



# QUICK START GUIDE SAM (GENERATION 2) TABLET ADDENDUM



BY

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## NOTICE

THIS GUIDE IS INTENDED FOR QUICK REFERENCE ONLY. DO NOT USE IT TO REPLACE REQUIRED TRAINING, STANDARD OPERATING GUIDELINES REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE OPERATION INSTALLATION MAINTENANCE MANUAL, OR APPROPRIATE QUALIFICATIONS.





## 1. SAFETY

Firefighting is an inherently risky activity. Knowledge and training may manage that risk. This document is not a training manual and does not provide all detailed operation. This guide serves as a quick reference for SAM operation. AHJ (Authority Having Jurisdiction) shall provide training and guidelines for system operation.

### 1.1 DANGERS, WARNINGS, CAUTIONS, and NOTICES

DANGERS, WARNINGS, CAUTIONS, and NOTICES consist of two parts: a heading (that identifies possible result if disregarded) and a statement of the hazard (that provides the minimum precautions). The following warnings and cautions are used throughout the Hale SAM manuals.

#### ATTENTION ▲ DANGER

INDICATES A HAZARDOUS SITUATION, WHICH IF NOT AVOIDED WILL RESULT IN SERIOUS INJURY OR DEATH.

#### ATTENTION ▲ WARNING

INDICATES A HAZARDOUS SITUATION, WHICH IF NOT AVOIDED COULD RESULT IN SERIOUS INJURY OR DEATH.

#### ATTENTION ▲ CAUTION

INDICATES A POTENTIALLY HAZARDOUS SITUATION, WHICH IF NOT AVOIDED MAY RESULT IN MINOR OR MODERATE INJURY.

#### IMPORTANT ▲ NOTICE

ADDRESSES PRACTICES NOT RELATED TO PERSONAL INJURY.

### 1.2 SAM General DANGER, WARNING And NOTICES

#### ATTENTION ▲ DANGER

FAILURE TO FOLLOW THE AHJ STANDARD OPERATING GUIDELINES MAY RESULT IN THE TABLET NO LONGER BEING ABLE TO CONTROL THE APPARATUS/DISCHARGES/INTAKES/PUMP.

#### ATTENTION ▲ WARNING

A COMMUNICATIONS INTERRUPTION TO THE TABLET WHEN THE OPERATOR IS AWAY FROM THE PUMPS OPERATOR PANEL MAY PRESENT A RISK. THE AHJ SHALL PROVIDE GUIDANCE AND TRAINING TO MINIMIZE THAT RISK.

#### ATTENTION ▲ WARNING

THE PUMP OPERATOR MUST USE THE TABLET ONLY WITHIN THE AHJ STANDARD OPERATING GUIDELINES. WHILE THE SAM TABLET CAN ALLOW THE PUMP OPERATOR MOBILITY, THE TABLET CAN NOT TAKE THE PLACE OF THE PUMPS OPERATOR PANEL.

#### ATTENTION ▲ WARNING

THE TABLET DOCKING STATION IS NOT RATED FOR CAB MOUNTING WITHOUT SUPPLEMENTAL RESTRAINTS. (RESTRAINTS ARE PROVIDED BY OEM/INSTALLER TO MEET NFPA STANDARDS.) UTILIZE RESTRAINTS AS REQUIRED BY: AUTHORITY HAVING JURISDICTION, OEM INSTRUCTIONS, AND/OR NFPA REQUIREMENT.

#### IMPORTANT ▲ NOTICE

IF THE TABLET BATTERY FALLS BELOW 10%, RETURN TO A SAM CONTROL CENTER ON THE APPARATUS IMMEDIATELY.

#### IMPORTANT ▲ NOTICE

IF THE TABLET-TO-SAM WI-FI CONNECTION IS LOST, RETURN TO A SAM CONTROL CENTER ON THE APPARATUS IMMEDIATELY TO CONTROL THE SYSTEM.

#### IMPORTANT ▲ NOTICE

AHJ MUST INSURE PROPER TRAINING IS IN PLACE FOR ALL OPERATORS. THIS QUICK START GUIDE DOES NOT REPLACE OR SUPERSEDE THE OPERATION INSTALLATION MAINTENANCE MANUAL OR PROPER TRAINING.



**IMPORTANT ▲ NOTICE**

KEEP ALL I/O PORT COVERS IN PLACE DURING USE TO PREVENT WATER DAMAGE.

**IMPORTANT ▲ NOTICE**

ONCE IDLE IS ACTIVATED, THE TABLET CAN NOT BE USED UNTIL THE OPERATOR RETURNS TO THE APPARATUS AND ENABLES AUTO MODE.

**IMPORTANT ▲ NOTICE**

ONLY TOUCH THE SCREEN IN ONE PLACE AT A TIME. THE TOUCHSCREEN DOES NOT SUPPORT MULTI-TOUCH.

**IMPORTANT ▲ NOTICE**

THE TABLET TAKES TIME TO START UP. DO NOT TOUCH THE TABLETS SCREEN DURING START UP.

**IMPORTANT ▲ NOTICE**

WHILE SAM CAN REDUCE PUMP OPERATOR WORKLOAD, IT DOES NOT TAKE THE PLACE OF THE PUMP OPERATOR. THE PUMP OPERATOR STILL NEEDS TO CALCULATE THE REQUIRED LINE PRESSURE TO SUPPORT THE HOSE LAY AND NOZZLE IN USE. SAM WILL MAINTAIN THE SET PRESSURE IN AUTO MODE.

## 2. RANGE

Limit tablet use to the immediate vicinity of the apparatus for safety. While the tablet allows SAM operation up to 100 feet (30.5 m), many factors affect the range of the secure radio signal.

## 3. CHARGING THE TABLET

New Li-ion batteries work best if fully charged and then drained for the first three [3] charging cycles. So, after each of the three initial charges, use the device until the battery % indicator shows 6%. After initial charging a standard battery typically lasts up to 9 hours and fully charges in two [2] to three [3] hours.

**IMPORTANT ▲ NOTICE**

IF THE TABLET BATTERY FALLS BELOW 10%, RETURN TO A SAM CONTROL CENTER ON THE APPARATUS IMMEDIATELY.

## 4. TURNING THE TABLET ON

**ATTENTION ▲ WARNING**


THE TABLET DOCKING STATION IS NOT RATED FOR CAB MOUNTING WITHOUT SUPPLEMENTAL RESTRAINTS. (RESTRAINTS ARE PROVIDED BY OEM/INSTALLER TO MEET NFPA STANDARDS.) UTILIZE RESTRAINTS AS REQUIRED BY: AUTHORITY HAVING JURISDICTION, OEM INSTRUCTIONS, AND/OR NFPA REQUIREMENT.

The SAM tablet is located in the docking station. (The location of the docking station varies, see OEM documentation.)

**IMPORTANT ▲ NOTICE**

LEAVE THE TABLET TURNED ON IN THE DOCKING STATION TO CHARGE WHEN NOT IN USE. THE TABLET TAKES TIME TO START UP. DO NOT TOUCH THE TABLETS SCREEN DURING START UP.

Perform the following to power on/startup the tablet when needed.

- A. Ensure tablet is charged.
- B. Press  for 1 second and release.
- C. Wait for **PRESS + TO UNLOCK** banner to display.

## 5. SAM TABLET USER INTERFACE

The SAM tablet user interface (Figure 1, Left) provides the operator remote control of the water supply and discharge ONLY with SAM in AUTO mode. Manual mode is NOT provided on the tablet. The display is similar to the SAM Control Center (Figure 1, Right) however differs in that the screen is initially locked (requiring operator action for access) and the Emergency Idle button is provided as a soft button (displayed on the screen). Use of the tablet IDLE button is available even if the screen locked. The tablet user interface can also be operated with a gloved hand.

**IMPORTANT NOTICE**

**ONLY TOUCH THE SCREEN IN ONE PLACE AT A TIME. THE TOUCHSCREEN DOES NOT SUPPORT MULTI-TOUCH.**



Figure 1. Tablet Touch Screen (Left) SAM Control Center (Right)

### 5.1 Emergency IDLE Activation (From A Locked Screen)

**IMPORTANT NOTICE**

**ONCE IDLE IS ACTIVATED, THE TABLET CAN NOT BE USED UNTIL THE OPERATOR RETURNS TO THE APPARATUS AND ENABLES AUTO MODE.**

If the tablet screen is locked and activation of an emergency IDLE is required: touch the IDLE button (see Figure 2).



Figure 2. Emergency IDLE Activation (From A Locked Screen)

Then drag the IDLE button to the target and lift finger off the screen. See Figure 3.



**Figure 3. Slide IDLE Button To Target (From A Locked Screen)**

A popup confirmation is displayed (prevents inadvertent activation, see Figure 4). Touch the YES button.



**Figure 4. Emergency IDLE Activation (Popup Confirmation)**

Once IDLE is activated, the SAM system is placed in Governor Off mode, the tablet user interface is unavailable (until SAM Auto mode is reestablished from a SAM Control Center on the apparatus.), and the tablet screen displays a notice and instructions (see Figure 5).



**Figure 5. Emergency IDLE Activated Screen**

Return to the operator panel (specifically the collocated SAM Control Center and the Pump Controller Touch Screen location) immediately, for any additional operations.

## 5.2 Unlocking The Tablet Display

To utilize the tablet to operate SAM under normal remote operating conditions (SAM Auto mode), the screen must be unlocked. At the top of the tablet press the **+** button (the right most of the three buttons located side-by-side on top of the tablet, see Figure 6).



Figure 6. Press **+** Button To Unlock The Tablet

The SLIDE TO UNLOCK popup (Figure 7) will appear.



Figure 7. Unlock Screen Popup

Touch and drag the popup button to the popup target. (See Figure 8.)



Figure 8. Unlock Screen Popup Button And Target

The tablet interface now functions the same as the SAM Control Center. For further quick start information reference the main body of the Quick Start Guide (FSG-MNL-00209) or for detailed operation reference the Operation Installation Maintenance Manual For Hale SAM (Generation 2) (FSG-MNL-00210).

### 5.3 Additional Tablet Indicators (% Battery And Signal Strength)

The pump operator should constantly be aware of the % battery and wi-fi signal strength indicators (Figure 9).



Figure 9. % Battery And Wi-Fi Signal Strength Indicators

### 5.4 Loosing Wi-Fi Signal

If the wi-fi signal strength falls to a critical level, the tablet displays a warning. (See Figure 10.)



Figure 10. Wi-Fi Signal Strength Warning Example

Touch CONFIRM to dismiss the popup.

**IMPORTANT NOTICE**

**IF THE TABLET-TO-SAM WI-FI CONNECTION IS LOST, RETURN TO A SAM CONTROL CENTER ON THE APPARATUS IMMEDIATELY TO CONTROL THE SYSTEM.**



## 6. MANUAL OPERATION

The tablet can NOT operate the SAM system in Manual mode. If Manual mode is required, the operator must return to a SAM Control Center, to operate the SAM system manually.

## 7. TABLET SHUTDOWN AND DOCKING

### IMPORTANT NOTICE

**DO NOT HARD SHUTDOWN THE TABLET (POWER OFF BY HOLDING THE POWER BUTTON FOR LONGER THAN 3 SECONDS). A HARD SHUTDOWN MAY CORRUPT THE OPERATING SYSTEM, MAKING THE TABLET UNUSABLE.**

The tablet requires a software shutdown/power off. Perform the following to shutdown/power off the tablet.

- A. Touch System Options icon (touch and hold icon if required). System options buttons are displayed (see Figure 11).

### NOTE

If the Loading Icon (🔄) is displayed when the System Options button (☰) is touched, hold the System Options button until the Loading Icon completes the circle and the system options are displayed.



Figure 11. System Options Buttons

- B. Touch SHUT DOWN button. (See Figure 11.)
- C. At arrow on shutdown screen, touch screen. (See Figure 12.)
- D. Drag finger to bottom of screen. (See Figure 12.)
- E. Lift finger off screen.



Figure 12. Shutdown Screens

F. On confirmation pop up, touch YES. (See Figure 13.)



Figure 13. Shutdown Confirmation

G. Wait for tablet to turn off (screen goes dark).