary entrance to facility [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1(4)</i>]
6.2.5.1	Failure to have information required by appendix 4 of <i>Directive 071</i> [OGCR 8.003, 8.004; <i>Directive 071 2.1.1(5) and 5.1(1)</i>]
6.2.6.1	Failure to define appropriate actions that would be taken for each level of emergency [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.1(6), 5.1(2)</i> ,]
6.2.7.1	Failure to include the specified information in the communications plan [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.2(7), 5.8(19)</i>]
6.2.8.1	Failure to identify roles and responsibilities of personnel [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071, 2.1.3(8)</i>]
6.2.9.1	Failure to describe how an emergency will be managed and coordinated [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 2.1.4(9), 5.10(22)</i>]

6.3 Emergency Planning and Response Zones

Manual #	Description
6.3.1.1	Failure to adjust the actual size and shape of the EPZ. [OGCR 8.003, 8.004; <i>Directive 071 3.1(1)</i>]
6.3.2.1	Failure to use ERCBH2S properly. [OGCR 8.003, 8.004; <i>Directive 071 3.2(2)</i>]
6.3.3.1	Failure to submit CSV batch report file from ERCBH2S. [OGCR 8.003, 8.004; <i>Directive 071 3.2(3)</i>]

6.4 Public and Local Authority Involvement

Manual #	Description
6.4.1.1	Failure to carry out public and local authority notification and consultation and for situations outlined in table 8. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.1(1), 13.1</i>]
6.4.1.2	Failure to notify and or consult with those listed in table 3. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.3(8)</i>]

Manual #	Description
6.4.1.3	Failure to notify residents of urban centres. [OGCR 8.004, 8.005; <i>Directive 071 4.3(10)</i>]
6.4.2.1	Failure to include entire urban density development in public involvement program. [OGCR 8.004, 8.005; <i>Directive 071 4.2(3)</i>]
6.4.2.10	Failure to confirm and coordinate roles and responsibilities with local authorities, directors of emergency management for all municipalities and the health authority or applicable federal health branch. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(5)</i>]
6.4.2.2	Failure to conduct public involvement program in accordance with section 4.3. [OGCR 8.004, 8.005; <i>Directive 071 4.3(9)</i>]
6.4.2.3	Failure to contact or provide information package to impacted parties. [OGCR 8.004, 8.005; <i>Directive 071 4.3(11)</i>]
6.4.2.4	Failure to develop and provide public information package to persons in table 3. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(12)</i>]
6.4.2.5	Failure to provide the requisite information in the public information package. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(13)</i>]
6.4.2.6	Failure to provide public information package to local AER field centre. [OGCR 8.004, 8.005; <i>Directive 071 4.3.1(14)</i>]
6.4.2.7	Failure to attempt to obtain personal information for ERP. [OGCR 8.004, 8.005; <i>Directive 071 4.4(15)</i>]
6.4.2.8	Failure to consider residents unwilling to provide personal information as having special needs. [OGCR 8.004, 8.005; <i>Directive 071 4.4(16)</i>]
6.4.2.9	Failure to identify all residents and local authorities within and adjacent to the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(2)</i>]
6.4.3.1	Failure to contact appropriate urban director of emergency management. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(4)</i>]
6.4.3.2	Failure to confirm and coordinate roles and responsibilities with local authorities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.2(6)</i>]
6.4.3.3	Failure to attempt to reach a mutual understanding with local authorities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.3(7)</i>]
6.4.4.1	Failure to attempt to obtain the public involvement program information required in section 4.4 and incorporate it into ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 4.4(14)</i>]

6.5 Common Requirements for ERPs

Manual #	Description
6.5.1.1	Failure to include specific procedures for notification within EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.1(3)</i>]
6.5.10.1	Failure to have a listing of equipment. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.4(13)</i>]
6.5.11.1	Failure to include telephone list of all key internal personnel or external emergency support. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.6(14)</i>]
6.5.12.1	Failure to distribute copies of ERP or ERP supplement to those listed in appendix 5 within 10 days of approval. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(15)</i> , 7.3.3(11), 8.3.2(9), 9.3.1(7)]
6.5.12.2	Failure to provide a copy of the ERP to a resident within EPZ upon written request. [OGCR 8.004, 8.005; <i>Directive 071 5.7(16)</i>]
6.5.12.3	Failure to ensure that all plan holders have a copy of the approved ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(17)</i>]
6.5.12.4	Failure to ensure that a plan distribution list is included in the ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.7(18)</i>]

Manual #	Description
6.5.13.1	Failure to have a bridging paragraph in the ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.8 (20)</i>]
6.5.14.1	Failure to identify roles and responsibilities of personnel or their names. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.9 (21)</i>]
6.5.15.1	Failure to have a process for recording the information for the activities. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.11 (23)</i>]
6.5.16.1	Failure to include procedures to downgrade and stand down levels of emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.13 (25)</i>]
6.5.2.1	Failure to address how evacuation of the response zones will be accomplished. [8.004, 8.005; <i>Directive 071 5.2.2(4)</i>]
6.5.3.1	Failure to address assistance with transportation needs or changes in normal notification procedures in evacuating public facilities. [OGCR 8.004, 8.005; <i>Directive 071 5.2.2(5)</i>]
6.5.4.1	Failure to include appropriate shelter in place instructions in public information package or ERP. [OGCR 8.004, 8.005; <i>Directive 071 5.2.2(6)</i>]
6.5.5.1	Failure to address how notification and evacuation will take place outside of the EPZ. [OGCR 8.004, 8.005; <i>Directive 071 5.2.3(7)</i>]
6.5.6.1	Failure to include ignition procedures and or ignition authority. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.4.1(8)</i>]
6.5.6.2	Failure to include ignition policy. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.4.2 (9)</i>]
6.5.7.1	Failure to include isolation procedures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.5(10)</i>]
6.5.8.1	Failure to provide details surrounding activation or air quality monitoring. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 5.2.6(11)</i>]
6.5.9.1	Failure to clearly identify specified information on the ERP map. [OGCR 8.004, 8.005; <i>Directive 071 5.3(12)</i>]

6.6 Sour Well Site-Specific Drilling and/or Completion ERPs

Manual #	Description
6.6.1.1	Failure to submit for approval site specific drilling and or completions ERP. [OGCR 8.004, 8.005; <i>Directive 071 6.1(1)</i>]
6.6.2.1	Failure to ensure site-specific ERP addresses requirements in section 6.2. [OGCR 8.004, 8.005; <i>Directive 071 6.2(2)</i>]
6.6.3.1	Failure to ensure that critical sour well ERP addresses requirements in section 6.3. [OGCR 8.004, 8.005; <i>Directive 071 6.3(3)</i>]
6.6.4.1	Failure to ensure that non-critical sour well ERP addresses requirements in section 6.4. [OGCR 8.004, 8.005; <i>Directive 071 6.4(4)</i>]
6.6.5.1	Failure to leave all components of wellhead on the ERP is approved and on site. [OGCR 8.004, 8.005; <i>Directive 071 6.5(5)</i>]

6.7 Sour Operations and HVP Cavern Storage ERPs

Manual #	Description
6.7.1.1	Failure to have an approved ERP in situations where required. [OGCR 8.004, 8.005, 8.006; <i>Directive 071 7.1(1), 8.1.(1), 9.1(1)</i>]
6.7.1.2	Failure to have an ERP approved prior to commencement of operations. [<i>Directive 071 7.1(2), 8.1(2), 9.1(2)</i>]
6.7.2.1	Failure to address the requirements for ERP content. [OGCR 8.004, 8.005, 8.006; <i>Directive 071 7.2(3), 8.2(3), 9.2(3)</i>]

6.8 Supplements

Manual #	Description
6.8.1.1	Failure to submit the requisite information in the supplement to the Regulator. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(6), 8.3(4), 9.3(4)]
6.8.2.1	Failure to submit a supplement for review and approval. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(4), 8.3.1(5), 8.3.2(7), 9.3.1(5)]
6.8.3.1	Failure to conduct a public involvement program for all members of the public in the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3(5), 7.3.1(7), 8.3.1(6), 8.3.2(8) 9.3.1(6)]
6.8.4.1	Failure to provide required plan holders with the approved supplement and copy of the current ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 7.3.3(12), 8.3.3(10), 9.3.2(8)]
6.8.5.1	Failure to ensure that a copy of the approved sour operations ERP and supplement is on site during all drilling and completion operations. [OGCR 8.004, 8.005; <i>Directive 071</i> 7.3.1(8), 7.3.2(9)]
6.8.6.1	Failure to leave all components of the wellhead until the supplement has been approved and is on site. [OGCR 8.004, 8.005; <i>Directive 071</i> 7.3.2(9)]

6.9 Spill Response

Manual #	Description
6.9.1.1	Failure of a non-member of an oil spill cooperative to have an approved plan in place to address a release of liquid product onto land or water. [<i>Directive 071</i> 10.3.1(1)]
6.9.2.1	Failure of a non-member of an oil spill cooperative to meet spill response equipment requirements. [<i>Directive 071</i> 10.3.2(2)]

6.10 Implementation of Corporate ERPs

Manual #	Description
6.10.1.1	Failure to have an up-to-date copy of the ERP at a response location. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1(1)]
6.10.2.1	Failure to review the ERP assigned roles and responsibilities with personnel. [OGCR 8.004, 8.005; <i>Directive 071</i> 11.1(2)]
6.10.3.1	Failure to use the assessment matrix to classify and incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.1(3), 14.2(2)]
6.10.4.1	Failure to take appropriate actions including public protection measures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.2.(3)]
6.10.5.1	Failure to contact the regulator after activating internal response resources to confirm level of emergency and specifics of incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.1(4), 14.2(4)]
6.10.6.1	Failure to contact local authorities or support services if a release has the potential to impact public or if the media has been contacted. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.2(5), 14.5(18)]
6.10.7.1	Failure to provide the information in appendix 8 to the public as soon as possible during an incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.2(6), 14.5(19)]
6.10.8.1	Failure to consult with the regulator prior to making the decision to downgrade or stand-down an emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.2.1(7), 14.5.1(20)]
6.10.9.1	Failure to keep all affected persons and the media informed of the status of an emergency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 11.1.2.1(8), 14.5.1(21)]

6.11 Implementation of Emergency Planning and Response Zones

Manual #	Description
6.11.1.1	Failure to ensure that on site supervisory personnel are aware of the size of the EPZ. [OGCR 8.004, 8.005; <i>Directive 071 12.1(1)</i>]
6.11.2.1	Failure to attempt to evacuate residents from the IIZ if safe to do so. [OGCR 8.004, 8.005; <i>Directive 071 12.3.1</i>]

6.12 Implementation of Public and Local Authority Involvement

Manual #	Description
6.12.1.1	Failure to carry out public and local authority notification and consultation for situations outlined in table 8. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 13.1(1)</i>]
6.12.2.1	Failure to attempt to evacuate residents from the IIZ, where safe to do so. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 12.2.1(2)</i>]

6.13 Implementation for Common Requirements of ERPs

Manual #	Description
6.13.1.1	Failure to have an up-to-date copy of the ERP available at a response location. [OGCR 8.004, 8.005; <i>Directive 071 14.1(1)</i>]
6.13.10.1	Failure to ensure that equipment identified in ERP is available and located where specified. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.4(16)</i>]
6.13.11.1	Failure to ensure that company equipment is operational and calibrated. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.4(17)</i>]
6.13.12.1	Failure to demonstrate the plan management system ensures up-to-date ERPs. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.6(22)</i>]
6.13.13.1	Failure to conduct a public awareness program every second year with residents within the EPZ. [<i>Directive 071 14.6(23)</i>]
6.13.14.1	Failure to distribute changes that are instrumental in implementing ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.6(24)</i>]
6.13.15.1	Failure to correct errors identified by stakeholders. [OGCR 8.004, 8.005; <i>Directive 071 14.6(25)</i>]
6.13.16.1	Failure to activate reception centre in appropriate locate or meet and register evacuees. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.8(26)</i>]
6.13.17.1	Failure to provide training sessions to ensure response personnel competency. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.9(27)</i>]
6.13.18.1	Failure to test the ERP through tabletop or major exercises. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(28)</i>]
6.13.19.1	Failure to notify the appropriate AER field centre 30 days in advance of a scheduled exercise. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(29)</i>]
6.13.19.2	Failure to invite other government agencies to participate and or observe at major exercises. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.10(29)</i>]
6.13.2.1	Failure to carry out the notification requirements within the EPZ. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.3.1(5), (6)</i>]
6.13.20.1	Failure to have process for recording the information for the activities in section 14.11. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 17.11(30)</i>]
6.13.21.1	Failure of the new licensee to contact the regulator within 30 days of the transfer of licence. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.12(31)</i>]
6.13.22.1	Failure to ensure that the emergency response procedures in place will not be compromised prior to approval of new ERP. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071 14.12(32)</i>]

Manual #	Description
6.13.3.1	Failure to advise the public within the EPZ of the appropriate public protection measures. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.3.1(7)]
6.13.4.1	Failure to assess and act on the need to expand the evacuation area as dictated by the specifics of the incident. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.3.3(8)]
6.13.5.1	Failure to comply with ignition criteria outlined in section 14. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.3.6.1(9), 14.3.6.2(11)]
6.13.5.2	Failure to take into account the specified factors when making the decision to ignite. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.3.6.2(10)]
6.13.6.1	Failure to ensure manned roadblocks are in place. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.3.7(12)]
6.13.7.1	Failure to meet the air quality monitoring requirements for critical sour wells. [OGCR 8.004, 8.005; <i>Directive 071</i> 14.3.8.1(13)]
6.13.8.1	Failure to meet the air quality monitoring requirements for non-critical sour wells. [OGCR 8.004, 8.005; <i>Directive 071</i> 14.3.8.1(14)]
6.13.9.1	Failure to investigate the source of a release or send out monitoring units. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 14.3.8.2(15)]

6.14 Implementation of Sour Well Site-Specific Drilling and/or Completion ERPs

Manual #	Description
6.14.1.1	Failure to conduct a meeting prior to entering first sour zone. [OGCR 8.004, 8.005; <i>Directive 071</i> 15.1(1)]
6.14.2.1	Failure to conduct a critical sour meeting prior to entering the critical sour zone. [OGCR 8.004, 8.005; <i>Directive 071</i> 15.1(2)]
6.14.3.1	Failure to advise the regulator in advance or pre sour or critical sour meeting. [OGCR 8.004, 8.005; <i>Directive 071</i> 15.1(3)]
6.14.4.1	Failure to provide prior notice to local authority of critical sour zone meeting. [OGCR 8.004, 8.005; <i>Directive 071</i> 15.1(4)]
6.14.5.1	Failure to ensure critical sour zone equipment is located as specified prior to entering zone. [OGCR 8.004, 8.005; <i>Directive 071</i> 15.2.1(5)]
6.14.6.1	Failure to ensure the equipment identified in ERP is located where specified prior to operation. [OGCR 8.004, 8.005; <i>Directive 071</i> 15.2.1(6)]

6.15 Implementation of Spill Response Plans

Manual #	Description
6.15.1.1	Failure of a member of oil spill cooperative to attend a training exercise or complete a spill responder course. [OGCR 8.006; <i>Directive 071</i> 16.1.1(1)]
6.15.2.1	Failure of a non-member of an oil spill cooperative to conduct exercise. [OGCR 8.006, 8.052; <i>Directive 071</i> 16.2.1(4)]
6.15.3.1	Failure of a non-member of an oil spill cooperative to demonstrate the same competencies as an oil spill cooperative member. [OGCR 8.006, 8.052; <i>Directive 071</i> 16.2.1(5)]
6.15.4.1	Failure to ensure good standing with an oil spill cooperative as required by <i>Directive 071</i> . [OGCR 8.006, 8.052; <i>Directive 071</i>]

6.16 24-hour Emergency Number

Manual #	Description
6.16.1.1	Failure to ensure 24-hour emergency number initiates immediate action. [OGCR 8.002, 8.003, 8.004, 8.005; <i>Directive 071</i> 4.3.1, 7.2, 8.2, and 9.2]

6.17 ERPs Pre-April 8, 2008

Manual #	Description
6.17.1.1	Operator not communicating with residents in the emergency planning zone (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 2.2.1; <i>Bulletin 2008-15</i>]
6.17.2.1	Copy of ERP not readily available (ERPs in existence prior to April 8, 2008). [<i>Directive 071</i> , 2005 edition, 4.2.1, 4.2.2, 4.2.2.1; <i>Bulletin 2008-15</i> 2]

7 Directive 084

7.1 General

Manual #	Description
7.1.1.1	Failure to provide documents, records, or plans or any additional documents, records, or plans. [<i>Directive 084</i> 2(1)]

7.2 Routine and Nonroutine Venting

Manual #	Description
7.2.1.1	Failure to capture and flare, incinerate, or conserve all solution gas unless otherwise directed by the AER. [<i>Directive 084</i> 3.2(2)]
7.2.2.1	Failure to implement suitable and functional control to prevent nonroutine venting. [<i>Directive 084</i> 3.2(3)]

7.3 Limitations on Nonroutine Flaring

Manual #	Description
7.3.1.1	Nonroutine flaring volumes in exceedance of 3.0 per cent of total gas production volumes in any calendar year. [<i>Directive 084</i> 4.2(4)]

7.4 Gas Conservation

Manual #	Description
7.4.1.1	Failure to achieve a cumulative gas conservation rate of at least 95.0 per cent unless otherwise directed by the AER. [<i>Directive 084</i> 5.2(6), (7)]

7.5 Fugitive Emissions

Manual #	Description
7.5.1.1	Failure to develop, document and implement a fugitive emissions management program that meet the requirements of <i>Directive 084</i> . [<i>Directive 084</i> 6.2.1(8)]
7.5.11.1	Failure to use reliable and appropriate leak detection techniques or equipment when conducting leak inspections or surveys. [<i>Directive 084</i> 6.2.3(19)–(21)]
7.5.12.1	Failure to quantify leak rates when required. [<i>Directive 084</i> 6.2.4(22)]
7.5.13.1	Single point measurement uncertainty greater than 25 per cent when quantifying leaks. [<i>Directive 084</i> 6.2.4(23)]

Manual #	Description
7.5.14.1	Licensee did not immediately start addressing a leak upon detection or leaks were not repaired immediately as required or within the required time frame. [<i>Directive 084 6.2.5(25)–(28)</i>]
7.5.17.1	Licensee does not confirm component is no longer leaking prior to reactivation. [<i>Directive 084 6.2.5(29)</i>]
7.5.18.1	Failure to clearly identify the leak for subsequent repair and repair confirmation. [<i>Directive 084 6.2.5(30)</i>]
7.5.19.1	Failure to submit a monthly leak report to the AER. [<i>Directive 084 6.2.6.1(31)</i>]
7.5.2.1	Failure to develop, document and implement plans to accurately identify leaking components. [<i>Directive 084 6.2.2(9)</i>]
7.5.20.1	Failure to submit annual FEMP analysis report to the AER. [<i>Directive 084 6.2.6.2(32)</i>]
7.5.21.1	Licensee does not have a quality-assurance/quality-control (QA/QC) program. [<i>Directive 084 6.2.7(3), 6.2.7.1(34), 6.2.7.2(35)</i>]
7.5.22.1	Failure to retain records of all surveys, inspections, leak detection and quantification results and procedures, leak repairs, QA/QC programs, and reports. [<i>Directive 084 6.2.8(36)</i>]
7.5.23.1	Fugitive emissions records do not meet requirements. [<i>Directive 084 6.2.8(37)</i>]
7.5.3.1	FEMP does not include description of how inspections and surveys are conducted. [<i>Directive 084 6.2.2(10)</i>]
7.5.4.1	Failure to immediately conduct an inspection. [<i>Directive 084 6.2.2.1(11)</i>]
7.5.5.1	Failure to conduct weekly (AVO) inspections. [<i>Directive 084 6.2.2.2(12)</i>]
7.5.6.1	Failure to conduct monthly and/or annual survey of targeted components within the specified timeline criteria. [<i>Directive 084 6.2.2.3(13), 6.2.2.4(17)</i>]
7.5.7.1	Mandatory components are not included in monthly surveys. [<i>Directive 084 6.2.2.3(14)</i>]
7.5.8.1	Licensee did not add component to list of targeted components when required. [<i>Directive 084 6.2.2.3(15), (16)</i>]

7.6 Truck Loading, Unloading, Tank Cleaning and Desanding

Manual #	Description
7.6.1.1	Failure to implement suitable and functional controls for emissions that have potential to cause, or are causing, off lease odours. [<i>Directive 084 7.2(38)</i>]
7.6.2.1	Failure to develop, document, implement, and retain an emission controls program for truck loading, truck unloading, tank cleaning, and tank desanding that ensures that emission controls are suitable and functional. [<i>Directive 084 7.2(39), (40)</i>]

7.7 Ambient Air Monitoring

Manual #	Description
7.7.1.1	Failure to participate in a regional ambient air monitoring program operating in the Peace River area. [<i>Directive 084 8.2(41)</i>]

7.8 Annual Performance Report

Manual #	Description
7.8.1.1	Failure to submit required information about the previous calendar year to the AER. [<i>Directive 084 9.2(42)</i>]

50 Public Lands Act

50 General

Manual #	Description
50.1.1.1	Unauthorized Use - No approval or Disposition associated with disturbance or use of Public Land. [PLA 20(1), 47(1)(a)]
50.2.1.1	Unauthorized Use (Purpose) - Disposition being used for purpose other than for which it was approved. [PLA 20(1)(e); PLAR 173(1); approval]
50.4.1.1	Cuts / fills not re-contoured to a stable slope. [PLAR 173(1); approval]
50.5.1.1	Erosion on site not being controlled. [PLA 54(1)(f); PLAR 173(1); approval]
50.6.1.1	Timber not salvaged as per approval [PLAR 173(1); approval]
50.8.1.1	Brush/debris disposal not completed as required by approval. [PLAR 173(1); approval]
50.9.1.1	Waste material, debris, refuse, or garbage accumulating on site. [PLA 54(1)(a); PLAR 21(1)(h)]
50.11.1.1	Weeds not actively being managed. [PLA 63(b), PLAR 173(1), approval]
50.12.1.1	Compaction and/or admixing of soil profile occurring on site due to rutting. [PLA 54(e); PLAR 173(1); approval]
50.13.1.1	Prohibited species identified in approval used for re-vegetation. [PLAR 173(1); approval]
50.14.1.1	Operating within restricted time period identified in approval. [PLAR 173(1)]
50.15.1.1	Access control requirements outlined in approval not met. [PLAR 173(1)]

51 Water Management

Manual #	Description
51.1.1.1	Deleterious material deposited into, or onto the ice of, a water body or watercourse. [PLA 54(1)(e); PLAR 173(1), approval]
51.2.1.1	Unsatisfactory crossing of a permanent or fish-bearing watercourse. [PLA 54(1)(e)(f); PLAR 21(1)(j); approval]
51.3.1.1	Unsatisfactory crossing of an ephemeral or intermittent watercourse, wetland, cross-drain, or other non-fish-bearing water body. [PLA 54(1)(e)(f); PLAR 173(1); approval]
51.4.1.1	Crossing type not as per approval. [PLAR 173(1)]
51.5.1.1	Operation or infrastructure on disposition interfering with natural drainage, other than what has been approved. [PLA 54(1)(d)–(f)]
51.6.1.1	Disturbance to bed and shore of water bodies other than what is approved through approval. [PLA 53(a), 54(e)]

52 Conservation and Reclamation

Manual #	Description
52.1.1.1	Proper soil conservation techniques not being used. [PLAR 21(f), 173(1); PLA 63(d); approval]
52.2.1.1	Interim reclamation not implemented on disposition within required timeframe. [Approval]
52.3.1.1	Site not constructed to a minimal disturbance standard as required by the disposition approval.

53 EAP Dispositions

Manual #	Description
53.1.1.1	Regulator not notified of entry within 72 hours. [PLAR 173(1)]
53.4.1.1	Class of road built is greater than maximum outlined in approval. [PLAR 173(1)]
53.5.1.1	Required wildlife survey not completed. [PLAR 173(1); approval]
53.6.1.1	Wildlife signage not installed as required. [PLAR 173(1); approval]
53.7.1.1	100 m wildlife sweep not conducted appropriately prior to construction. [PLAR 173(1); approval]
53.10.1.1	Access to non-producing well off public grade road not closed to highway traffic within 1 year. [PLAR 173(1); approval]

59 Other

Manual #	Description
59.1.1.1	Other contravention of approval condition [PLAR 173(1)]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
59.2.1.1	Other contravention of act or regulation. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

60 EPEA General

60.1 EPEA Releases

Manual #	Description
60.1.1.1	Failure to report a release as required. [EPEA 110(1)(2)]
60.1.2.1	Release notifications requirements not met. [EPEA 111(1); RRR 4]
60.1.3.1	Failure to take remedial action. [EPEA 112]

60.3 EPEA Storage

Manual #	Description
60.3.1.1	Hazardous substance not stored in a manner to prevent contact with plants, animals, food or drink. [EPEA 155]

60.6 Other

Manual #	Description
60.6.1.1	Noncompliant with other EPEA item. (Specified in comments). (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)

70 Water Act Approval

70.1 Approval Conditions

Manual #	Description
70.1.1.1	No <i>Water Act</i> approval obtained for activity. [WA 36]
70.1.2.1	Approval/plans/reports not retained, posted, produced as required. [See specific approval; WA 39, 142(1)(e)]
70.1.3.1	Contravention reporting/written report not submitted as required by approval. [See specific approval; WA 142(1)(e)]
70.1.4.1	Works conducted does not meet the approval activity description. [See specific approval; WA 142(1)(e)]
70.1.5.1	The activity is not undertaken as described in the approval plan(s)/report(s). [See specific approval; WA 142(1)(e)]
70.1.6.1	The activity is not undertaken as described in the approval particulars. [See specific approval; WA 142(1)(e)]
70.1.7.1	The activity is not undertaken to meet the siltation and erosion control requirements. [See specific approval; WA 142(1)(e)]
70.1.8.1	The activity does not meet the wetland compensation requirements as described in the approval. [See specific approval; WA 142(1)(e)]
70.1.9.1	Certificate of completion not completed as described in the approval. [See specific approval; WA 142(1)(e)]
70.1.10.1	Other (Unique condition/clause described in the approval that is not identified above). [See specific approval; WA 142(1)(e)]
70.1.11.1	Construction timing/methods or plans/reports/manuals/safety review submissions not completed as required in the approval. [See specific approval; WA 142(1)(e)]
70.1.12.1	Monitoring methodology or reporting do not meet requirements as required in the approval. [See specific approval; WA 142(1)(e)]

71 Water Well Requirements

71.1 Approval Conditions

Manual #	Description
71.1.1.1	The class of approval is incorrect. [WWGSHES Directive 2.1; WA 142(1)(e)]
71.1.2.1	Drilling, saline groundwater and/or gas reports not conducted as required. [WWGSHES Directive 3.10; WA 142(1)(e)]
71.1.3.1	Water well site specifications do not meet the requirements. [WWGSHES Directive 3.1; WA 142(1)(e)]
71.1.4.1	Pumping equipment and/or venting specifications do not meet the requirements. [WWGSHES Directive 3.5; WA 142(1)(e)]
71.1.5.1	Flowing water wells, Maximum allowable flow of flowing water well and/or flow device does not meet the requirements. [WWGSHES Directive 3.8; WA 142(1)(e)]
71.1.6.1	Water well and/or pumping equipment disinfection does not meet the requirements. [WWGSHES Directive 3.6; WA 142(1)(e)]
71.1.7.1	Testing of water yield does not meet the requirements. [WWGSHES Directive 3.4; WA 142(1)(e)]
71.1.8.1	Water well reclamation does not meet the requirements. [WWGSHES Directive 3.7; WMR 66; WA 142(1)(e)]
71.1.9.1	Inactive water well requirements not met. [WMR 67; WA 142(1)(e)]

Manual #	Description
71.1.10.1	Reconditioning of water well requirements not met. [<i>WWGSHES Directive</i> 3.9; <i>WA</i> 142(1)(e)]
71.1.11.1	Security and well driller requirements not met. [<i>WMR</i> 70; <i>WA</i> 142(1)(e)]
71.1.12.1	Rig plate requirements not met. [<i>WWGSHES Directive</i> 2.2; <i>WA</i> 39(b), 142(1)(e)]
71.1.13.1	Water well construction methods do not meet the requirements. [<i>WWGSHES Directive</i> 3.2; <i>WMR</i> 68; <i>WA</i> 142(1)(e)]
71.1.14.1	Water well sediment protection does not meet the requirements. [<i>WWGSHES Directive</i> 3.3; <i>WA</i> 142(1)(e)]

72 Water Act Licence

72.1 Licence Conditions

Manual #	Description
72.1.1.1	No <i>Water Act</i> licence obtained for diversion. [<i>WA</i> 49(1)]
72.1.2.1	Contravention reporting / written reports not completed as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.4.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.5.1	Diverted water from source other than source of water described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.6.1	Point of use not as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.7.1	Diverting water for purpose other than described in the licence. [Licence condition; <i>WMR</i> 11; <i>WA</i> 142(1)(e)]
72.1.8.1	The works used to divert the water not as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.9.1	Exceeded diversion limit/rate described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.10.1	Screen on pump intake not as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.11.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.12.1	Measuring diversion source water and calibration requirements not completed as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.13.1	Monitoring frequencies not completed as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.14.1	In-stream objectives not met as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.15.1	Recording and reporting requirements not met as described in the licence [Licence condition; <i>WA</i> 142(1)(e)]
72.1.16.1	Water Use Reporting requirements not completed as described in the licence. [Licence condition]
72.1.17.1	Licensee did not investigate all written complaints as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]
72.1.18.1	Licensee did not conduct/complete water sampling as described in the licence. [Licence condition; <i>WA</i> 142(1)(e)]

Manual #	Description
72.1.19.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.20.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

73 *Water Act* Temporary Diversion Licence (TDL)

73.1 TDL Conditions

Manual #	Description
73.1.1.1	No temporary diversion licence obtained for activity. [WA 49, 142(1)(e)]
73.1.2.1	Contravention(s) not immediately reported. [Licence condition; WA 142(1)(e)]
73.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
73.1.4.1	Licence not kept at the point of diversion. [WA 65, 142(1)(e)]
73.1.5.1	Licence not kept in the vehicle that transports the water. [WA 65, 142(1)(e)]
73.1.6.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
73.1.7.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(1)(e)]
73.1.8.1	Point of use not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.9.1	Diverting water for purpose other than described in the licence. [Licence condition; WMR 11; WA 142(1)(e)]
73.1.10.1	The works used to divert the water not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.11.1	Volume allowed exceeded. [Licence condition; WA 142(1)(e)]
73.1.12.1	Rate of diversion greater than what was described in the licence. [Licence condition; WA 142(1)(e)]
73.1.13.1	Screen on pump intake not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.14.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.15.1	Total volume of water diverted on each occasion is not monitored /measured as described in licence. [Licence condition; WA 142(1)(e)]
73.1.16.1	Recording and reporting requirements not met as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.17.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.18.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

74 *Water Act* Codes of Practice

74.2 Watercourse Crossings

Manual #	Description
74.2.1.1	No <i>Water Act</i> Code of Practice obtained for activity. [WMR Part 1(3)]
74.2.2.1	Watercourse crossing activity requirements not met. [COP 2; WMR Part 1(3)]
74.2.3.1	Notice of activity requirements not met. [COP 3, 4; WMR Part 1(3)]

Manual #	Description
74.2.4.1	Emergency works requirements not met. [COP 6; WMR Part 1(3)]
74.2.5.1	Watercourse crossing work plans not prepared/followed/changed as required. [COP 7, Schedule 2; WMR Part 1(3)]
74.2.6.1	Class of water body not classified as per the requirements. [COP 8; WMR Part 1(3)]
74.2.7.1	Watercourse crossing types or replacements (except temporary crossings) requirements not met. [COP 9, 11; Schedules 2 and 3; WMR Part 1(3)]
74.2.8.1	Temporary crossings not constructed in accordance with applicable parts of Schedules 2 and 3 and the written specifications and recommendations of a qualified aquatic environment specialist. [COP 10; Schedules 2 and 3; WMR Part 1(3)]
74.2.9.1	Restricted activity periods not adhered to. [COP 9, 11; WMR Part 1(3)]
74.2.10.1	Certification of works requirements not met. [COP 12; WMR Part 1(3)]
74.2.11.1	Reporting requirements not met. [COP 13; WMR Part 1(3)]
74.2.12.1	Records not created, compiled, and retained as required. [COP 14; WMR Part 1(3)]
74.2.13.1	Compliance monitoring (over crossing lifespan) not completed in accordance with the prepared plan. [COP 7, 15; WA 142(1)(e); WMR Part 1(3)]

75 Water (Ministerial) Regulation

75.2 Dam and Canal Safety Part 6

Manual #	Description
75.2.1.1	The dam owner is not following the <i>Dam Safety Directive</i> . [WMR 28]
75.2.2.1	The dam owner has not ensured that the design and construction of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a); DSD 5.14]
75.2.3.1	The dam owner has not ensured that the dam was operated in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.4.1	The dam owner has not ensured that the decommissioning, closure, and abandonment of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.5.1	The dam owner has not ensured that there is sufficient surveillance, maintenance, and repairs. [WMR 29(1)(c)]
75.2.6.1	The dam owner does not have a dam safety management plan. [WMR 29(1)(d); DSD 4.1, 4.2]
75.2.7.1	The dam owner has not ensured that all safety deficiencies have been identified, tracked, and managed until corrected. [WMR 29(1)(e); DSD 4.5(1)]
75.2.8.1	The dam owner has not addressed all critical safety deficiencies in accordance with the <i>Dam Safety Directive</i> . [WMR 29(1)(f); DSD 4.5(2)]
75.2.9.1	The dam owner has not exercised reasonable care and due diligence to risk factors that can increase the inherent risk of the approved dam. [WMR 29(2)]
75.2.10.1	The owner has not ensured the dam is designed and constructed by a qualified professional. [WMR 30(1); DSD 5.2]
75.2.11.1	The owner has not ensured that the construction of the dam conforms to the accepted drawings and the <i>Dam Safety Directive</i> . [WMR 30(1)(b)(ii); DSD 5.14]
75.2.12.1	The owner has not conducted investigations, surveillance, assessments, and evaluations by qualified individuals. [WMR 30(2) and DSD 5.4, 5.18]
75.2.13.1	The owner has not prepared, maintained, reviewed, and updated an operations, surveillance, and maintenance manual. [WMR 31(1)(a); DSD 6.1]
75.2.14.1	The owner has not conducted operations, surveillance, and maintenance of the dam in accordance with the OMS manual. [WMR 31(1)(b)]

Manual #	Description
75.2.15.1	The dam owner has not installed, operated, or maintained instrumentation as required by the OMS manual. [WMR 31(3)]
75.2.16.1	The dam owner has not prepared, maintained, reviewed, and updated the EMP for the dam by a qualified individual. [WMR 32(2); DSD 7.1, 7.3]
75.2.17.1	The dam owner has not shared all relevant up to date information with those potentially impacted by an emergency. [WMR 32(3); DSD 7.1(4)]
75.2.18.1	The dam owner has not operated the dam in accordance with the EMP when there is an increased risk to factors at risk. [WMR 32(4)(a)]
75.2.19.1	The dam owner has not notified the director of the nature of the conditions, any actions undertaken, and any information provided to persons on those conditions, that have increased the risk to factors at risk. [WMR 32(4)(b)]
75.2.20.1	The dam owner has not notified the director of hazardous condition, safety deficiency, potential safety hazard, major repairs, significant changes to operations or surveillance / inspection plans and outcomes in response to a hazardous condition. [WMR 33(1); DSD 8.1]
75.2.21.1	The dam owner has not provided the requested information or resources as required to the director. [[WMR 33(2)]
75.2.22.1	The dam owner has not prepared or submitted a decommissioning closure abandonment plan. [WMR 34(1) and DSD 9.6]
75.2.23.1	The dam/canal owner shall not implement a plan referred to in subsection (1) unless the Director has confirmed in writing that the plan meets the criteria set out in the Safety Directive. [WMR 34(2) and DSD 9.9]
75.2.24.1	The dam owner has not conducted a consequence classification of the dam. [WMR 34.1(3); DSD 3.1, DSD 3.4]
75.2.25.1	The dam owner has not reported a change in the consequence classification to the Director. [WMR 34.1(5); DSD 3.3, 3.4]
75.2.26.1	The dam owner has not conducted a systematic risk assessment in accordance with the <i>Dam Safety Directive</i> . [WMR 34.3; DSD 5.22]
75.2.27.1	Noncompliant with other WMR item (specified in comments).

75.3 Dam and Canal Safety Directive

Manual #	Description
75.3.1.1	The owner has not submitted the required information for an application or authorization for a dam. [DSD 2.1, 2.2, 2.3]
75.3.2.1	The owner has not prepared or submitted a construction completion report as required. [DSD 5.17]
75.3.3.1	The owner has not undertaken an annual engineering inspection as required. [DSD 5.19]
75.3.4.1	The owner has not undertaken an annual performance review as required. [DSD 5.20]
75.3.5.1	The owner has not undertaken a dam safety review as required. [DSD 5.21(1)]
75.3.6.1	The owner has not held an orientation workshop, emergency drill, or conducted an exercise as required. [DSD 7.4]
75.3.7.1	The owner has not developed a cessation / resumption plan as required. [DSD 9.1(1)]
75.3.8.1	The owner has not notified the Director of the cessation / resumption as required. [DSD 9.2(1), (2)]
75.3.9.1	The owner has not submitted the post implementation report. [DSD 9.5]
75.3.10.1	The owner has not notified the Director of deviation from the accepted decommissioning, abandonment, closure plan. [DSD 9.9]

Manual #	Description
75.3.11.1	The owner has not submitted the completion report of decommissioning, closure, and abandonment of a dam. [<i>DSD</i> 9.10]
75.3.12.1	Noncompliant with other <i>DSD</i> item (specified in comments).

99 Other

99.1 Other

Manual #	Description
99.1.1.1	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]
99.1.1.2	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]
99.1.1.3	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]

D Waste Facility

1 Equipment

1.1 Gas Measurement

Manual #	Description
1.1.1.1	Flared/vented gas not measured. [<i>Directive 017</i> 4.1, 4.3.3.1(10), 4.3.5.2]
1.1.2.1	Fuel gas not measured. [<i>Directive 017</i> 4.1, 4.2.2, 4.3.5.2]
1.1.3.1	Design, installation, and operation of measurement system is not in accordance with requirements. [<i>Directive 017</i> 4.3.1, 4.3.4, 4.3.5]
1.1.4.1	Meter not calibrated/proved since installation, following repairs, or calibration/proving expired. [<i>Directive 017</i> 2.5.1, 2.5.2, 2.5.4]
1.1.5.1	Calibration procedures not in accordance with requirements. [<i>Directive 017</i> 2.5.1]
1.1.6.1	Flared/vented gas not reported to Petrinex. [<i>OGCR</i> 12.030(1); <i>Directive 007</i> 2.3; <i>Directive 017</i> 4.2.2, 4.3.3.1(4), (5)]
1.1.7.1	Fuel gas not reported to Petrinex. [<i>OGCR</i> 12.030(1); <i>Directive 007</i> 2.3; <i>Directive 017</i> 4.3.3.1(4), (5), (7), (9), <i>Directive 047</i> 5(13)]
1.1.8.1	Measurement not in accordance with approval. [<i>Directive 017</i> 5, 5.1, 5.2; see specific approval]
1.1.9.1	Meter calibration/proving tag or detailed report does not meet requirements. [<i>Directive 017</i> 2.3 Exceptions (1), 2.5.2, 2.5.2(2), (3), (4), 2.5.3, 2.5.4]

1.2 Hydrocarbon Liquids Measurement

Manual #	Description
1.2.1.1	Inaccurate accounting and reporting of hydrocarbons liquid dispositions. [<i>Directive 017</i> 14.3.2, <i>Directive 007</i> 2.3; <i>Directive 047</i> 3.2(8)]
1.2.2.1	No hydrocarbon liquid delivery point measurement. [<i>Directive 017</i> 1.7.2(ii), 10.1, 10.2.7, 10.3]
1.2.3.1	Metering system not designed, installed, or operated as required. [<i>Directive 017</i> 2.6(1), 6.3.1]
1.2.4.1	Meter installed downstream of snap-acting dump valve. [<i>Directive 017</i> 2.6(1)]

Manual #	Description
1.2.5.1	Measurement device not calibrated/proved since installation, following repairs, or calibration/proving expired. [<i>Directive 017</i> 2.6, 2.12, 2.13, 2.14]
1.2.6.1	Prover tap size or location not in accordance with requirements. [<i>Directive 017</i> 2.6(2)]
1.2.7.1	Procedures for the proving/calibration of measurement device/system are not in accordance with requirements. [<i>Directive 017</i> 2.6, 2.7, 2.11, 2.12, 2.13]
1.2.8.1	Tank gauging not in accordance with requirements. [<i>Directive 017</i> 10.5.1, 14.7, 14.7.3, 14.7.4, 14.7.5]
1.2.10.1	Hydrocarbon liquid volumetric data not reported to Petrinex. [<i>Directive 007</i> 2.3; <i>Directive 047</i> 1.1, 1.5(1); see specific approval]
1.2.11.1	Measurement device calibration/proving tag or detailed report does not meet requirements. [<i>Directive 017</i> 2.6(10), (11), Exemptions 1–3, 2.12, 2.13.2, 2.14]

1.3 Water/Other Measurement

Manual #	Description
1.3.1.1	Waste facility does not accurately record on Petrinex incoming and outgoing waste streams to ensure waste materials are accounted for and disposed of appropriately. [<i>Directive 007</i> 2.3; <i>Directive 047</i>]
1.3.2.1	Oilfield waste accounting was not done appropriately. [<i>Directive 047</i>]
1.3.3.1	No measurement of injected/disposed water or other substance(s). [OGCR 14.200; <i>Directive 017</i> 1.7.3, 15.2.4, 15.2.5, 15.2.6, 15.2.8]
1.3.4.1	Meter or product analyzer not installed in accordance with the requirements. [<i>Directive 017</i> 2.6, 14.6, 14.8.1]
1.3.5.5	Water meter not proved since installation, following repairs, or meter proving has expired. [<i>Directive 017</i> 2.6, 2.10]
1.3.6.1	Product analyzer calibration expired. [<i>Directive 017</i> 2.11]
1.3.7.1	Water/other substance volumetric data not reported to Petrinex. [<i>Directive 007</i> 2.3; <i>Directive 047</i> 1.1, 1.5(1); see specific approval]
1.3.8.1	Injection or disposition of water/other substance not reported to Petrinex [<i>Directive 007</i> 2.3]
1.3.9.1	Measurement device calibration/proving tag/detailed report not attached or does not meet requirements. [<i>Directive 017</i> 2.6(10), (11), Exemptions (1), 2.10]
1.3.10.1	Product analyzer tag/detailed report not attached or does not meet requirements. [<i>Directive 017</i> 2.11]

1.4 Spacing

Manual #	Description
1.4.1.1	Flare stack or incinerator less than 100 metres from an occupied residence. [OGCR 8.080(3); <i>Directive 060</i> 7.8(3)]
1.4.2.1	Flare stack, or incinerator less than 25 metres, or enclosed combustors less than 10 metres, from oil or gas processing equipment. [OGCR 8.080(5); <i>Directive 060</i> 7.8(1)(c), 7.8(2)(c)]
1.4.3.1	Flare stack, or incinerator less than 50 metres, or enclosed combustors less than 10 metres, from a well or oil storage tank. [OGCR 8.080(5); <i>Directive 060</i> 7.8(1)(a), (b), 7.8(2)(a), (b)]
1.4.4.1	Flare pit, flare stack, or incinerator less than 100 metres from a surface improvement, except surveyed roadway or road allowance. [OGCR 8.080(3); <i>Directive 060</i> 7.8(3)]
1.4.5.1	Flare or incinerator less than 40 metres to a public roadway. [OGCR 8.080(3); <i>Directive 060</i> 7.8(3), footnote 18]

Manual #	Description
1.4.6.1	Flame type equipment placed or operated within 25 metres of a process vessel without adequate flame arrester. [OGCR 8.090(5), (8)]
1.4.7.1	Flame type equipment within 25 metres of a well, oil storage tank, or other source of ignitable vapour. [OGCR 8.090(4)]
1.4.8.1	Ventilation requirements not met for flame type equipment within the same building as a process vessel or source of ignitable vapour. [OGCR 8.090(6)]
1.4.9.1	Fire within 50 metres of a well, oil storage tank, or other source of ignitable vapour (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(2)]
1.4.10.1	Smoking within 25 metres of a well, separator, oil storage tank, or other source of ignitable vapour. [OGCR 8.120(1)]
1.4.11.1	Outer perimeter of tank dike to surface improvement (other than public roadway) less than 60 metres. [OGCR 8.030(4)]
1.4.12.1	Oil storage tank(s) to well less than 50 metres (25 metres for heavy oil/crude bitumen production). [OGCR 8.090(3); <i>Interim Directive (ID) 91-03</i> 4.1(1)]
1.4.13.1	Internal combustion engine exhaust within 25 metres of a well, process vessel, oil storage tank, or source of ignitable vapours, not constructed to prevent flame emergence. [OGCR 8.090(9)(a)]
1.4.14.1	End of exhaust pipe from internal combustion engine is located within 6 metres of the well and/or is not directed away from the well. [OGCR 8.090(9)(b)]

1.5 Flaring, Incinerating, and Venting

Manual #	Description
1.5.1.1	No flare or incinerator stack where one is required. [OGCR 7.060(1)–(3), 7.070(1), (3), (5), (6)]
1.5.2.1	Stack height or design does not meet requirements. [OGCR 7.060(4)(a), (7), 7.070(5), (6); <i>Directive 060</i> 7.4]
1.5.3.1	Pilot/ignition device(s) not available/operable where required. [OGCR 7.060(4)(c), 7.070 (5); <i>Directive 060</i> 7.3, 7.3.1(1), appendix 11]
1.5.4.1	Insufficient heating value available to flare. [<i>Directive 060</i> (7.1.1)(1)]
1.5.5.1	No flame arrester, equivalent safety device, or appropriate engineering and operating practices to prevent backflash where required. [OGCR 8.090(7); <i>Directive 060</i> 7.7, 8.7(6)]
1.5.6.1	No knockout drum or flare separator where required. [OGCR 7.060(4)(d), 7.070(5); <i>Directive 060</i> 7.6(1), 7.6.1, 8.7(3)(b)]
1.5.7.1	Knockout drum or flare separator controls, equipment, or design does not meet requirements. [<i>Directive 060</i> 7.6]
1.5.8.1	Exposed flame from an incinerator. [<i>Directive 060</i> 7.1.2(1)(a), 7.4(1)(a)]
1.5.9.1	Insufficient exit temperature, no automatic temperature shutdown, or no process temperature control and recording where required for incinerators. [<i>Directive 060</i> 7.1.2(2)–(4)]
1.5.12.1	Flare pit not decommissioned by December 31, 2015, without exemption. [<i>Directive 060</i> 7.11]
1.5.15.1	Failure to notify the appropriate AER Field Centre of flaring, incinerating, or venting events as required. [<i>Directive 060</i> 2.10(1), 2.11.1(4), 3.8(2), 4.2, 5.4, 6.4(1)–(3), table 1, table 2]
1.5.16.1	No resident notification and/or consultation. [<i>Directive 060</i> 2.6(7)(c), (7)(d), 2.10(1), 2.11.1(4), 3.8(1), (4)–(7), 4.2(1), 5.4, 6.4(1), table 1, table 2]
1.5.17.1	Public information packages or resident notification information do not meet the requirements. [<i>Directive 060</i> 2.10.1, 3.8(4), (5)]
1.5.18.1	Total venting (routine and non-routine) at a site is $>15.0 \times 10^3 \text{ m}^3/\text{month}$ or $> 9.0 \times 10^3 \text{ kg}$ of methane/month [<i>Directive 060</i> 8.3(1)]

Manual #	Description
1.5.19.1	Compressor testing points are not accessible or clearly identified [<i>Directive 060 8.6.2.1(3)</i>]
1.5.20.1	Level controllers are not designed to minimize venting. [<i>Directive 060 8.6.1(3)</i>]
1.5.21.1	Non-level controllers are not designed to minimize venting. [<i>Directive 060 8.6.1(4)</i>]
1.5.22.1	Reciprocating compressor is exceeding vent rate. [<i>Directive 060 8.6.2.2 (3)</i>]
1.5.23.1	Centrifugal compressor is exceeding vent rate. [<i>Directive 060 8.6.2.3 (2)</i>]
1.5.24.1	Glycol dehydrator is exceeding methane emissions limit. [<i>Directive 060 8.6.3(2)</i>]

1.6 Signs and Security

Manual #	Description
1.6.1.1	Improper identification sign, sign not posted, improper warning symbol, or no warning symbol posted adjacent to all entrances to the developed area of the facility. [OGCR 6.020(3), (5), (7)–(13), Schedule 12]
1.6.4.1	Oilfield landfill signage not in accordance with requirements. [<i>Directive 058 7.5(128)</i> ; <i>Standards for Landfills in Alberta 4.9(a)(i)–(iv)</i>]
1.6.5.1	No or inadequate perimeter fence. [<i>Directive 058 6.6(98)</i> , 7.5(128); <i>Standards for Landfills in Alberta 4.6(a)(b)</i> ; specific application and/or approval]

1.7 Emergency Controls and Relief Systems

Manual #	Description
1.7.1.1	Operating gas catalytic heater with inoperable safety shut off. [OGCR 8.090(8); <i>Occupational Health and Safety Regulation</i> , Part 1, 12(1)]

2 Storage

2.1 Pre-1996 AST and UST Exemptions

Manual #	Description
2.1.1.1	Tank farm area reconstruction does not meet requirements. [<i>Directive 055 1.6.3(1)</i>]
2.1.2.1	AST holding materials other than fresh water does not meet pre-96 dike requirements. [<i>Directive 055 1.6.3(2)</i>]
2.1.3.1	Single-walled aboveground storage tank $\geq 5\text{m}^3$ mechanical integrity not appropriately verified within the past five years. [<i>Directive 055 1.6.3(3)</i>]
2.1.4.1	Single-walled underground storage tank mechanical integrity not appropriately verified within past three years. [<i>Directive 055 1.6.3(3)</i>]
2.1.5.1	AST replacement or addition does not meet requirements. [<i>Directive 055 1.6.3(5)</i> , 1.6.3(6)]
2.1.6.1	UST that failed mechanical integrity test still in service. [<i>Directive 055 1.6.3(8)</i>]

2.2 General

Manual #	Description
2.2.1.1	No notification as required by <i>Directive 055</i> . [<i>Directive 055 2.1.1(13)</i> , 2.1.2(14), 3.4(50), 4.5(171)(c)]
2.2.2.1	Alternative storage method, system, device, or location without AER approval. [OGCR 8.030(3); <i>Directive 055 2.1.3(16)</i> , 2.5(21), 2.5(22), 3.4(51), 3.7(67), 3.8(94)]
2.2.3.1	Storage exceeds one year duration. [<i>Directive 055 2.4(19)</i>]

Manual #	Description
2.2.4.1	Alternative water volume withdrawn within 12 months not equal or greater than the volume going into the storage device. [<i>Directive 055 2.4(20)</i>]
2.2.5.1	Storage systems and/or associated equipment do not meet spacing requirements specified in <i>Directive 055</i> . [<i>Directive 055 2.6(23)</i> , 4.2.1(145)]
2.2.6.1	Concrete being used as primary containment. [<i>Directive 055 1.6.4(9)</i> , 1.6.4(10), 1.6.4(11), 3(26), 3.6(58)]
2.2.7.1	Storage system differential settlement, freeze-thaw cycles, subgrade movement (including sinking, low spots, slumping, sloughing), or slope instability due to inadequate civil works. [<i>Directive 055 4.6(173)</i>]
2.2.8.1	Waste processing conducted in storage system. [<i>Directive 055 5.5(190)</i>]
2.2.9.1	Hydraulic fracturing operations storing non-water-based fluids, fluids containing hydrocarbons, or fluids containing H ₂ S in storage device. [<i>Directive 055 5.5(190)</i>]
2.2.10.1	Hydraulic fracturing operations did not direct fluids to a tank, or series of tanks, or other equipment prior to receiving flowback in the storage system. [<i>Directive 055 5.5(191)</i>]

2.3 Containers (Device Specific)

Manual #	Description
2.3.1.1	On-site volume of containers exceeds 1 m ³ without secondary containment. [<i>Directive 055 3.1(27)</i>]
2.3.2.1	Secondary containment for container(s) does not meet requirements. [<i>Directive 055 3.1(28)(a)(b)(c)</i>]
2.3.3.1	Container storage in trailers or buildings does not meet requirements. [<i>Directive 055 3.1(28)(d)(e)(f)</i>]
2.3.4.1	No or inadequate weather protection for containers. [<i>Directive 055 3.1(29)</i>]

2.4 AST/UST (Device Specific)

Manual #	Description
2.4.1.1	No secondary containment for open-topped tank where required. [<i>Directive 055 3.2(33)</i>]
2.4.2.1	Aboveground storage tank not constructed, designed, or operated as required. [<i>Directive 055 3.2(30)</i> , 3.2(37), 3.2(38)]
2.4.3.1	Open-topped tank mechanical integrity not appropriately verified within the past five years. [<i>Directive 055 3.2(36)</i>]
2.4.4.1	Tank foundation and supports does not meet requirements. [<i>Directive 055 3.2(32)</i>]
2.4.5.1	Underground storage tank not constructed or operated appropriately. [<i>Directive 055 3.3(40)</i> , 3.3(41), 3.3(44), 5.1(177)]
2.4.6.1	Flare/incinerator knockout or separator integrity testing does not meet requirements. [<i>Directive 055 3.3(42)</i> , 4.3.1]
2.4.7.1	Newly installed UST and associated piping integrity testing not conducted. [<i>Directive 055 3.3(43)</i>]
2.4.8.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [<i>Directive 055 3.2(32)</i>]

2.5 BSF/LEE/Bulk Pad (Device Specific)

Manual #	Description
2.5.1.1	BSF not constructed, designed, or operated as required. [<i>Directive 055 3.4(45)</i> , 3.4(46), 3.4(49), 4.1.2(124)]
2.5.2.1	BSF not tested for integrity prior to use. [<i>Directive 055 3.4(52)</i>]

Manual #	Description
2.5.3.1	LEE not constructed, designed, or operated as required. [Directive 055 3.5(53), 3.5(54), 3.5(55)]
2.5.4.1	Pre 2002 LEE integrity not appropriately verified within past three years. [Directive 055 1.6.4(11)]
2.5.5.1	Bulk pad not constructed of compacted clay, synthetic liner, concrete, or asphalt as required. [Directive 055 3.6(56)]
2.5.6.1	Bulk pad does not incorporate a leachate collection or leak detection system where required. [Directive 055 3.6(56), 3.6(58)]
2.5.7.1	Stockpiled materials causing spillage off the bulk pad. [Directive 055 3.6(57)]
2.5.8.1	Bulk pad storage area curb or slope to catchment device does not meet requirements. [Directive 055 3.6(56)]

2.6 AWSS (Device Specific)

Manual #	Description
2.6.1.1	AWSS synthetic liner does not provide a continuous impervious layer. [Directive 055 3.7(60), 3.7(61)]
2.6.2.1	AWSS not designed, located, or operated to prevent the likelihood of a release occurring or ensure the consequences of a release are minimized. [Directive 055 3.7(59), 3.7.1.3(73)]
2.6.3.1	Maximum capacity of any single AWSS exceeds 6600 m ³ . [Directive 055 3.7.3(87)]
2.6.4.1	Collective usable capacity of AWSSs on a site exceeds 30 000 m ³ . [Directive 055 3.7.3(88)]
2.6.5.1	Minimum freeboard not appropriate or not maintained. [Directive 055 3.7.3(89), 3.7.3(90)(a)(b)(c)]
2.6.6.1	No or inadequate site-specific response plan. [Directive 055 3.7.4(93), 5.7(207)(c)]
2.6.7.1	Failure to test the integrity of AWSS before putting it into service or integrity of AWSS not maintained. [Directive 055 3.7.4(91), (92)]

2.7 ECP (Device Specific)

Manual #	Description
2.7.1.1	ECP does not have primary and/or a secondary containment system as required. [Directive 055 3.8(99)(a)(b)(c)]
2.7.2.1	Minimum freeboard of 1 meter not maintained. [Directive 055 3.8(105)]
2.7.3.1	ECP containment system(s) contain punctures. [Directive 055 3.8(101)]
2.7.4.1	Primary containment damage not prevented during equipment placement and maintenance activities. [Directive 055 3.8(102)]
2.7.5.1	Groundwater or soil monitoring not implemented as required by Directive 058. [Directive 055 3.8(99)(f)(g); Directive 058 6.4(74)]
2.7.6.1	Leakage not measured weekly to determine the actual monthly leakage rate. [Directive 055 4.5(166)]
2.7.7.1	Collected leakage not managed appropriately. [Directive 055 4.5(167)]
2.7.8.1	Allowable action leakage rate not monitored or managed as required. [Directive 055 4.5(170), 4.5(171)]

2.8 Liners and Dikes (All Storage Systems)

Manual #	Description
2.8.1.1	No dike and/or impervious liner where required. [<i>Directive 055</i> 3.2(39), 3.7.1.2(71), 3.7.1.3(75), 4.1(109), 4.2(132), 4.2(140)]
2.8.2.1	Liner does not meet requirements. [<i>Directive 055</i> 3.4(47), 3.7(62), 3.7.1.1(69), 3.7.1.2(70), 3.7.1.2(73), 3.7.1.3(75)(a), 4.1(107), 4.1(108), 4.1(109), 4.1.1.1(115), 4.1.2(121), 4.2(140), 4.2(141)]
2.8.3.1	Liner not protected from damage, degradation, or unauthorized access. [<i>Directive 055</i> 4.1(110), 4.1.1(114), 4.1.2(129)]
2.8.4.1	Dike contains openings or not designed to contain fluids. [<i>Directive 055</i> 4.2(133)(a)(b)(c)]
2.8.5.1	AWSS dike not designed to withstand wave impact from storage device failure. [<i>Directive 055</i> 4.2(134)]
2.8.6.1	Diked area volumetric capacity does not meet requirements. [<i>Directive 055</i> 4.2(135), 4.2(136), 4.2(137)]
2.8.7.1	Dike and secondary containment area not maintained in good condition or kept free from weeds, debris, and extraneous combustible material. [<i>Directive 055</i> 4.2(138)]
2.8.8.1	Diked area not graded to a sump or low-lying area. [<i>Directive 055</i> 4.2(142)]

2.9 Temporary Storage Operations

Manual #	Description
2.9.1.1	No diking or 1 metre impervious berm for storage where diking is not optional, exceeds three months, or where combined storage capacity exceeds 3000 m ³ . [<i>Directive 055</i> 4.2.2(146), 4.2.2(148)]
2.9.2.1	Temporary storage duration exceeds one year. [<i>Directive 055</i> 4.2.2(146), 4.2.2(150)]
2.9.3.1	Contaminated materials or materials possessing the potential to leach stored directly on the ground. [<i>Directive 055</i> 4.2.2(147)]
2.9.4.1	Temporary storage area synthetic liner not minimum of 15 mil. [<i>Directive 055</i> 4.2.2(149)(a)]
2.9.5.1	Temporary storage area synthetic liner not extended over the dike or keyed into the outside of the dike. [<i>Directive 055</i> 4.2.2(149)(a)]
2.9.6.1	Leachate in temporary storage area not managed. [<i>Directive 055</i> 4.2.2(149)(b)]
2.9.7.1	Underlying soil not assessed for temporary storage area used more than three months. [<i>Directive 055</i> 4.2.2(149)(c)]

2.10 Leak Detection (All Storage Systems)

Manual #	Description
2.10.1.1	No leak detection where required. [<i>Directive 055</i> 1.6.4(9), 1.6.4(11), 3.2(39), 3.6(58), 3.7.1.2(73), 3.7.1.3(75)(b)(c), 3.8(99)(e), 4.3.3(156), 4.3.7(163)]
2.10.2.1	Monitoring or sampling of collected leak detection liquids does not meet <i>Directive 055</i> . [<i>Directive 055</i> 1.6.3(4), 1.6.3(7), 1.6.4(10), 1.6.4(11), 3.2(31), 4.3.1(152), 4.3.1(153), 4.3.3(157), 4.3.4(158), 4.3.5(160), 4.3.6(162), 5.6(194)]
2.10.3.1	Leak detection for storage devices within a diked area does not allow leakage to move preferentially through the layer to a collection area. [<i>Directive 055</i> 4.3.2(155)]
2.10.4.1	Automatic shutdown system not checked or documented monthly or maintained to ensure functionality. [<i>Directive 055</i> 3.2(32)]

2.11 Operational Controls (All Storage Systems)

Manual #	Description
2.11.1.1	Loading and unloading area(s) not designed to contain leaks/spills. [Directive 055 5.1(175)]
2.11.2.1	Spill control or spill control device(s) not used or not adequate where required. [Directive 055 3.2(39), 5.1(176), 5.1(180), 5.1(181)]
2.11.3.1	Storage device not protected from damage. [Directive 055 2.3(18)]
2.11.4.1	Required measures not incorporated to prevent overfilling of tanks. [Directive 055 5.1(178)]
2.11.5.1	Double-walled AST not equipped with a valve as close as practical to the tank. [Directive 055 5.1(179)]
2.11.6.1	Terrestrial or bird control measures not implemented as required. [Directive 055 5.2(182)(a), 5.2(182)(b)]
2.11.7.1	Wildlife fatalities or wildlife contact not reported as required. [Directive 055 5.2(182)(c)]
2.11.8.1	Terrestrial or bird control measures not adequately monitored or adapted as required. [Directive 055 5.2(183), 5.2(184)]
2.11.9.1	Operational controls not in place to prevent unwanted microbial and biological growth that may cause noxious substances in storage system. [Directive 055 5.3(185)]

2.12 Withdrawal of Storage Devices from Service

Manual #	Description
2.12.1.1	A tank taken out of service is not appropriately isolated or maintained. [Directive 055 5.6(192), 5.6(193)]
2.12.2.1	Tank out of service 180 days or less, not emptied or monthly fluid level not recorded. [Directive 055 5.6(194)]
2.12.3.1	Tank taken out of service greater than 180 days not clearly marked as empty and out of service. [Directive 055 5.6(195)]
2.12.4.1	Tank taken out of service greater than 180 days does not have all fluids/solids/gases removed. [Directive 055 5.6(195)]
2.12.5.1	Tank out of service greater than one year, not verified for integrity prior to putting it back in service. [Directive 055 5.6(196)]
2.12.6.1	Non-permanent storage device is not removed, suspended, or verified as required. [Directive 055 3.7(65), 5.6.1(198)]
2.12.7.1	Soil contamination assessment or confirmatory soil sampling not conducted as required. [Directive 055 1.6.4(12), 5.6(197), 5.6.2(199)–(202)]

2.13 Inspections and Documentation

Manual #	Description
2.13.1.1	Storage system inspections not conducted at least monthly as required. [Directive 055 3.2(34), 5.7(204)]
2.13.2.1	Storage device inspections, monitoring, or documentation does not meet requirements. [Directive 055 3.2(32), 3.8(96), 4.2.1(144), 4.3(151), 4.3.1(154), 4.3.4(158), 5.7(206), 5.7(207)(a), 5.7(208), 5.8(211)]
2.13.3.1	No or inadequate storage device corrective actions as required. [Directive 055 1.6.4(12), 4.3.1(154), 5.7(205), 5.7(207)(b), 5.7(209)(d)]
2.13.4.1	Inventory records not maintained or retained on site or at the local field office for two years. [Directive 055 5.8(210)]
2.13.5.1	Required documentation not retained for a minimum of five years. [Directive 055 5.8(211)]

3 Environment

3.1 Emissions

Manual #	Description
3.1.1.1	H ₂ S emissions resulting in odours outside the lease boundary. [OGCR 7.070(1), (3), (4), 9.040, 9.050(5); <i>Directive 058</i> 6.6(102); <i>Directive 060</i> 7.1(1), 8.8(1)–(3), 8.9]
3.1.2.1	Fugitive emissions other than H ₂ S resulting in odours. [<i>Directive 058</i> 6.6.(101), 7.4.(121); <i>Directive 060</i> 8.8(3)]
3.1.3.1	Exceeding <i>Alberta Ambient Air Quality Objectives</i> . [<i>Directive 060</i> 3.3.2(2)(c), 7.1(1), 7.1.1(1), 7.4(3), 7.12(1), 7.12.2(4), 7.12.5(8), 8.7(3), 8.8(4), appendix 7(5)(b)]
3.1.4.1	Sour fluids transported via a non-pressurized tank truck or truck without suitable and functional emissions controls. [<i>Directive 060</i> 8.8(5)]
3.1.6.1	Failure to meet the permissible sound level at the nearest or most impacted dwelling. [<i>Directive 038</i> 2.1, 2.2(9), 3.1(3), 4.4(22), 5.1(1), appendix 1]
3.1.7.1	Routine combustion of gases results in continuous or repeat black smoke emissions. [OGCR 7.040(1), 9.050(6)(d); <i>Directive 060</i> 7.1(2), 7.2(1)(a)]
3.1.9.1	Noise complaint response/procedures not conducted in accordance with requirements. [<i>Directive 038</i> 4]
3.1.10.1	Annual methane emission report is not accurate. [<i>Directive 060</i> 8.2(1)–(2), 8.4.1(1), 8.6.1.2(1), 8.6.2.4(1), 8.10.5(1); <i>Directive 039</i> 5.1(40)]
3.1.11.1	Fugitive emissions have not been repaired within the appropriate timeframe. [<i>Directive 060</i> 8.10.4(1)–(2)]

3.2 Waste Management

Manual #	Description
3.2.1.1	Site not maintained in a clean condition. [OGCR 8.150(4)]
3.2.2.1	No AER approval where required for waste management activity [OGCA 39(1)(g); OGCR 8.150(2)(f), 8.150(3)(a), 8.152; <i>Directive 058</i> 5.0, 7.2(107)–(109), 7.3(113), 7.4(115), 7.5(126), 7.5(127), 7.6(130), 7.6.1(131), 7.6.2(142), 7.7(147), 9(163), 9.4(170), 9.10(183), 10.3(198)]
3.2.3.1	Waste management activity AER approval condition not met. [OGCR 8.150(2)(f), 8.150(3)(a); specific application and/or approval]
3.2.4.1	Waste sent to site not authorized to accept it. [OGCR 8.150(2)(b)(c); <i>Directive 058</i> 7.5(125), 10.3(197)]
3.2.5.1	Waste characterization not completed or not adequate to classify the waste. [OGCR 8.150(2)(a); <i>Directive 058</i> 2(3); <i>Waste Control Regulation</i>]
3.2.6.1	Oilfield waste was not properly classified as either dangerous (DOW) or non-dangerous (non-DOW). [OGCR 8.150(2)(a); <i>Directive 058</i> 2(3), 2(4); <i>Waste Control Regulation</i>]
3.2.7.1	Oilfield wastes not characterized/classified prior to adding amendments, mixing, or diluting. [OGCR 8.150(2)(a); <i>Directive 058</i> 2(5), 2(6)]
3.2.8.1	Oilfield wastes generator does not disclose characteristics or classification of oilfield wastes to waste carriers or receivers. [OGCR 8.150(2)(e)]
3.2.9.1	Waste tracking system not in place or tracking system does not maintain accurate and complete documentation and records. [OGCR 8.150(2)(d); <i>Directive 058</i> 3.3(19), 3.3(20)]
3.2.10.1	Oilfield waste was not properly identified (waste code). [OGCR 8.150(2)(d); <i>Directive 058</i> 3(9), appendix 2]
3.2.11.1	Shipping document not used during transportation of waste. [<i>Directive 058</i> 3(7)]
3.2.12.1	Shipping document does not include adequate information, including the waste code, the waste source, and the waste generator's contact information. [<i>Directive 058</i> 3(9), 3.1(12)]

Manual #	Description
3.2.13.1	AER's waste form not utilized, incomplete, or not adequate. [<i>Directive 058</i> 3.1(10), 3.1(11), 3.1(12), 3.1(13)]
3.2.14.1	Oilfield waste generator does not notify the AER as required for discrepancy. [<i>Directive 058</i> 3.2(15), 3.2.1(17)]
3.2.15.1	Oilfield waste generator does not investigate, reconcile, or take corrective action as required for discrepancy. [<i>Directive 058</i> 3.2(14), 3.2.1(17)]
3.2.16.1	Shipping documents or tracking information not retained by generator for a minimum of two years. [<i>Directive 058</i> 3.3(21)]
3.2.17.1	Storage or consolidation of small volumes of waste in bin/bag system does not meet requirements. [<i>Directive 058</i> 7.2(107)]
3.2.18.1	Oilfield wastes being burned. [OGCR 8.152; <i>Directive 058</i> 5]
3.2.19.1	Not monitoring or managing waste containing NORMs in accordance with <i>the Canadian Guidelines for the Management of Naturally Occurring Radioactive Materials</i> . [<i>Directive 058</i> 10.3(197)]
3.2.20.1	Oilfield waste biodegradation not conducted according to requirements. [<i>Directive 058</i> 4.1(29)–(32), 4.1.1(36)–(47), 4.1.2(49)–(56)]
3.2.21.1	Treatment not concluded/closed within 5 years or unsuccessfully treated waste not removed within five years. [<i>Directive 058</i> 4.1(28), 4.1.1(35), 4.1.2(54), 4.1.2(55), 7.4(122)]
3.2.22.1	Biodegradation notification or records keeping does not meet requirements. [<i>Directive 058</i> 4.1(33), 4.1.1(48), 4.1.2(57), 4.1.2(58), 7.4(123), 7.4(124)]
3.2.23.1	Mobile thermal treatment unit not operating according to requirements. [<i>Directive 058</i> 4.2; specific permit, licence, application, or approval]
3.2.24.1	Thermally treating oilfield wastes originating from sites outside the same production system. [<i>Directive 058</i> 4.2(60)]
3.2.25.1	No AER notification as required. [<i>Directive 058</i> 4.2.1(61), 4.2.1(63)]
3.2.26.1	Landowners or residents not notified as required. [<i>Directive 058</i> 4.2.1(61)]

3.3 Spills

Manual #	Description
3.3.1.1	Spill or release not contained/cleaned up. [OGCR 8.050(1), 8.051(b)]
3.3.2.1	No notification of a reportable spill or release to AER. [OGCR 8.050(2), 8.051(a), 12.140; <i>Directive 058</i> 1.4(2), 6.6(100);]
3.3.3.1	Late notification of a reportable spill or release to the AER [OGCR 8.050(2), 8.051(a), 12.140;]

3.4 Surface Water

Manual #	Description
3.4.1.1	Release criteria of collected surface water not met prior to release to adjacent lands. [<i>Directive 055</i> 4.2(143), 5.4(186)–(188)]
3.4.2.1	No / inadequate surface water run-off control system. [<i>Directive 058</i> 6.6(103)]
3.4.3.1	Site contouring does not prevent surface water collection on the ground immediately surrounding secondary containment system. [<i>Directive 055</i> 4.2(131)]
3.4.4.1	Surface water not prevented from collecting around an AWSS. [<i>Directive 055</i> 3.7(66)]
3.4.5.1	Collected surface waters discharged into a watercourses or water body. [<i>Directive 055</i> 5.4(189)]
3.4.6.1	Surface water that meets the surface discharge criteria disposed to injection/disposal well. [<i>Directive 051</i> 2.3]

4 Liability Management

4.3 Licensing

Manual #	Description
4.3.10.5	No licence obtained prior to construction of a facility or well, or incorrectly licensed facility or well. [OGCA 11(1)(a), 12(1)a); OGCR 7.001, 7.002(1)(2), 7.003; Directive 056 5.1, table 5.1, 7.1, table 7.1]

5 Waste Facilities Specific

5.1 General

Manual #	Description
5.1.1	Annual report does not meet requirements. [Directive 058 7.8(148); specific application and/or approval]
5.1.2	Documentation, monitoring data, or annual report(s) not retained as required. [Directive 058 3.3(22), 7.8(149), 7.8(151)]
5.1.3	Documentation required under Directive 058 not provided to the AER upon request. [Directive 058 1.3(1)]
5.1.4	AER not notified as required. [Directive 058 7.6.2(142), 7.6.2(143), 9(162), 9.2(165), 9.2(166), 9.2(167), 9.3(169) 9.4(173), 9.5(177)]
5.1.5	Waste receiver does not notify waste generator of serious discrepancy. [Directive 058 3.2(16)]

5.2 Approval

Manual #	Description
5.2.1	WM approval facility status not updated. [Directive 058 9.7, 9.7(180); specific application and/or approval]
5.2.2	WM approval not amended as required. [Directive 058 9.8(186), 9.9(188), 9.10(191), 9.11(193), 9.12(195); specific application and/or approval]

5.3 Approval Conditions

Manual #	Description
5.3.1	WM approval operational requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.2	WM approval operational requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.3	WM approval operational requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.4	WM approval operational requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.5	WM approval administrative requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.6	WM approval administrative requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.7	WM approval administrative requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]
5.3.8	WM approval administrative requirements are not met. [OGCR 7.001, 7.003, 8.150(3)(a)–(c), (e), (f); specific application and/or approval]

5.4 Groundwater Monitoring System

Manual #	Description
5.4.1	Monitoring well not secured or protected from damage/vandalism. [Directive 058 6.4(83)]
5.4.2	Replacement monitoring well not ready before the next sampling date. [Directive 058 6.4(85)]
5.4.3	Monitoring well no longer used as part of the monitoring program not abandoned. [Directive 058 6.4(84)]
5.4.4	Groundwater monitoring well not sampled as required. [Directive 058 6.4(88); specific application and/or approval]
5.4.5	Groundwater monitoring report does not meet requirements. [Directive 058 6.4(89), (90), (92), (93)(a); specific application and/or approval]
5.4.6	No notification of impacts on groundwater to the AER as required. [Directive 058 6.4(91)(a), (93)(b); specific application and/or approval]

5.5 Soil Monitoring

Manual #	Description
5.5.1	Site-specific soil monitoring program does not meet requirements. [Directive 058 6.5(94)–(97); specific application and/or approval]

5.6 Waste Storage Facility/Transfer Station

Manual #	Description
5.6.1	Waste storage facility receiving waste from other sites. [Directive 058 7.2(107); specific application and/or approval]
5.6.2	Water for reuse being diluted with nonsaline water during storage. [Directive 058 7.2(110); specific application and/or approval]
5.6.3	Water being stored for reuse not managed as a waste. [Directive 058 7.2(111); specific application and/or approval]
5.6.4	Topsoil or subsoil not being managed as required for facility storing water for reuse. [Directive 058 7.2(112); specific application and/or approval]

5.7 1a Disposal Well

Manual #	Description
5.7.1	Oilfield wastes not segregated from non-oilfield wastes upon receipt at a Class 1a well prior to disposal. [Directive 058 7.3(114); specific application and/or approval]

5.8 Permanent Biopile/Biocell

Manual #	Description
5.8.1	Permanent biopile or biocell containment device or leachate collection systems are not appropriately designed or operated. [Directive 058 7.4(116)–(119); specific application and/or approval]

5.9 Landfill

Manual #	Description
5.9.1	Waste generator information, type/volume of oilfield waste, or each load disposition location within the landfill not retained as required. [<i>Directive 058</i> 7.5(129)(a); <i>Standards for Landfills in Alberta</i>]
5.9.2	Standards for landfills not met as required. [<i>Directive 058</i> 7.5(128); <i>Standards for Landfills in Alberta</i>]
5.9.3	Standards for landfill record keeping and reporting, not met as required. [<i>Directive 058</i> 7.5(128), (129); <i>Standards for Landfills in Alberta</i> 7]
5.9.4	Standards for landfill monitoring, analysis and corrective action not met as required. [<i>Directive 058</i> 7.5(128), <i>Standards for Landfills in Alberta</i> 5]
5.9.5	Standards for landfill operations not met. [<i>Directive 058</i> 7.5 (128); <i>Standards for Landfills in Alberta</i> 4]
5.9.6	Operational plan not developed, maintained, or implemented. [<i>Directive 058</i> 7.5 (128); <i>Standards for Landfills in Alberta</i> 4.3(a)(b)]
5.9.7	Topsoil/subsoil not properly salvaged or stockpiled. [<i>Directive 058</i> 7.5.(128); <i>Standards for Landfills in Alberta</i> 4.2 (a)(i)–(iii)]
5.9.8	Litter, fires, disease vectors, odours, or dust not properly managed on site. [<i>Directive 058</i> 7.5(128); <i>Standards for Landfills in Alberta</i> 4.5(a)]
5.9.9	Oilfield waste being burned without approval. [<i>Directive 058</i> 7.5(128); <i>Standards for Landfills in Alberta</i> 4.7(a)(b)]
5.9.10	Standards for Landfills not met as required <i>Directive 058</i> 7.5(128); <i>Standards for Landfills in Alberta</i> 4.8(a)–(f)
5.9.12	Leachate management sampling and documentation requirements not met. [<i>Directive 058</i> 7.5(128); <i>Standards for Landfills in Alberta</i> 4.10(a)–(f)]

5.10 Thermal Treatment

Manual #	Description
5.10.1	Failure to conduct thermal treatment of wastes according to requirements. [<i>Directive 058</i> 7.6.1(132)–(138), 7.6.1(140), (141); specific application and/or approval]
5.10.2	Fixed thermal treatment units or small incinerator not on an existing site regulated by the AER. [<i>Directive 058</i> 7.6(130)]
5.10.3	No or inadequate on site written operating practices for receiving, unloading, and segregating waste and for responding to automated alarms. [<i>Directive 058</i> 7.6.1(139); specific application and/or approval]
5.10.4	Use of a small incinerator does not meet requirements. [<i>Directive 058</i> 7.6.2(144)(b), 7.6.2(146); specific application and/or approval]
5.10.5	Small incinerator not located a minimum of 1.5 km from any residences or public facility. [<i>Directive 058</i> 7.6.2(144)(a)]
5.10.6	No notification to the AER. [<i>Directive 058</i> 7.6.2(142)(b)]

6 Public Safety

6.1 ERPs

Manual #	Description
6.1.1.1	Failure to have a corporate-level ERP. [<i>Directive 071</i> 2.1(1)]
6.1.2.1	Corporate ERP not on site. [<i>Directive 058</i> 6.6(99)]
6.1.3.1	Failure to ensure that a call to the licensee 24-hour emergency telephone number initiates immediate action. [<i>Directive 071</i> 2.1(3)]

Manual #	Description
6.1.4.1	Failure to ensure that the licensee 24-hour emergency telephone number is posted by way of a conspicuous sign erected at the entrance to all licensee well and facility operations. [<i>Directive 071 2.1(4)</i>]

50 Public Lands Act

50 General

Manual #	Description
50.1.1.1	Unauthorized Use - No approval or disposition associated with disturbance or use of public land. [<i>PLA 20(1), 47(1)(a)</i>]
50.2.1.1	Unauthorized Use (Purpose) - Disposition being used for purpose other than for which it was approved. [<i>PLA 20(1)(e); PLAR 173(1); approval</i>]
50.4.1.1	Cuts / fills not recontoured to a stable slope. [<i>PLAR 173(1); approval</i>]
50.5.1.1	Erosion on site not being controlled. [<i>PLA 54(1)(f); PLAR 173(1); approval</i>]
50.6.1.1	Timber not salvaged as per approval. [<i>PLAR 173(1); approval</i>]
50.8.1.1	Brush/debris disposal not completed as required by approval. [<i>PLAR 173(1); approval</i>]
50.9.1.1	Waste material, debris, refuse, or garbage accumulating on site. [<i>PLA 54(1)(a); PLAR 21(1)(h)</i>]
50.11.1.1	Weeds not actively being managed. [<i>PLA 63(b); PLAR 173(1); approval</i>]
50.13.1.1	Prohibited species identified in approval used for revegetation. [<i>PLAR 173(1); approval</i>]
50.14.1.1	Operating within restricted time period identified in approval. [<i>PLAR 173(1)</i>]
50.15.1.1	Access control requirements outlined in approval not met. [<i>PLAR 173(1)</i>]

51 Water Management

Manual #	Description
51.1.1.1	Deleterious material deposited into, or onto the ice of, a water body or watercourse. [<i>PLA 54(1)(e); PLAR 173(1), approval</i>]
51.2.1.1	Unsatisfactory crossing of a permanent or fish-bearing watercourse. [<i>PLA 54(1)(e)(f); PLAR 21 (1)(j), approval</i>]
51.3.1.1	Unsatisfactory crossing of an ephemeral or intermittent watercourse, wetland, cross-drain, or other non-fish-bearing water body. [<i>PLA 54(1)(e)(f), PLAR 173(1), approval</i>]
51.4.1.1	Crossing type not as per approval. [<i>PLAR 173(1)</i>]
51.5.1.1	Operation or infrastructure on disposition interfering with natural drainage, other than what has been approved. [<i>(PLA 54(1)(d-f))</i>]
51.6.1.1	Disturbance to bed and shore of water bodies other than what is approved through approval. [<i>PLA 53(a), 54(e)</i>]

52 Conservation and Reclamation

Manual #	Description
52.1.1.1	Proper soil conservation techniques not being used. [<i>PLA 63(d); PLAR 21(f), 173(1), approval</i>]
52.2.1.1	Interim reclamation not implemented on disposition within required time frame. [<i>Approval</i>]

53 EAP Dispositions

Manual #	Description
53.1.1.1	Regulator not notified of entry within 72 hours. [PLAR 173(1)]
53.4.1.1.1	Class of road built is greater than maximum outlined in approval. [PLAR 173(1)]
53.5.1.1	Required wildlife survey not completed. [PLAR 173(1); approval]
53.6.1.1	Wildlife signage not installed as required. [PLAR 173(1); approval]
53.7.1.1	100m wildlife sweep not conducted appropriately prior to construction. [PLAR 173(1); approval]
53.10.1.1	Access to non-producing well off public grade road not closed to highway traffic within 1 year. [PLAR 173(1); approval]

59 Other

Manual #	Description
59.1.1.1	Other contravention of approval condition. [PLAR 173(1)]
59.2.1.1	Other contravention of act or regulation.

60 EPEA

60.1 EPEA Releases

Manual #	Description
60.1.1.1	Failure to report a release as required. [EPEA 110(1)(2)]
60.1.2.1	Release report requirements not met. [EPEA 111(1)–(3); RRR 4]
60.1.3.1	Failure to take remedial measures. [EPEA 112]

60.6 EPEA Other

Manual #	Description
60.6.1.1	Noncompliant with other EPEA item. (Specified in comments)

70 Water Act Approval

70.1 Approval Conditions

Manual #	Description
70.1.1.1	No Water Act approval obtained for activity. [WA 36]
70.1.2.1	Approval/plans/reports not retained, posted, produced as required. [See specific approval; WA 39, 142(1)(e)]
70.1.3.1	Contravention reporting/written report not submitted as required by approval. [See specific approval; WA 142(1)(e)]
70.1.4.1	Works conducted does not meet the approval activity description. [See specific approval; WA 142(1)(e)]
70.1.5.1	The activity is not undertaken as described in the approval plan(s)/report(s). [See specific approval; WA 142(1)(e)]
70.1.6.1	The activity is not undertaken as described in the approval particulars. [See specific approval; WA 142(1)(e)]
70.1.7.1	The activity is not undertaken to meet the siltation and erosion control requirements. [See specific approval; WA 142(1)(e)]

Manual #	Description
70.1.8.1	The activity does not meet the wetland compensation requirements as described in the approval. [See specific approval; WA 142(1)(e)]
70.1.9.1	Certificate of completion not completed as described in the approval. [See specific approval; WA 142(1)(e)]
70.1.10.1	Other (Unique condition/clause described in the approval that is not identified above). [See specific approval; WA 142(1)(e)]
70.1.11.1	Construction timing/methods or plans/reports/manuals/safety review submissions not completed as required in the approval. [See specific approval; WA 142(1)(e)]
70.1.12.1	Monitoring methodology or reporting do not meet requirements as required in the approval. [See specific approval; WA 142(1)(e)]

71 Water Wells

71.1 Approval Conditions

Manual #	Description
71.1.1.1	The class of approval is incorrect. [WWGSHES Directive 2.1; WA 142(1)(e)]
71.1.2.1	Drilling, saline groundwater and/or gas reports not conducted as required. [WWGSHES Directive 3.10; WA 142(1)(e)]
71.1.3.1	Water well site specifications do not meet the requirements. [WWGSHES Directive 3.1; WA 142(1)(e)]
71.1.4.1	Pumping equipment and/or venting specifications do not meet the requirements. [WWGSHES Directive 3.5; WA 142(1)(e)]
71.1.5.1	Flowing water wells, maximum allowable flow of flowing water well and/or flow device does not meet the requirements. [WWGSHES Directive 3.8; WA 142(1)(e)]
71.1.6.1	Water well and/or pumping equipment disinfection does not meet the requirements. [WWGSHES Directive 3.6; WA 142(1)(e)]
71.1.7.1	Testing of water yield does not meet the requirements. [WWGSHES Directive 3.4; WA 142(1)(e)]
71.1.8.1	Water well reclamation does not meet the requirements. [WWGSHES Directive 3.7; WMR 66; WA 142(1)(e)]
71.1.9.1	Inactive water well requirements not met. [WMR 67; WA 142(1)(e)]
71.1.10.1	Reconditioning of water well requirements not met. [WWGSHES Directive 3.9; WA 142(1)(e)]
71.1.11.1	Security and well driller requirements not met. [WMR 70; WA 142(1)(e)]
71.1.12.1	Rig plate requirements not met. [WWGSHES Directive 2.2; WA 39(b), 142(1)(e)]
71.1.13.1	Water well construction methods do not meet the requirements. [WWGSHES Directive 3.2; WMR 68; WA 142(1)(e)]
71.1.14.1	Water well sediment protection does not meet the requirements. [WWGSHES Directive 3.3; WA 142(1)(e)]

72 Water Act Licence

72.1 Licence Conditions

Manual #	Description
72.1.1.1	No <i>Water Act</i> licence obtained for diversion. [WA 49(1)]
72.1.2.1	Contravention reporting / written reports not completed as described in the licence. [Licence condition; WA 142(1)(e)]

Manual #	Description
72.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
72.1.4.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
72.1.5.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(1)(e)]
72.1.6.1	Point of use not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.7.1	Diverting water for purpose other than described in the licence. [Licence condition; WMR 11; WA 142(1)(e)]
72.1.8.1	The works used to divert the water not as described in the licence. [Licence condition; WA 142 (1)(e)]
72.1.9.1	Exceeded diversion limit/rate described in the licence. [Licence condition; WA 142(1)(e)]
72.1.10.1	Screen on pump intake not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.11.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.12.1	Measuring diversion source water and calibration requirements not completed as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.13.1	Monitoring frequencies not completed as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.14.1	In-stream objectives not met as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.15.1	Recording and reporting requirements not met as described in the licence [Licence condition; WA 142(1)(e)]
72.1.16.1	Water use reporting requirements not completed as described in the licence. [Licence condition]
72.1.17.1	Licensee did not investigate all written complaints as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.18.1	Licensee did not conduct/complete water sampling as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.19.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
72.1.20.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

73 Water Act Temporary Diversion Licence (TDL)

73.1 TDL Conditions

Manual #	Description
73.1.1.1	No temporary diversion licence obtained for activity. [WA 49; 142(1)(e)]
73.1.2.1	Contravention(s) not immediately reported. [Licence condition; WA 142(1)(e)]
73.1.3.1	Deposit of a substance that has or may have the potential to adversely affect the source water. [Licence condition; WA 142(1)(e)]
73.1.4.1	Licence not kept at the point of diversion. [WA 65, 142(1)(e)]
73.1.5.1	Licence not kept in the vehicle that transports the water. [WA 65, 142(1)(e)]
73.1.6.1	Diverted water from location other than point of diversion described in the licence. [Licence condition; WA 142(1)(e)]
73.1.7.1	Diverted water from source other than source of water described in the licence. [Licence condition; WA 142(1)(e)]

Manual #	Description
73.1.8.1	Point of use not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.9.1	Diverting water for purpose other than described in the licence. [Licence condition; WMR 11; WA 142(1)(e)]
73.1.10.1	The works used to divert the water not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.11.1	Volume allowed exceeded. [Licence condition; WA 142(1)(e)]
73.1.12.1	Rate of diversion greater than what was described in the licence. [Licence condition; WA 142(1)(e)]
73.1.13.1	Screen on pump intake not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.14.1	Pump intake position in the production well(s) not as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.15.1	Total volume of water diverted on each occasion is not monitored /measured as described in licence. [Licence condition; WA 142(1)(e)]
73.1.16.1	Recording and reporting requirements not met as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.17.1	Licensee did not abandon/reclaim wells/holes related to the diversion as described in the licence. [Licence condition; WA 142(1)(e)]
73.1.18.1	Other (Unique condition/clause described in the licence that is not identified above). [Licence condition; WA 142(1)(e)]

75 Water (Ministerial) Regulation

75.2 Part 6: Dam and Canal Safety

Manual #	Description
75.2.1.1	The dam owner is not following the <i>Dam Safety Directive</i> . [WMR 28]
75.2.2.1	The dam owner has not ensured that the design and construction of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a) and DSD 5.14]
75.2.3.1	The dam owner has not ensured that the dam was operated in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.4.1	The dam owner has not ensured that the decommissioning, closure, and abandonment of the dam was done in a manner that effects or maintains the safety of the dam. [WMR 29(1)(a)]
75.2.5.1	The dam owner has not ensured that there is sufficient surveillance, maintenance, and repairs. [WMR 29(1)(c)]
75.2.6.1	The dam owner does not have a dam safety management plan. [WMR 29(1)(d) and DSD 4.1, 4.2]
75.2.7.1	The dam owner has not ensured that all safety deficiencies have been identified, tracked, and managed until corrected. [WMR 29(1)(e) and DSD 4.5(1)]
75.2.8.1	The dam owner has not addressed all critical safety deficiencies in accordance with the <i>Dam Safety Directive</i> . [WMR 29(1)(f) and DSD 4.5(2)]
75.2.9.1	The dam owner has not exercised reasonable care and due diligence to risk factors that can increase the inherent risk of the approved dam. [WMR 29(2)]
75.2.10.1	The owner has not ensured the dam is designed and constructed by a qualified professional. [WMR 30(1) and DSD 5.2]
75.2.11.1	The owner has not ensured that the construction of the dam conforms to the accepted drawings and the <i>Dam Safety Directive</i> . [WMR 30(1)(b)(ii) and DSD 5.14]
75.2.12.1	The owner has not conducted investigations, surveillance, assessments, and evaluations by qualified individuals. [WMR 30(2) and DSD 5.4, 5.18]

Manual #	Description
75.2.13.1	The owner has not prepared, maintained, reviewed, and updated an operations, surveillance, and maintenance manual. [WMR 31(1)(a) and DSD 6.1]
75.2.14.1	The owner has not conducted operations, surveillance, and maintenance of the dam in accordance with the OMS manual. [WMR 31(1)(b)]
75.2.15.1	The dam owner has not installed, operated, or maintained instrumentation as required by the OMS manual. [WMR 31(3)]
75.2.16.1	The dam owner has not prepared, maintained, reviewed, and updated the EMP for the dam by a qualified individual. [WMR 32(2) and DSD 7.1, 7.3]
75.2.17.1	The dam owner has not shared all relevant up to date information with those potentially impacted by an emergency. [WMR 32(3) and DSD 7.1(4)]
75.2.18.1	The dam owner has not operated the dam in accordance with the EMP when there is an increased risk to factors at risk. [WMR 32(4)(a)]
75.2.19.1	The dam owner has not notified the director of the nature of the conditions, any actions undertaken, and any information provided to persons on those conditions, that have increased the risk to factors at risk. [WMR 32(4)(b)]
75.2.20.1	The dam owner has not notified the director of hazardous condition, safety deficiency, potential safety hazard, major repairs, significant changes to operations or surveillance / inspection plans and outcomes in response to a hazardous condition. [WMR 33(1) and DSD 8.1]
75.2.21.1	The dam owner has not provided the requested information or resources as required to the Director. [WMR 33(2)]
75.2.22.1	The dam owner has not prepared or submitted a decommissioning closure abandonment plan. [WMR 34(1) and DSD 9.6]
75.2.23.1	The dam/canal owner shall not implement a plan referred to in subsection (1) unless the Director has confirmed in writing that the plan meets the criteria set out in the <i>Dam and Canal Safety Directive</i> . [WMR 34(2) and DSD 9.9]
75.2.24.1	The dam owner has not conducted a consequence classification of the dam. [WMR 34.1(3) and DSD 3.1 and DSD 3.4]
75.2.25.1	The dam owner has not reported a change in the consequence classification to the Director. [WMR 34.1(5) and DSD 3.3 and DSD 3.4]
75.2.26.1	The dam owner has not conducted a systematic risk assessment in accordance with the <i>Dam Safety Directive</i> . [WMR 34.3 and DSD 5.22]
75.2.27.1	Noncompliant with other WMR item (specified in comments).

75.3 Dam and Canal Safety Directive

Manual #	Description
75.3.1.1	The owner has not submitted the required information for an application or authorization for a dam. [DSD 2.1, 2.2, 2.3]
75.3.2.1	The owner has not prepared or submitted a construction completion report as required DSD. [DSD 5.17]
75.3.3.1	The owner has not undertaken an annual engineering inspection as required. [DSD 5.19]
75.3.4.1	The owner has not undertaken an annual performance review as required. [DSD 5.20]
75.3.5.1	The owner has not undertaken a dam safety review as required. [DSD 5.21(1)]
75.3.6.1	The owner has not held an orientation workshop or emergency drill, or conducted an exercise as required. [DSD 7.4]
75.3.7.1	The owner has not developed a cessation / resumption plan as required. [DSD 9.1(1)]
75.3.8.1	The owner has not notified the Director of the cessation / resumption as required. [DSD 9.2(1), (2)]
75.3.9.1	The owner has not submitted the post implementation report. [DSD 9.5]

Manual #	Description
75.3.10.1	The owner has not notified the Director of deviation from the accepted decommissioning, abandonment, closure plan. [<i>DSD</i> 9.9]
75.3.11.1	The owner has not submitted the completion report of decommissioning, closure, and abandonment of a dam. [<i>DSD</i> 9.10]
75.3.12.1	Noncompliant with other <i>DSD</i> item (specified in comments).

99 Other

99.1 Other

Manual #	Description
99.1.1.1	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
99.1.1.2	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)
99.1.1.3	Noncompliant with other AER requirement(s) (see comments for details). [Refer to the applicable AER requirement.]. (Not all compliance statements are referenced in the manual. Inspectors may use “other” to capture items not listed.)