

## **Opioid Settlement Funding Request – Hamilton-T1 Transport Ventilators**

Marion County Fire Rescue (MCFR)

Requested Amount: \$640,000

Funding Source: Florida Opioid Settlement Funds

### **1. Executive Summary**

Marion County Fire Rescue (MCFR) seeks \$640,000 in opioid settlement funds to purchase Hamilton-T1 Intelligent Transport Ventilators for frontline advanced life support (ALS) transport units. These ventilators will significantly enhance MCFR's capacity to manage acute respiratory failure resulting from opioid overdoses and other substance-related emergencies. This request aligns directly with approved uses outlined in the Opioid Abatement Strategies (Schedule B), particularly in the areas of strengthening emergency medical response, supporting treatment and recovery, and preventing overdose fatalities.

### **2. Project Description**

The Hamilton-T1 is a state-of-the-art transport ventilator capable of delivering advanced, ICU-quality ventilation in the prehospital environment. These devices are critical in opioid-related emergencies, where respiratory depression and arrest are primary causes of morbidity and mortality.

Key capabilities include:

- Advanced modes for invasive and non-invasive ventilation
- Integrated monitoring of oxygenation and ventilation parameters
- Compatibility with both adult and pediatric patients
- Lightweight, rugged design for EMS deployment

The purchase will equip all MCFR frontline transport ALS units, ensuring countywide coverage for opioid-related respiratory emergencies.

### **3. Alignment with Approved Uses**

This project aligns with multiple provisions of the Florida Opioid Abatement Strategies (Schedule B):

- J./3: Invest in infrastructure to prevent overdoses, treat OUD, and address co-occurring conditions.
- K./2: Support infrastructure and staffing for collaborative, cross-system overdose prevention and treatment.
- I./1: Educate first responders on appropriate practices for fentanyl and other potent opioids.

### **4. Operational & Community Benefit**

Opioid overdoses remain a significant challenge in Marion County, with EMS regularly responding to calls involving respiratory depression or arrest. Rapid, effective ventilation is

critical to survival and neurological recovery.

Benefits of deployment include:

- Increased survival rates for opioid-induced respiratory arrest.
- Reduced incidence of hypoxic brain injury.
- Enhanced ability to support prolonged resuscitation during transport.
- Improved patient outcomes through precise ventilation management.

## 5. Training & Implementation Plan

Phase 1: Procurement and installation of Hamilton-T1 ventilators on all designated transport units.

Phase 2: Training for all ALS providers, integrated into MCFR's existing EMS training program, including:

- Opioid-specific ventilation strategies
- Safe handling procedures for fentanyl exposure
- Integration into overdose resuscitation protocols

Phase 3: Ongoing quality assurance monitoring through MCFR's QA/QI program.

## 6. Budget

| Item                                                   | Quantity | Unit Cost | Total        |
|--------------------------------------------------------|----------|-----------|--------------|
| Hamilton-T1 Ventilator (configured for EMS)            | 40       | \$16,500  | \$660,000    |
| Mounting hardware & accessories                        | 40sets   | Included  | Included     |
| Initial training program (instructor hours, materials) | 1        | Included  | Included     |
| Trade-in (AutoVents)                                   | 40       | \$500     | -( \$20,000) |
| Total Requested                                        | -        | -         | \$640,000    |

## 7. Sustainability Plan

Ongoing maintenance, calibration, and replacement will be integrated into MCFR's existing EMS equipment lifecycle program, funded through operational budget and grant opportunities. Training will be maintained through annual competency checks and recertification.

## **8. Performance Measures**

MCFR will track and report the following metrics to demonstrate the impact of this investment:

- Number of opioid-related respiratory arrests treated with transport ventilators.
- Survival-to-hospital-admission rates for opioid-induced arrests.
- Incidence of hypoxic brain injury among overdose patients receiving ventilator support.
- Provider compliance with ventilation protocols in overdose cases.