



EN-03-01

Prepared by: Maurice Guimond

Issue Date: Sept. 13, 2010

ENV SOP 1

Approved by: Rick Hunt

Rev. #3 / Rev Date: April, 2017

ENV SOP 1 – MANAGEMENT OF LIQUID WASTE

Purpose

The purpose of this procedure is to document the tasks and responsibilities related to the management of waste liquids on QEC properties to ensure it is handled and disposed of in a manner which conforms to regulations and minimizes the potential for spills, leaks and environmental damage.

Scope

This procedure applies to the proper handling and disposal of waste liquids in operational areas of QEC.

Definitions

Waste Oil / Used Oil	<i>Oil that as a result of contamination by any means or by its use is altered so that it is no longer suitable for its intended purpose. Includes waste diesel oil (fuel) and solvents.</i>
Waste Glycol	<i>Coolant that as a result of contamination by any means or by its use is altered so that it is no longer suitable for its intended purpose.</i>
Waste Paint	<i>Paint that as a result of contamination by any means or by its use is altered so that it is no longer suitable for its intended purpose.</i>

Details of the Procedure

Responsibility	Task
Waste Lube Oil Filters from Engines	
Plant Superintendent Plant Operators Operators/Assistants	When filters are removed from operating engines place filter on Full Cover Drum Funnel and drain residual oil into a designated waste oil drum (205 liter steel drums)
	Leave filters on funnel for at least 24 hours
	Where specific drums are available, place drained filters into empty, open top drums fitted with a screen in the bottom to facilitate further draining and empty that oil into the 205 liter steel drum
	Stencil the words "Waste Oil" onto the drum when it is 7/8 full (or glycol, fuel, solvents, mixed or paint)

QULLIQ ENERGY ENVIRONMENTAL STANDARD OPERATING PROCEDURES MANUAL



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Responsibility	Task
	Place drained filters in container for Oil Contaminated Solid Waste (see ENV SOP 2) Black Quatrex
Waste Fuel Filters	
Plant Superintendent Operators/Assistants	When filters are removed from operating engines place filter on Full Cover Drum Funnel and drain residual oil into a designated waste oil drum (205 liter steel drums)
	Leave filters on funnel for at least 24 hours
	Where specific drums are available, place drained filters into empty, open top drums fitted with a screen in the bottom to facilitate further draining and empty that oil into the 205 liter steel drum
	Stencil the words "Waste Fuel" onto the drum when it is 7/8 full
	Place drained filters in container for Oil Contaminated Solid Waste (see ENV SOP 2) Black Quatrex
Filled Waste Oil Drums	
Plant Superintendent Operators/Assistants	Place the filled drum into secure storage in a designated area of the plant yard (if yard is fenced, place drums inside gated area and lock gate. If yard is not fenced, place drums on stable ground on pallets and strap them down)
	Strap 4 drums to a pallet in the yard using ½ inch to ¾ inch steel strapping. Wrap two straps tightly around all four drums horizontally spacing the straps evenly over the height of drums. Place corner brackets on two opposite top corners of drums or full square plywood sheet cover. Strap twice over the brackets vertically and under pallet making sure drums are secured to the pallet and the straps cannot be caught in forklift forks (see Figures 1 and 2)
Plant Superintendent Operators/Assistants	Place appropriate TDG Labels on each drum (see Figure 3)
Plant Superintendent Operators/Assistants	Record amount of waste oil stored on Monthly Waste Products Form
Env. Specialist	Maintain GIS maps of wastes at each plant
	Prepare a Request for Proposal for disposal of the waste oil (in conjunction with the disposal of other wastes)
	Manage disposal contract with licensed contractor

***NOTE* Communities that crush their filters are to dispose in the local landfill**


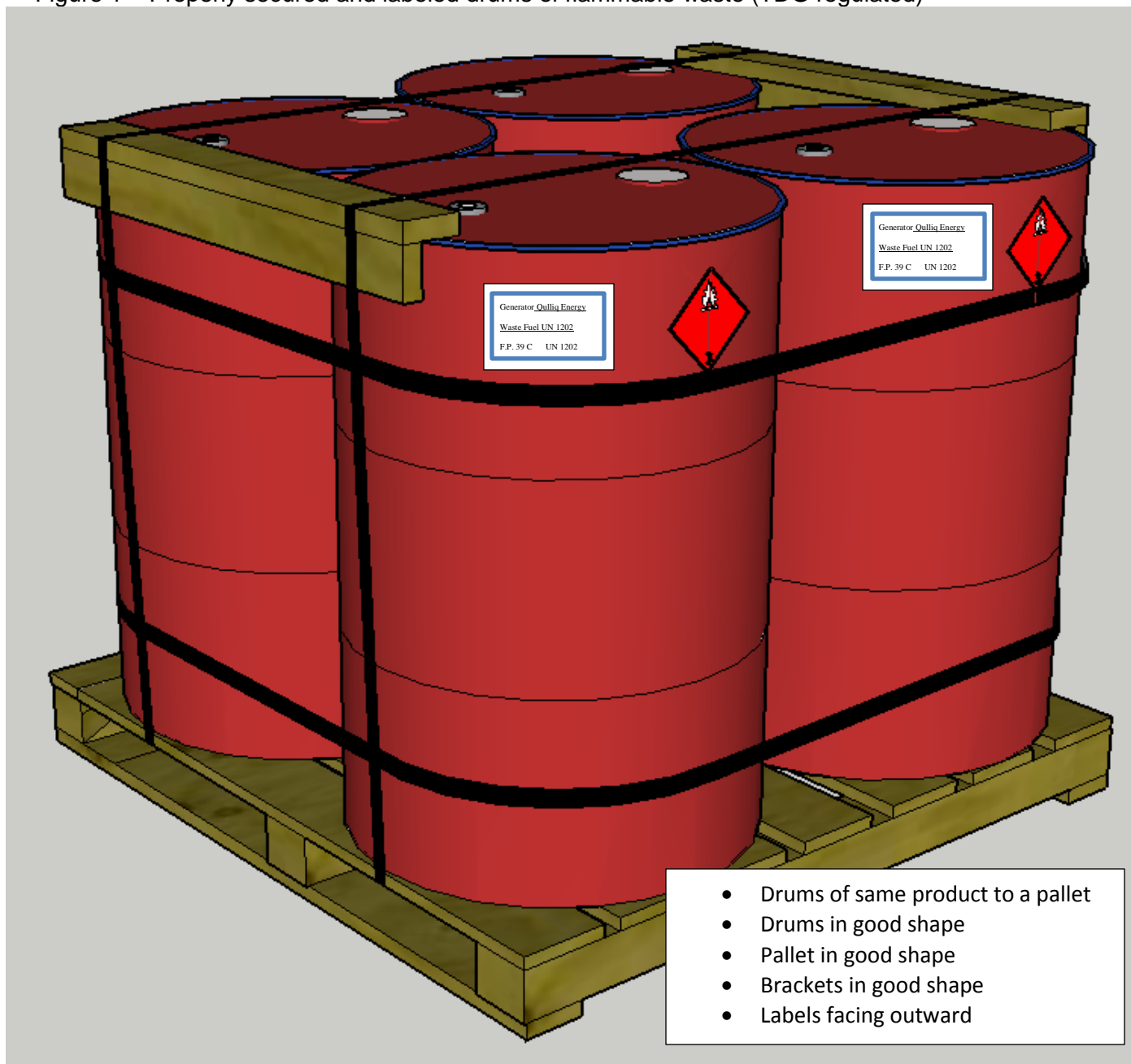
<div style="text-align: right;">  </div> QULLIQ ENERGY ENVIRONMENTAL STANDARD OPERATING PROCEDURES MANUAL		
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Figure 1 – Properly secured and labeled drums of flammable waste (TDG regulated)




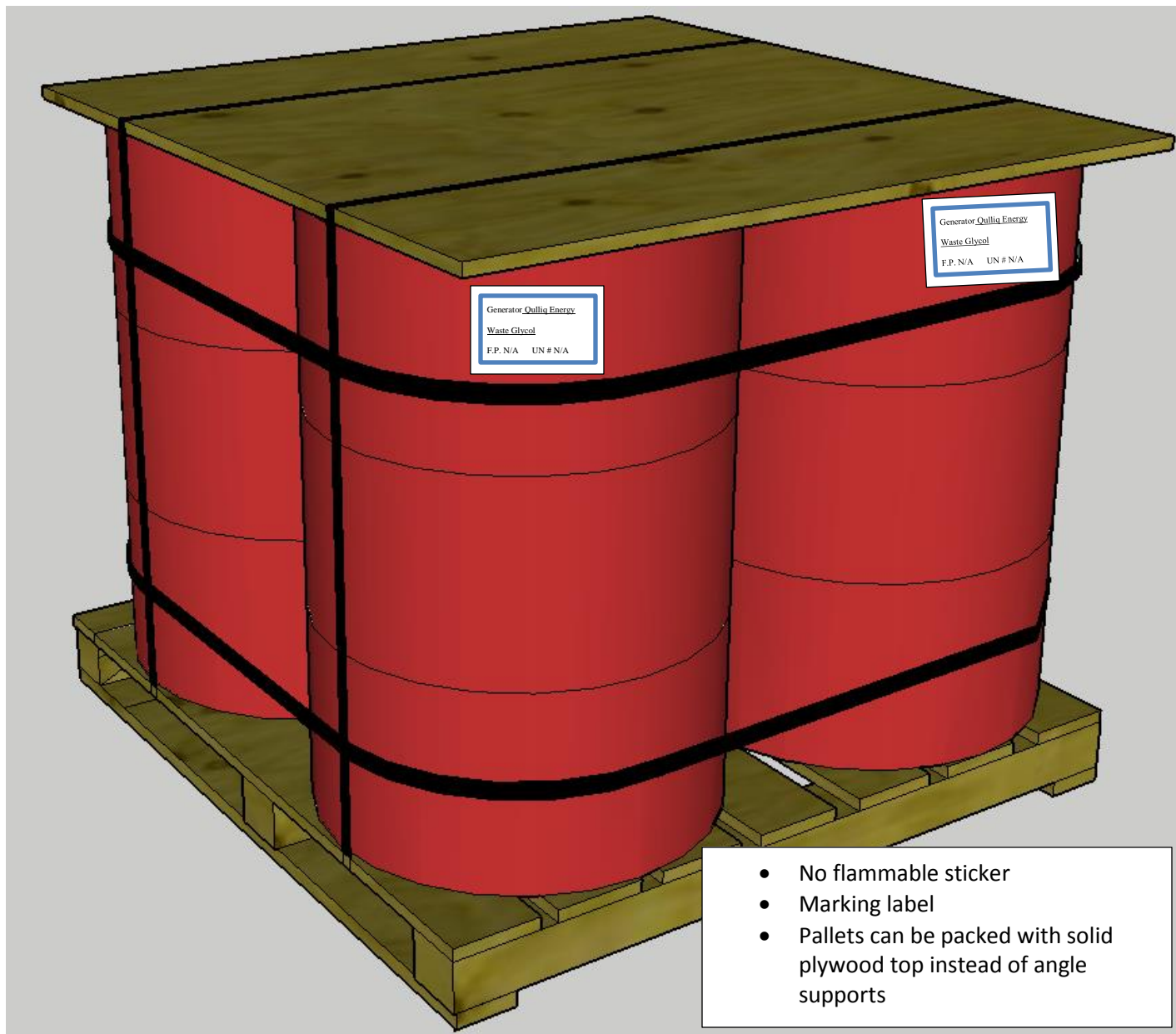
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Figure 2- Properly secured drums of non-flammable waste (Not TDG regulated)




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Figure 3 – Labels and Markings



Class 3 – Flammable Liquid sticker – Fuel, Solvents, Paint

WASTE OIL

WASTE GLYCOL

Labelling with markings, TDG class and U.N. Number

1. Stenciled "Waste Oil" – for Waste Lube Oil and Dirty **Waste Oil** Markings:

2. **Waste Oil** (Not TDG Regulated)
Label: N/A no class sticker

3. **Varsol**
Markings: Petroleum Distillates, n.o.s., (varsol), UN 1268, F.P. 40°C cc
Label: Class 3, flammable liquid sticker

4. **Paint**
Markings: Paint, UN 1263, F.P. 45°C cc
Label: Class 3, flammable liquid sticker

5. **Mixed waste**
Markings: Mixed waste (Not TDG Regulated)
Label: N/A no class sticker

6. **Waste Glycol**
Markings: Waste glycol (Not TDG Regulated)
Label: N/A no class sticker

7. **Diesel (fuel)**
Markings: Waste fuel/diesel, UN 1202, class 3, F.P. 39°C cc
Label: Class 3, flammable liquid sticker