

ASOS Site Component Commissioning
Evaluation Package
For NWS Use

July 1996 (updated January 2007)

Site ID (SID):

Ownership:

Location Name:

FAA Service Level:

Associated WFO:

NWS Region:

Approving Official:

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Office of Systems Operations

NWS ASOS SITE COMPONENT COMMISSIONING REPORT FORM (DAA APPROVAL)

1. Site ID (SID):	2. Location (Name, State, NWS Region):
3. No. ASOS Displays: OIDs VDUs ACE Other	
4. ASOS Site Component Configuration: TOWERED [] HOURS OF OPERATION [] OBSERVING STAFF [] HOURS OF OPERATION [] FAA Service Level [] OTHER:	5. Operational Requirements: Software Version Backup Sensors Met. Disc. Sensors Freezing Rain GTA Radio Freq. ATIS / Digital ATIS Backup Augmentation RVR / NGRVR ACE / IDS ALDARS ADAS / FTI
6. Start of Evaluation : _____ Completion of Evaluation : _____	
7. Evaluation Official (Name, Title, Phone Number):	
8. Evaluation Official Signature: _____ Date: _____	

RECOMMENDATION FOR COMMISSIONING

We, the undersigned, recommend this ASOS Site Component be commissioned for official use.

Meteorologist-in-Charge

9. Meteorologist-in-Charge Name: _____

10. Signature: _____ Date: _____

Regional Director

11. Regional Director Name: _____

12. Signature: _____ Date: _____

NWS Commissioning Manager

13. NWS Commissioning Manager Name: _____

14. Signature: _____ Date: _____

NWS ASOS SITE COMPONENT COMMISSIONING REPORT (cont.)

APPROVAL OF COMMISSIONING

As Deputy Assistant Administrator for Meteorological Services (DAA), I approve the commissioning of this ASOS Site Component for official use.

15. DAA Name: _____

16. Signature: _____ Date: _____

IMPLEMENTATION OF COMMISSIONING APPROVAL

As NWS Commissioning Manager, I verify that this Site Component was commissioned on the date indicated below.

17. NWS Commissioning Manager Name: _____

18. NWS Commissioning Manager Signature: _____

19. Date of Signature: _____

20. Date of Site Component Commissioning: _____

Enter SID:

Attachment 2

NWS ASOS SITE COMPONENT COMMISSIONING CHECKLIST			
Station ID (SID): Location Name/State:			
S=Satisfactory, N/A=Not-Applicable, W/#=Work-Around Number (1,2,3...).			
Document significant Not-Applicable Ratings and all Work-Arounds under Remarks.			
EVALUATION ELEMENT	S	N/A	W/#
1. ON-SITE ACCEPT/SENSOR SITING/INITIAL.			
1a. On-site Acceptance			
1b. Sensor Siting			
1c. Initialization Parameters			
1d. Sensor Performance Verification			
1e. Field Modification Kits Installed			
2. ADEQUATE OPERATIONAL AND MAINTENANCE DOCUMENTATION			
2a. Operator Documentation			
2b. User Documentation			
2c. Weather Observing Documentation			
2d. Maintenance Manuals			
2e. Maintenance Phone Number			
2f. A-1 and A-3 Forms			
2g. Dial-in Phone Numbers			
2h. Station Duty Manual			
2i. User Notification/Technical Coordination			
3. ADEQUATE AVAILABILITY OF PROPERLY TRAINED OPERATIONS PERSONNEL			
3a. Operator Training Materials			
3b. Operator Familiarization Training			
3c. Operator Proficiency Training			
3d. Forecaster Familiarization			
4. ADEQUATE MAINTENANCE CAPABILITY			
4a. Support Arrangements			
4b. Maintenance Capability			
4c. Maintenance Access/Information			
4d. Physical Security			
4e. Safety			

Enter SID:

NWS ASOS SITE COMPONENT COMMISSIONING CHECKLIST

Station ID (SID): Location Name/State:

EVALUATION ELEMENT	S	N/A	W/#
5. SATISFACTORY PERFORMANCE OF SITE INTERFACES			
5a1. Operator Interface Device (OID)			
5a2. Video Display Unit (VDU)			
5a3. Tower Interface Complete			
5a4. Observer Notification Device (OND)			
5a5. Printer			
5b1. ACU Port #1: AFOS/AWIPS Phone (dial-out to AFOS)			
5b2. ACU Port #2: AFOS/AWIPS Hardwire			
5b3. ACU Ports #8a, #8b: Telephone Dial-in Access			
5b4. ACU Port #5b: Computer Synthesized Voice			
5b5. ACU Port #6: FAA ADAS/FTI Interface			
5b6. GTA Radio Interface			
6. SATISFACTORY SUPPORT OF ASSOCIATED NWS FORECASTING AND WARNING SERVICES			
6a. 1-MINUTE Display and Messages			
6b. TA/TP/TS/TEST/TESTS Messages			
6c. SHEF Messages			
6d. Climate Summary Data			
6e. Representative Observations			
7. PROPER FUNCTIONING OF SERVICE BACKUP CAPABILITIES			
7a. Backup Procedures			
7b. Backup Equipment			
7c. Backup Personnel Resources			
7d. Backup Observer Proficiency			
7e. Backup Communications (N/A with FTI)			
7f. Terminating SAWRS Agreement			
7g. Unstaffed Site Quality Control Responsibilities: (Identify WSFO here:_____)			
8. PROPER FUNCTIONING OF AUGMENTATION CAPABILITIES			
8a. Augmentation Procedures			
8b. Augmentation Personnel Resources			
8c. Augmentation Observer Proficiency			

REMARKS: Check ____ if additional remarks are entered on continuation pages.

CONTINUATION SHEET

Attachment 3a

FIELD MODIFICATION KITS REQUIRED FOR COMMISSIONING

For details on ASOS MOD NOTES please see the following web page:

<https://www.ops1.nws.noaa.gov/Secure/asos/Mods.htm>

(See attached Mod Note Summary)



NOAA's National Weather Service ASOS Modification Notes

weather.gov



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#	Modification Note Title	File
85	ASOS Ice Free Wind (IFW) Sensor Firmware Update	PDF
84	ASOS Ott All Weather Precipitation Gauge (AWPAG) Connector Correction Kit	PDF
83	ASOS Acquisition Control Unit External Fiber Optic Modem Installation	PDF
82	Connection of ASOS to the FAA FTI DDC Service	PDF
81	FIRMWARE Retrograde for ACU/SCA Processor Board (No Mod Note)	N/A
80D	FIRMWARE (V2.79C) Upgrade for ACU/SCA Processor Board	PDF
80C	FIRMWARE (V2.79B) Upgrade for ACU/SCA Processor Board	PDF
80B	FIRMWARE (V2.79A) Upgrade for ACU/SCA Processor Board	PDF
80A	FIRMWARE Upgrade for ACU/SCA Processor Board	PDF
79	ASOS Internet Connectivity	N/A
78B	All-Weather Precipitation Accumulation Gauge Installation, Revision B	PDF
77A	Ice-Free Wind Sensor Installation	PDF
76	410.5 MHz RF Filter Installation	PDF
75A	Installation of ASOS Dewpoint Sensor	PDF
74A	ACE-IDS Interface Port Assignment and Configuration	PDF
73D	Replacement ACU Processor Board, Revision E	PDF
72	ACU Memory Firmware 2.63	PDF
72-E1	Errata Sheet 1 - Correction to Mod 72	PDF
71	ASOS pSOS Firmware 1.82	PDF
70	Installing an AUX box & GTA radio to an SCA	PDF
69	Temp/Dewpoint Firmware A98/B98	N/A
68	Installing Visibility Firmware 040	PDF
68-E1	Errata Sheet 1 - Additional Steps to Mod 68, dated 04/05/00	PDF
67	Installation of a UPS in a Class I SCA	PDF
66	Installation of a UPS in a Class I DCP (42" wide)	PDF
66-E1	Errata Sheet 1 - Additional Sites to perform Mod 66	PDF
65	Installation of a UPS in a Class I DCP (30" wide)	PDF
65-E1	Errata Sheet 1 - Additional Sites to perform Mod 65	PDF
64	Installation of a UPS in a Class I ACU	PDF
64-E1	Errata Sheet 1 - Additional Sites to perform Mod 64	PDF
63	GTA Radio Installation into the ACU	PDF
62	Replacement DCP Circuit Breaker for Tipping Bucket	PDF
61	GTA Radio Removal and Return	PDF
60	ACU Memory Firmware 2.50	PDF
58	Return of OID Peripheral Equipment	PDF
57	SCA Temp Probe Board Relocation & Thermostat Replacement	PDF
57-E1	Errata Sheet 1 - Corrections to Mod 57, dated 04/23/98	PDF
56	Class II SCA Solid State Time Delay Relay & UPS Bypass Circuit	PDF
55	Class II DCP Solid State Time Delay Relay & UPS Bypass Circuit	PDF

54	Class II ACU Solid State Time Delay Relay & UPS Bypass Circuit	PDF
53	Class I SCA Solid State Time Delay Relay	PDF
52	Class I DCP Solid State Time Delay Relay	PDF
51	Class I ACU Solid State Time Delay Relay	PDF
50	Voice Processor Board Version 4.0	PDF
49	V.34 High Speed Modem (28,800 Baud)	PDF
49-E1	Errata Sheet 1 - Corrected port installation and addresses	PDF
48	Visibility Firmware 039	PDF
47	ACU Firmware 2.60	PDF
47-E1	Errata Sheet 1 - Corrections to Mod 47	PDF
47-E2	Errata Sheet 2 - Correction to Mod 47	PDF
45	Codex Modem Installation	PDF
45-E1	Errata Sheet 1 - Additional Sites to perform Mod 45	PDF
45-E2	Errata Sheet 2 - Additional Sites to perform Mod 45	PDF
45-E3	Errata Sheet 3 - Additional Sites to perform Mod 45	PDF
44	Thunderstorm Sensor Installation	PDF
42	Class I ACU UPS Installation	PDF
41	Line Filter for Wind Direction Assembly	PDF
40	Interface Connection and VDU Config for DATIS & SAIDS	PDF
40-E2	Errata Sheet 2 - Additional Sites for Table C	PDF
40-E4	Errata Sheet 4 - Additional Sites for Table D	PDF
38	ACU Firmware 2.49 & DCP Firmware 1.81	PDF
38-E1	Errata Sheet 1- Clarifications, including corrected part number	PDF
38-E2	Errata Sheet 2- Additional sites to perform Modification Note 38	PDF
37	Visibility Firmware 037 and Corssarm Cable Guides	PDF
36	Wind Sensor Firmware 4.0	PDF
35	Upgrade to the Tippiing Bucket and Wind Skirt	PDF
34	Freezing Rain Sensor Installation	PDF
33	ACU Firmware 2.40	PDF
33-E1	Errata Sheet 1 - Additional Information to Mod 33	PDF
32	Voice Processor Board Version 3.0	PDF
31	ACU Firmware 2.30	PDF
31-E1	Errata Sheet 1 - Additional Information to Mod 31	PDF
29	Wind Sensor 3K Ohm Resistor	PDF
28	Video Display Unit Installation	PDF
27	Reactivation of Hygrothermometer Auto Balance Module	PDF
24	Snow Radiation Shield	PDF

22	Wind Sensor Firmware 3.0	PDF
21	LEDWI Firmware 3.64	PDF
21-E1	Errata Sheet 1 - Additional Information for Mod 21	PDF
20	ACU Firmware 2.20	PDF
19	Wind Sensor Model 2 Transmitters	PDF
17	Hydrothermometer Fan Fail Circuit Deactivation	PDF
16	Hygrothermometer Autobalance Module Deactivation	PDF
16-E1	Errata Sheet 1 - Additional Information for Mod 16	PDF
15	Port Sharing Device Memory Board Installation	PDF
15-E1	Errata Sheet 1 - Additional Information for Mod 15	PDF
14	Voice Processor Board Version 2.0	PDF
13	Visibility EPROMs and Crossarm Cable Guide Installations	PDF
13-E1	Errata Sheet 1 - Additional Information for Mod 13	PDF
12	V.3225 Modem Installation (9600 Baud)	PDF
12-E1	Errata Sheet 1 - Additional Information for Mod 12	PDF
12-E2	Errata Sheet 2 - Additional Information for Mod 12	PDF
11	Freezing Rain Sensor Installation	PDF
10	ACU Firmware 2.1	PDF
10-E1	Errata Sheet 1 - Additional Information for Mod 10	PDF
09	Temp/Dewpoint Enclosure and Aspirator Replacement	PDF
08	Wind Sensor Firmware 2.07	PDF
07	ACU Firmware 2.0	PDF
06	Ceilmeter Circuit Breaker Replacement	PDF
05	LEDWI Firmware 2.61	PDF
04	ACU and DCP Replacement Battery Box Lid	PDF
03	Pressure Sensor Threshold Detector Installation	PDF
03-E1	Errata Sheet 1 - Additional Information for Mod 03	PDF
02	Tipping Bucket Cutoff Thermostat Installation	PDF
01	ACU Firmware 1.80	PDF

National Weather Service
Maintenance Logistics and Acquisition Division
Last Modified : January 17, 2007
Send feedback to: Shirley.Gunderson@noaa.gov
<http://www.ops1.nws.noaa.gov/asos/Mods.htm>

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Attachment 4

NWS ASOS SITE COMPONENT COMMISSIONING REPORT FORM (RD APPROVAL)	
1. Site ID (SID):	2. Location (Name, State, NWS Region):
3. No. ASOS Displays: OIDs VDUs ACE Other	
4. ASOS Site Component Configuration: TOWERED [] HOURS OF OPERATION [] OBSERVING STAFF [] HOURS OF OPERATION [] FAA Service Level [] OTHER:	5. Operational Requirements: Software Version Backup Sensors Met. Disc. Sensors Freezing Rain GTA Radio Freq. ATIS / Digital ATIS Backup Augmentation RVR / NGRVR ACE / IDS ALDARS ADAS / FTI
6. Start of Evaluation: Completion of Evaluation:	
7. Evaluation Official (Name, Title, Phone Number):	
8. Evaluation Official Signature: _____ Date:	
RECOMMENDATION FOR COMMISSIONING We, the undersigned, recommend this ASOS Site Component be commissioned for official use.	
Meteorologist-in-Charge 9. Meteorologist-in-Charge Name:	
10. Signature: _____ Date:	

NWS ASOS SITE COMPONENT COMMISSIONING REPORT (cont.)

APPROVAL OF COMMISSIONING

As Director, NWS _____ Region, I approve the commissioning of this ASOS Site Component for official use.

11. Regional Director: _____

12. Signature: _____ Date: _____

IMPLEMENTATION OF COMMISSIONING APPROVAL

As NWS Commissioning Manager, I verify that this Site Component was commissioned on the date indicated below.

13. NWS Commissioning Manager Name: _____

14. NWS Commissioning Manager Signature: _____

15. Date of Signature: _____

16. Date of Site Component Commissioning: _____