ConocoPhillips Alaska, Inc.	ConocoPhillips Alaska Health, Safety and Environmental North Slope Liner and Drip Pan Use Guidance		Field: North Slope Last Reviewed: October 24, 2024
Retention Code	**Owner/Author**	**SOP Number**	**Review Frequency**
AD01	Ops Environmental Coordinator	S-002	3 years

Purpose

The purpose of this Standard Operating Procedure (SOP) is to minimize spill potential by:

- Ensuring the proper use of liners and drip pans for secondary containment
- Maintaining contaminant-free work sites
- Instill proper spill prevention techniques during normal North Slope field operations

Scope

This procedure applies to all personnel during:

- normal field operations and maintenance
- construction projects
- drilling operations
- temporary storage and/or transfer of fuels, and the
- equipment staging

In Scope	Out of Scope
• Oil tanks 10,000 gallons or greater • TTLA for ADEC regulated tanks • Oil containers 55 gallons or greater • Fuel tanks 660 gallons and greater • Vehicles and mobile/portable equipment • Best practice for other fluids	• Raw and potable water • Sales crude transmission pipelines, flowlines, and facility piping Waivers from 100% containment volume for: • CPF1 Slop Oil Tank • Kuparuk Produced Water Tank

NOTE: Under certain EPA criteria, oil-filled operational equipment are not required to have containment. Verify with FEC.

Fluid Transfers

Containment is required:

- During all fluid transfers at all connection points
- From the beginning of hook-up through disconnection
- Under each nozzle used for filling operations
- Not needed for hammer union type connections between two straight joints (use discretion).

Fluid Containers

Containment is required:

- Under all fluid containers (55 gal drums, totes, day fuel tanks, permanently installed tanks, etc.)
- If container is greater than 55 gallons and holds oil, containment must be able to hold:
  - 100% capacity of the largest container
  - plus adequate room for precipitation (recommended to be a minimum of 10% largest container volume)

CAUTION: Containment capacity and design for permanently installed tanks must be verified and approved by environmental prior to installation.

Equipment Off-Pad

- Maximum protection of tundra and surface waters is required.
- All equipment will use appropriate liners or drip pans under:
  - Radiator
  - Engine
  - Other areas with spill/leakage potential
- Surface drip pans and spill kits are required:
  - In all trucks entering the Alpine ice roads/pads,
  - In all vehicles stopping to do work on other ice roads,
  - Regardless of whether vehicles or equipment have attached or built-in containment.
- Place liners or drip pans IMMEDIATELY once the vehicle has been parked.
- Avoid overnight or long-term parking of vehicles and equipment whenever possible

For all light duty Alpine-based mobile equipment that may have an attached liner, a drip pan is still required if parked or stationary more than five minutes off gravel or at Kuukpik Pad.

Equipment On-Pad	• 100% containment is required for portable equipment kept stationary (running or not) for 90 days or more
	  • Built in containment may be adequate, or
	  • Constructed containment extending beyond the wheels.
	• Large pieces of equipment with a history of leaks and long periods of storage must be staged on large sheets of liner in designated areas (ex. CTU's, E-Line, rigs, cranes, rolligons, staged ice road equipment, etc.).
	  **All Alpine-based mobile equipment parked, or stationary shall have a liner tied underneath or have a drip pan.**
	  **Kuukpik Pad – Surface drip pans/duck ponds are required under all vehicles and equipment when parked even if it has attached or built in containment.**

Individual operating areas, companies or functional groups may have further liner use requirements in addition to those outlined above.

Examples of Appropriate Containment Sizes

Liner Size	Description	Equipment
17" x 19”	liner is approximately 3" deep and is designed to hold one 18"x 18" sorbent pad	Fuel truck for fuelingvehicles
		Line connections (Fracwork)
36" x 36" (Holds 22 gallons)	liner is approximately 4 inchesdeep and is designed to hold the larger 36” square inchsorbent pads.	Light plants
		Small Generator that has built-in liner
		Pickup Trucks/Kubota
48"x 48" (Holds 60 gallons)	liner is approximately 6" deep, has cleats and sandbags to holdliner in place, and a corrugated mat inside for operator safety	Crane
		Large Generator that already has built-in liner
		Tractors
		Loaders
		Tioga heaters that alreadyhave built-in containment
		Super suckers
		Vacuum trucks
		Welding machines
		55-gallon drums
Bigger than 48”x48”	If larger sizes are needed, they may be temporarily constructed on site by using timbers and/ or liner fabric or other suitable materials which are impervious to the liquids required to be contained	Well Work Units
		Ground thaw units, compressors, and triplex pumps staged for long periods
		Maxi Heater Units without built-in containment
		Oil Containers that hold more than 55-gallons
	Design and capacity approved and verified by Environmental prior to installation	Permanently installed tanks

The above-mentioned sizes are available at the Alpine and Kuparuk warehouses.

Please contact your Material Specialist for ordering.