

SYSTEM TEST PLAN FOR *ASOS SOFTWARE V2.79X*

Presented to
ASOS Test Review Board

NWS/OPS24
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A stylized silhouette of a mountain range in shades of teal, located in the bottom right corner of the slide.

ASOS SOFTWARE VERSION 2.79X

System Test Overview

- ◆ Test Objectives
- ◆ Test Requirements
- ◆ Test Methodology
- ◆ Test Schedule

ASOS SOFTWARE VERSION 2.79X LOAD CONTENTS

- ◆ Contains fixes found in 2.79S, 2.79T, 2.79U, 2.79V
- ◆ New Fix for “Infinite Loop” during “TEST” Command on ASOS MAINT Page for IFW Sensor STATUS using IFW Sensor V4.54 Firmware

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System Test Objectives

- ◆ Ensure ASOS remains stable and supports all existing sensors
- ◆ All existing ASOS functions, except the ones to be modified or corrected, remain available and operational
- ◆ Verify all fixes since V2.79S Intact

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System Test Requirements

- ◆ Based on Approved System Test Plan for V2.79S (Sept. 2008)
- ◆ FAT successfully conducted
- ◆ ASOS Test Beds base-lined and operational

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ASOS Test Beds

- ◆ SFSC ST1, Sterling, VA
- ◆ SFSC SCA, Sterling, VA
- ◆ SPAWARSCEN GOLD, Charleston, SC ?
- ◆ NWSTC, Kansas City, MO ?

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System Test Personnel

Name	Function	Telephone
Khien Nguyen (OPS24)	Test Director, Primary	301-713-0326 x177
Joseph Fiore (OPS24)	Test Director, Alternate	301-713-0326 x119
Richard Parry (OPS22)	Data Analyst	301-713-0293 x 109
Chet Schmitt (OPS22)	Data Analyst	301-763-8000 x 7519
Jennifer Dover (OPS22)	Test team member (SFSC coordinator)	703-661-1259
Dave Eckberg (SAIC)	Test team member (Electronics technician)	703-661-1288
Brian Rice (SAIC)	Test team member	703-661-1259
Robert Retzlaff (NWSTC)	NWSTC	816-880-9368
Wayne Knight (U.S. Navy)	Test team member	843-218-4818

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System Test Methodology

- ◆ “Base Line” Test Systems
- ◆ Software Installation
- ◆ 72-Hours System Stability Test
- ◆ Validate 11 fixes for 8 TTRs associated with V2.79S, T, U, V, and X
- ◆ 30 Regression Tests
 - Routine ASOS functions
 - ASOS Interfaces: OID/VDU, Navy ATC, ACE
- ◆ Verify WSP and ADAS/ALDARS Outputs

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System Test Configurations

- ◆ On ST1
 - **CT12K** as Lone ceilometer Sensor + Others
 - IFW with 4.54 Firmware/ Good & Bad Sensors
- ◆ On ST1
 - **CL31** as Lone ceilometer Sensor + Others
 - IFW with 4.54 Firmware/ Good & Bad Sensors
- ◆ On SCA
 - **CL31** as Lone ceilometer Sensor + Others
 - IFW with 4.54 Firmware/ Good & Bad Sensors

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System Test Schedule

Dates	Duration	Action
Day 1	1 day	ST kick-off meeting
Day 2	1 day	Install V2.79X At SFSC, NWSTC, and Charleston Naval Shipyard, NC
Day 3 - Day 14	12 days	ST Mainly at SFSC
Day 15 - Day 17	3 days	Investigate ST problems (if necessary)
Day 18 - Day 19	2 days	Retest (if necessary)
Day 20	1 day	Wrap-up meeting
Day 21 - Day 42	20 days	Prepare ST test report