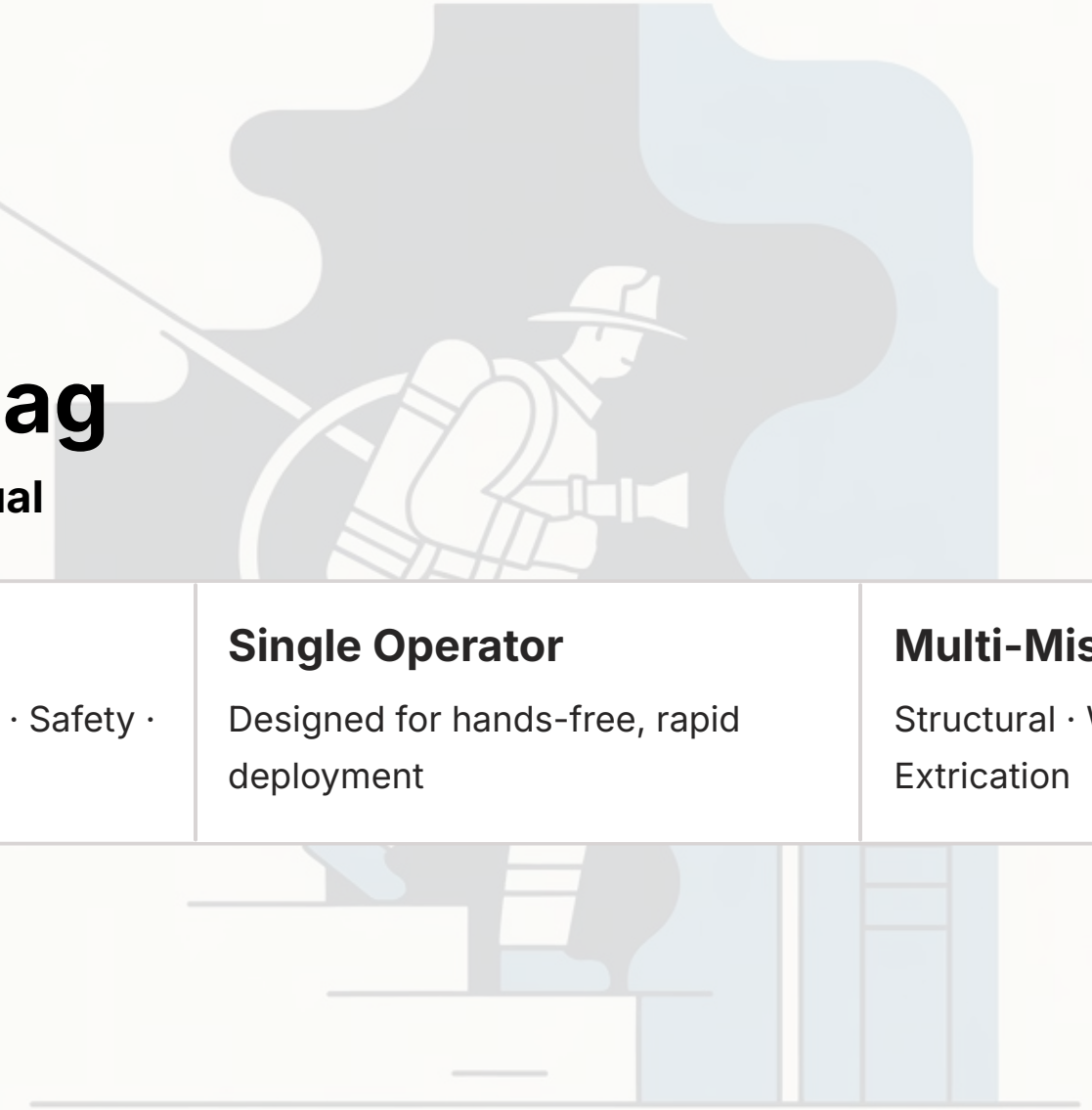
OPERATIONAL REFERENCE

Hose Roll Bag

Field Operations Manual



5 Sections	Single Operator	Multi-Mission
Mission · Equipment · SOP · Safety · Sustainment	Designed for hands-free, rapid deployment	Structural · Wildland · SAR · Extrication

SECTION 1

Mission Brief & Intended Use

1.1 Primary Mission

To provide a **secure, organized, and rapidly deployable** transport system for fire hoses, hydraulic lines, or rope systems, enabling a single operator to efficiently move equipment to an objective.

1.2 Secondary Mission

To **protect hose jackets, ropes, and hydraulic lines** from abrasion, friction damage, and environmental contaminants during transport and staging.

1.3 Authorized Use Cases

- **Structural Firefighting:** Attack or supply lines (1.5", 2.5") up stairwells or over extended distances from apparatus.
- **Wildland Firefighting:** Deploying forestry hose in challenging terrain.
- **Vehicle Extrication:** Managing heavy hydraulic lines for extrication tools, protected from sharp debris.
- **Search & Rescue (SAR):** Carrying coiled rope, taglines, or long lead lines for technical rescue.
- **Industrial / Facility Response:** Staging and deploying pre-connected hoses for industrial fire brigades.

SECTION 2

Equipment & Component Familiarization

All components work as an **integrated system** for load carriage and rapid deployment.

22 oz. Vinyl Body

Primary containment structure. Houses the coiled line, protects it from moisture and abrasion, and provides a **low-friction surface for snag-free deployment.** The 22" × 22" dimensions accommodate standard hose coils without requiring specialized folding techniques.

Open-Top Design

The loading and deployment interface. Wide aperture allows a properly coiled hose to be placed inside quickly and allows the hose to **pay out with minimal resistance or kinking** when the coupling is pulled.

Adjustable Shoulder Strap

Enables **single-person, hands-free carry.** Adjustable to fit over bunker gear or other PPE. Proper adjustment ensures the load is stable during dynamic movement — climbing stairs, navigating obstacles.

Underslung Strap Configuration

The shoulder strap is routed **underneath the bag body** — a critical design feature. It directly supports the full weight of the hose, transferring load through the strap webbing rather than through seams, **preventing catastrophic seam failure** under heavy, wet loads.

SECTION 3

Standard Operating Procedure: Deployment

Operational Scenario: A fire on the fourth floor of a commercial structure. The engine's pre-connected attack line will not reach. A crew member must transport 150 ft. of 1.5" hose from apparatus to the third-floor standpipe, navigating two flights of stairs. **Hands must remain free** for a forcible entry tool and balance.

1 2 3

Phase 1

Loading & Pre-Staging

Phase 2

Transport to Objective

Phase 3

Deployment at Objective

SECTION 3 · PHASE 1

Loading & Pre-Staging

1

Inspect Bag

Conduct a visual and tactile inspection. Confirm the strap, stitching, and vinyl body are **free of tears or defects.**

2

Inspect Hose / Line

Ensure the hose is clean, dry (unless immediately redeploying), and undamaged. **Do not load frozen hose** — it will impede deployment.

3

Coil Hose

Tightly coil the hose into a circular roll fitting within the 22" × 22" footprint. A **standard donut roll** is effective.

4

Load System

Place coiled hose flat into the bag. Position the **male coupling at the top opening** for immediate access during deployment.

5

Stage for Use

Place the loaded bag in its **designated apparatus compartment** for immediate access.

SECTION 3 · PHASES 2 & 3

Transport & Deployment

Phase 2 — Transport to Objective

1. **Don the Bag:** Place strap over shoulder or across body. Adjust so the bag rests at the hip or back, minimizing swing during movement.

2. **Confirm Hands-Free Status:** With load secured, confirm both hands are free for tools, handrails, or victim management.

3. **Navigate Terrain:** Proceed to objective. The bag allows movement through doorways and stairwells without snagging or premature uncoiling.

Phase 3 — Deployment at Objective

1. **Position for Deployment:** Place the bag flat on the ground at the desired deployment point (e.g., behind the entry door, at the standpipe connection).

2. **Access Coupling:** Grasp the exposed male coupling.

3. **Execute Payout:** Walk directly away from the bag. The hose will pay out smoothly from the open top. **Do NOT shake or dump** contents — this introduces kinks and defeats the organized coil.

⚠️ SECTION 4

Critical Warnings, Limits & Safety

⚖️ Maximum Load Capacity

Do not exceed designed capacity: **approx. 100 ft. of 2.5"/3" hose** or **200 ft. of 1.5" hose.** Over-stuffing causes deployment failure and places excessive stress on seams.

🏋️ Weight Hazard

A fully loaded bag can exceed **50–70 lbs.** Use proper lifting techniques. This bag is for **uncharged hose only** — carrying charged lines is unsafe and not recommended.

🛤️ Deployment Path

The operator is responsible for ensuring the **payout path is clear of obstructions** that could snag the hose, regardless of bag effectiveness.

🔍 Component Integrity

A damaged strap or compromised stitching is a **critical failure point.** Any damage found during inspection requires **immediate removal from service** until repaired or replaced.

☣️ Decontamination

The vinyl material can be decontaminated following HAZMAT exposure. Follow departmental and manufacturer guidelines. **Ensure the bag is fully dry** before returning to service.

SECTION 5

Readiness, Inspection & Sustainment

5.1 Post-Mission Inspection

- Empty the bag and inspect all interior and exterior surfaces for punctures, tears, or abrasion.
- Pay specific attention to **strap anchor points and all stitching.** Pull on the strap to check for signs of weakening.
- Inspect all hardware (buckles) for cracks or deformation.

5.3 Identification

Use a permanent marker or stencil to clearly label the bag with its contents.

"150' 1.5" ATTACK"	**"RESCUE ROPE"**

Accurate labeling ensures **rapid and correct equipment selection** during an incident.

5.2 Cleaning & Maintenance

01

Routine Cleaning: Brush off loose dirt and debris. Wipe down with mild soap and water. Rinse thoroughly.

02

Drying: Hang and air dry **completely** before reloading or storing. Storing wet promotes mold and mildew, degrading materials and contaminating the hose.

03

Storage: Store in a dedicated apparatus compartment, away from **direct UV light, extreme temperatures,** and corrosive chemicals.