



Environmental Protection and
Assessment Branch

Environment Act
INSPECTION REPORT

Permit No.: 60-010-01

Inspection Report No.: 2022-068

GENERAL INFORMATION

PERMITTEE: Yukon Energy Corporation		
PERSON CONTACTED: Gary JONES & Travis RITCHIE	ACCOMPANIED BY: Gary JONES	INSPECTED BY: Emily SESSFORD
MAILING ADDRESS: Box 5920, Whitehorse, YT Y1A 6S7		
LOCATION: 413 Campbell Street, Faro, YT Y0B 1K0		
INSPECTION DATE & TIME: October 14, 2022 13:00	PERMIT EXPIRY DATE: December 31, 2031	LAST INSPECTED: N/A

PERMIT TYPE

<input type="checkbox"/> Air Emissions	<input type="checkbox"/> Ministerial Authorization	<input type="checkbox"/> Solid Waste Management
<input type="checkbox"/> Beverage Containers	<input type="checkbox"/> Pesticides	<input type="checkbox"/> Special Waste
<input type="checkbox"/> Designated Materials	<input type="checkbox"/> Relocation	<input type="checkbox"/> Ozone Depleting Substances & Other Halocarbons
<input type="checkbox"/> Land Treatment Facility	<input type="checkbox"/> Risk-Based Restoration	

INSPECTED ACTIVITIES

CONDITIONS: A – Acceptable			C – Concerns			U – Unacceptable			N/A – Not Applicable			N/I – Not Inspected		
Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment
Closure/ Decommissioning	N/A		Management of Contaminated Water	N/A		Signage & Segregation	N/A							
Construction	N/A		Opacity	N/A		Site Conditions	N/A							
Emissions Monitoring	C	*3,*4,*7	Pesticide Appendix	N/A		Soil Handling & Stockpiling	N/A							
Facility Maintenance	A		Pesticide Application	N/A		Spills	A	*8						
Facility Operations	A	*1,*2	Pesticide Applicator Certifications	N/A		Storage & Disposal	N/A							
Facility Specifications	N/A		Pesticide Transportation	N/A		Storage & Handling	N/A							
Fencing & Security	N/A		Release of Contaminants	A	*3	Testing & Emissions Management	A	*4						
Incineration/ Burning	N/A		Relocation of Contaminated Material	N/A		Transport & Transfer	N/A							
Inspections, Record Keeping & Reporting	C	*5,*6,*8	Removal of Remediated Soil	N/A		Unauthorized Emissions	A	*7						
Cell coverage	N/A		Sampling & Analysis	N/A		Other								

ENFORCEMENT ACTION

<input type="checkbox"/> Written Warning	<input type="checkbox"/> Inspector's Direction	<input type="checkbox"/> Non-Compliance
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INSPECTION COMMENTS

On October 14th 2022, the undersigned officer conducted an inspection of air emissions permit 60-010-01 site location 413 Campbell Street, Faro, Yukon. At time of inspection no generators were in operation and all electricity was being generated via hydro.

Scope of Authorization

- Permittee is authorized to operate electricity generating equipment at the site noted on permit, to a site capacity of 15.5MW as set out in the terms and condition of this permit.

General*1

- Permittee is compliant with condition 2.3 to ensure that all associated personnel (a) have access to a copy of this permit; (b) are knowledgeable of the terms and conditions of this permit; and (c) receive the appropriate training for the purposes of carrying out the requirements of this permit.
 - On inspection, (a) a copy of this permit is posted in the main office; (b) personnel are informed of permit when knew to position; (c) confirmation by JONES that Yukon Energy has environmental policies regarding aspects of permit including spill reporting.

INSPECTOR

Signature: _____

Printed Name: Emily Sessford

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Signature: _____

Printed Name: _____

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Environment Act
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Environmental Protection and Assessment Branch**Operation and Maintenance*2**

- Permittee is compliant with condition 3.1 to operate any combination of the two permanent diesel generators and six rental diesel generators to a site capacity of 15.5MW of power.
 - There was six rental generators marked as: YM20, YM21, YM22, YM23, YM24 and YM26. All rental generators are 1.8MW max energy output. JONES noted typically no more than 3-4 maximum would ever be running at one time, in the higher consumption months November-February.
 - There are two permanent generators in two separate buildings marked as: FD1 and FD7.
 - Permittee is reminded that a permit amendment must be obtained prior to adding generators beyond the currently installed capacity.
- Permittee has indicated that compliance with condition 3.2 is met. To in accordance with the manufacturer's recommendations and best management practices, the permittee shall inspect, maintain and operate the sources, and stand-alone air pollution control equipment, and testing and monitoring equipment as necessary to provide optimum control of air contaminant emissions during all operating periods.
 - The 2021 Annual Report from Yukon Energy states in comment 3 that "all applicable maintenance conducted on the fleet in 2021 was in accordance with the unit manufacturer's instructions and recommendations.
 - JONES noted on inspection if they observe issue, it is reported to supervisor / Whitehorse.
- As required in condition 3.3, permittee confirmed the sources are run in order of the highest possible efficiency under the circumstances.
 - The rental generators are typically ran first as they are most efficient. If possible, the FD1 permanent generator is not used as it is less efficient. It is anticipated to be replaced in the upcoming years.
- Permittee appears to be in compliance with condition 3.4 to ensure that the fuel used by the source(s) conforms to the most recent Canadian federal *Sulphur in Diesel Fuel Regulations* for off-road applications.
 - Ultra low Sulphur fuel is used. Winter fuel is burnt all year round and is supplied by North of 60.
- **Release of Contaminants*3**
Permittee at time of inspection was compliant with 4.1 and 4.2 with regards to emissions and opacity.
 - On inspection no visible emissions where observed.
- Condition 4.3 states that permittee shall ensure that particulates collected using emission control equipment are contained so that there is no release of contaminants to the atmosphere or into an open body of water.
 - JONES was not sure about this condition. However, it was noted by RITCHIE while on inspection of Whitehorse station that: the only control equipment used is that which is installed by the manufacturer.

Monitoring Emissions*4

- Permittee has reached compliance with conditions 5.1 to submit a monitoring plan for NO₂ to the environmental protection analyst.
 - It has been confirmed with environmental protection analyst that documentation was sent in October 2022.
 - Any follow-up required based on what was submitted with regards to part 5 of permit will initially be through the environmental protection analyst.

INSPECTOR

Signature: _____

Printed Name: Emily Sessford

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Signature: _____

Printed Name: _____

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Environment Act
INSPECTION REPORT

Permit No.: 60-010-01

Inspection Report No.: 2022-068

Environmental Protection and Assessment Branch**Complaint Management System*5**

- Permittee has failed to meet condition 6.1 (a-f) or 6.2 (a-b) with regards to the Complaint Management System. As noted in 2.9 of permit "all conditions of this permit must be met within 90 days of the permit effective date".
 - Follow-up with an environmental protection analysts regarding 6.1 and 6.2 is required.

Reporting*6

- Permittee is compliant with condition 7 (a-d) with regards to reporting.

Unauthorized Emissions*7

- Permittee appears to be compliant with condition 7.1 with regards to unauthorized emissions, and reporting.
 - JONES said there have been no unauthorized releases and that they have internal protocols for any spills that occur.

Records*8

- Records as required in condition 8.2 were not available at time of inspection, however JONES noted that all records are sent to the Whitehorse main station.

Corrective Action/Follow-up

1. Permittee is requested to confirm condition 4.3 is being met at the Faro station with regards adequate equipment installation to ensure that particulates collected using emission control equipment are contained so that there is no release of contaminants to the atmosphere or into an open body of water.
2. Permittee is requested to meet condition 6.1 (a-f) or 6.2 (a-b) with regards to the Complaint Management System. Follow-up with an environmental protection analysts regarding 6.1 and 6.2 is required.
3. Permittee is requested to provide an example of the records collected as noted in condition 8.2 (b).
4. Permittee is requested to provide all records since issuance of this permit May 11th 2022, pertaining to conditions 8.2(c), (d) and (e).

Please provide all required corrective action/follow-up to the undersigned officer no later than November 25th 2022.

Where applicable please follow up with Sarah Preiksaitis, environmental protection analyst at sarah.preiksaitis@yukon.ca.

INSPECTORSignature: 

Printed Name: Emily Sessford

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Signature: _____

Printed Name: _____

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Environmental Protection and
Assessment Branch

Environment Act
INSPECTION REPORT

Permit No.: 60-010-01

Inspection Report No.: 2023-038

GENERAL INFORMATION

PERMITTEE: Yukon Energy Corporation		
PERSON CONTACTED: Gary JONES & Travis RITCHIE	ACCOMPANIED BY: Gary JONES Attila HEIPEL	INSPECTED BY: Emily SESSFORD & Liz BARKER
MAILING ADDRESS: Box 5920, Whitehorse, YT Y1A 6S7		
LOCATION: 413 Campbell Street, Faro, YT Y0B 1K0		
INSPECTION DATE & TIME: May 10, 2023 12:00	PERMIT EXPIRY DATE: December 31, 2031	LAST INSPECTED: October 14, 2022

PERMIT TYPE

<input type="checkbox"/> Air Emissions	<input type="checkbox"/> Ministerial Authorization	<input type="checkbox"/> Solid Waste Management
<input type="checkbox"/> Beverage Containers	<input type="checkbox"/> Pesticides	<input type="checkbox"/> Special Waste
<input type="checkbox"/> Designated Materials	<input type="checkbox"/> Relocation	<input type="checkbox"/> Ozone Depleting Substances & Other Halocarbons
<input type="checkbox"/> Land Treatment Facility	<input type="checkbox"/> Risk-Based Restoration	

INSPECTED ACTIVITIES

CONDITIONS: A – Acceptable			C – Concerns			U – Unacceptable			N/A – Not Applicable			N/I – Not Inspected		
Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment
Closure/ Decommissioning	U	*1	Management of Contaminated Water	N/A		Signage & Segregation	N/A							
Construction	N/A		Opacity	N/A		Site Conditions	N/A							
Emissions Monitoring	A	*3,*7	Pesticide Appendix	N/A		Soil Handling & Stockpiling	N/A							
Facility Maintenance	A	*2	Pesticide Application	N/A		Spills	A	*7						
Facility Operations	A	*2	Pesticide Applicator Certifications	N/A		Storage & Disposal	N/A							
Facility Specifications	N/A		Pesticide Transportation	N/A		Storage & Handling	N/A							
Fencing & Security	N/A		Release of Contaminants	A		Testing & Emissions Management	A							
Incineration/ Burning	N/A		Relocation of Contaminated Material	N/A		Transport & Transfer	N/A							
Inspections, Record Keeping & Reporting	C	*1,*5,*6*8	Removal of Remediated Soil	N/A		Unauthorized Emissions	A	*4,*7						
Cell coverage	N/A		Sampling & Analysis	N/A		Other								

ENFORCEMENT ACTION

<input type="checkbox"/> Written Warning	<input type="checkbox"/> Inspector's Direction	<input checked="" type="checkbox"/> Non-Compliance
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INSPECTION COMMENTS

On May 10, 2023, the undersigned officer along with Liz BARKER, Environmental Protection Analyst with Standards & Approvals, conducted an inspection of air emissions permit 60-010-01 site location 413 Campbell Street, Faro, Yukon. At time of inspection no generators were in operation and all electricity was being generated via hydro.

Scope of Authorization

- Permittee is authorized to operate electricity generating equipment at the site noted on permit, to a site capacity of 15.5MW as set out in the terms and condition of this permit.

General*1

- Permittee is compliant with condition 2.3 to ensure that all associated personnel (a) have access to a copy of this permit; (b) are knowledgeable of the terms and conditions of this permit; and (c) receive the appropriate training for the purposes of carrying out the requirements of this permit.
 - On inspection, (a) a copy of this permit is posted in the main office; (b) personnel were all aware of permit and (c) applicable training is provided by Yukon Energy.

INSPECTOR

Signature: _____

Printed Name: Emily Sessford

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Signature: _____

Printed Name: _____

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Permit No.: 60-010-01

Inspection Report No.: 2023-038

Environmental Protection and Assessment Branch

- Permittee has failed to meet condition 2.5 to obtain approval from an environmental protection analysts prior to: (a) any additional, modification, removal or replacement of any equipment or components related to the release, abatement, control or treatment of air emissions; or (b) any change in location of the source(s).
 - It was noticed on inspection that generator FD-1 is in the process of being decommissioned.
 - indication was made that this generator in the upcoming years may be decommissioned as noted in Inspection Report 2022-068, however no notification of this occurring was ever received by Environmental Protection & Assessment Branch nor was any approval by the Branch given.
 - Site inspection indicated that 4 of the rental generators (YM26-T1, YM25-T1, YM24-T1 and YM22-T1) had been move from location and construction to set them up in another location was underway. (Figure:1)

Operation and Maintenance*2

- Permittee is compliant with condition 3.1 to operate any combination of the two permanent diesel generators and six rental diesel generators to a site capacity of 15.5MW of power.
 - There was six rental generators marked as YM20, YM11, YM26-T1, YM25-T1, YM24-T1 and YM22-T1. All rental generators are 1.8MW max energy output.
 - There is an alarm system in place if capacity of generators is been reached, this can be monitored by SCC (system control center) in Whitehorse.
 - There is one permanent generator in operation FD-7.
- Permittee is reminded of condition 3.2, to in accordance with the manufacturer's recommendations and best management practices, to inspect, maintain and operate the sources, and stand-alone air pollution control equipment, and testing and monitoring equipment as necessary to provide optimum control of air contaminant emissions during all operating periods.
- Permittee appears to be in compliance with condition 3.4 to ensure that the fuel used by the source(s) conforms to the most recent Canadian federal *Sulphur in Diesel Fuel Regulations* for off-road applications.
 - As confirmed on previous inspection (Report#2022-068), Ultra low Sulphur fuel is used. Winter fuel is burnt all year round and is supplied by North of 60.

Release of Contaminants*3

- Permittee at time of inspection was compliant with 4.1 and 4.2 with regards to emissions and opacity.
 - On inspection no visible emissions where observed.
- Condition 4.3 states that permittee shall ensure that particulates collected using emission control equipment are contained so that there is no release of contaminants to the atmosphere or into an open body of water.
 - Previous inspections of Yukon Energy have indicated that: the only control equipment used is that which is installed by the manufacturer.

Monitoring Emissions*4

- Permittee has reached compliance with conditions 5.1 to submit a monitoring plan for NO₂ to the environmental protection analyst.
 - It has been confirmed with environmental protection analyst that documentation was submitted October 2022.

INSPECTOR

Signature: _____

Printed Name: Emily Sessford

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Printed Name: _____

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Permit No.: 60-010-01

Inspection Report No.: 2023-038

Environmental Protection and Assessment Branch

- Any follow-up required based on what was submitted with regards to part 5 of permit will initially be through the environmental protection analyst.

Complaint Management System*5

- Permittee has reached aspects of compliance condition 6.1 (a-f) and 6.2 (a-b) with regards to the Complaint Management System. As noted in 2.9 of permit "all conditions of this permit must be met within 90 days of the permit effective date".
 - The Complaint Management System has been reviewed and approved by an Environmental Protection Analyst.
 - It was noted on inspection that the operator were not aware of the Complaint Management procedure in place.

Reporting*6

- Permittee is compliant with condition 7 (a-d) with regards to reporting.
 - Annual report was submitted to an Environmental Protection Analysts on March 31st 2023.

Unauthorized Emissions*7

- Permittee appears to be compliant with condition 7.1 with regards to unauthorized emissions, and reporting.
 - JONES said there have been no unauthorized releases and that they have internal protocols for any spills that occur.
 - Reported spill 22-056 is still in the process of being remediated as ground is still frozen. (Figure: 2)

Records*8

- Records as required in condition 8.2 are mainly kept at the Whitehorse main SCC.

Corrective Action/Follow-up

1. Permittee is requested to follow-up with regards to site changes, this includes decommissioning of generator FD-1, and the change in location of generators YM26-T1, YM25-T1, YM24-T1 and YM22-T1, as well as any other anticipated development or changes that may be occurring as required by permit. **Please follow up with Elizabeth Barker, environmental protection analyst at Elizabeth.Barker@yukon.ca.**
2. Permittee is requested to brief and make operators aware of the full complaint management system in place.

Please follow up with Elizabeth Barker, environmental protection analyst at Elizabeth.Barker@yukon.ca for Corrective action #1 no later than May 30th 2023.

Please provide confirmation of corrective action 2 with Emily Sessford, Environmental Compliance Officer at emily.sessford@yukon.ca no later than May 30th 2023.

INSPECTOR

Signature: _____

Printed Name: Emily Sessford

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Signature: _____

Printed Name: _____



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Environmental Protection and Assessment Branch



Figure 1: Site of 4 new rental generators.



Figure 2: Spill 22-056 area.

INSPECTOR
Signature: <u></u>
Printed Name: Emily Sessford

RECEIVED BY
Signature: _____
Printed Name: _____



Environment Act
INSPECTION REPORT

Permit No.: 60-010-01

Inspection Report No.: 2023-065

GENERAL INFORMATION		
PERMITTEE: Yukon Energy Corporation		
PERSON CONTACTED: Travis RITCHIE	ACCOMPANIED BY: Gary JONES	INSPECTED BY: T.SEARSON
MAILING ADDRESS: Box 5920, Whitehorse, YT Y1A 6S7		
LOCATION: 413 Campbell Street, Faro, YT Y0B 1K0		
INSPECTION DATE & TIME: May 10, 2023 12:00	PERMIT EXPIRY DATE: December 31, 2031	LAST INSPECTED: May 10, 2023 12:00

PERMIT TYPE		
<input type="checkbox"/> Air Emissions	<input type="checkbox"/> Ministerial Authorization	<input type="checkbox"/> Solid Waste Management
<input type="checkbox"/> Beverage Containers	<input type="checkbox"/> Pesticides	<input type="checkbox"/> Special Waste
<input type="checkbox"/> Designated Materials	<input type="checkbox"/> Relocation	<input type="checkbox"/> Ozone Depleting Substances & Other Halocarbons
<input type="checkbox"/> Land Treatment Facility	<input type="checkbox"/> Risk-Based Restoration	

INSPECTED ACTIVITIES														
CONDITIONS: A – Acceptable			C – Concerns			U – Unacceptable			N/A – Not Applicable			N/I – Not Inspected		
Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment	Activities	Condition	Comment
Closure/ Decommissioning	N/I		Management of Contaminated Water	N/A		Signage & Segregation	A							
Construction	A		Opacity	N/I		Site Conditions	A							
Emissions Monitoring	A		Pesticide Appendix	N/A		Soil Handling & Stockpiling	A	*1						
Facility Maintenance	A		Pesticide Application	N/A		Spills	A	*1						
Facility Operations	A		Pesticide Applicator Certifications	N/A		Storage & Disposal	A							
Facility Specifications	N/I		Pesticide Transportation	N/A		Storage & Handling	C	*2						
Fencing & Security	A		Release of Contaminants	A		Testing & Emissions Management	A							
Incineration/ Burning	N/A		Relocation of Contaminated Material	A		Transport & Transfer	N/I							
Inspections, Record Keeping & Reporting	A		Removal of Remediated Soil	N/A		Unauthorized Emissions	A							
Cell coverage	N/A		Sampling & Analysis	N/A		Other								

ENFORCEMENT ACTION		
<input type="checkbox"/> Written Warning	<input type="checkbox"/> Inspector's Direction	Non-Compliance

INSPECTION COMMENTS
<p>On June 27, 2023, the undersigned environmental compliance officer, met with Gary JONES at the Yukon Energy Corporation's (YEC) Faro Generation Station conducted an inspection of air emissions permit 60-010-01. At time of inspection no generators were in operation and all electricity was being generated via hydro.</p> <p>*1 The spill (report 22-056) that occurred on July 6, 2022 and resulted in glycol coolant on the ground was being remediated at the time of this inspection (Figure 1). Excavation of contaminated soils began on or about June 13, 2023.</p> <p>*2 Observations of cubic totes containing glycol coolant on June 27, 2023 were found to be uncovered and sitting in the open (Figure 2). It was conveyed to Operations Manager JONES, these totes should be secured and covered to prevent spills.</p> <p>No other concerns were observed.</p>

INSPECTOR
Signature: <u>Troy Seanson</u>
Printed Name: Troy Seanson

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Signature: _____
Printed Name: _____

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Environmental Protection and Assessment Branch



Figure 1: Site of spill 22-056 remediation efforts not yet complete on June 27, 2023.



Figure 2: Glycol coolant stored uncovered and unsecured.

INSPECTOR

Signature: _____

Printed Name: Troy Seanson

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Signature: _____

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