

ATO Air Traffic Services (ATS)

Contract Operations Group (AJT-21)

**Human Weather
Observer (HWO) SRM**
May 14, 2015



HWO SRM Panel Purpose

- Evaluate proposed changes to the Service Standards Policy to enable FAA to establish an HWO Resource Allocation methodology.
 - This proposed policy revision is intended to allocate augmentation and backup services at ASOS sites on the basis of adverse weather phenomena, traffic volume, and airport complexity; allowing the FAA to maintain safety.
 - If necessary, this panel will recommend additional risk mitigations to be implemented.

Previous SRM Panel

- July 2014 ASOS Service Standard Panel:
 - Confirmed locations where HWOs (NF-OBS, LAWRS Controller, Contract Weather Observer,) are required in the Continental US, Hawaii, and Alaska
 - Acknowledged NWS Removal of 4 Aviation Paid (A-PAIDs) Weather Observing Stations in Alaska
 - Closed as of September 30, 2014
- Alaska facilities were not considered for further changes under revised July 2014 ASOS Service Standards Policy

Why Change?

- For over twenty (20) years, LAWRS controllers have been providing human augmentation without degradation of service
- Many advancements in sensors, algorithms, and equipment have occurred since ASOS inception
- More weather information readily available to tower controllers, pilots/dispatchers, and airlines

Change How?

- The FAA has evaluated the Service Standards Report to identify what levels of adverse weather and airport complexity are currently being serviced by LAWRS controllers.
 - Analysis of Bad Weather Operations Score to identify under what levels of adverse weather/traffic existing LAWRS controllers are currently providing service.
 - Analysis of Airport Characteristics Score to identify what levels of airport complexity are currently serviced by LAWRS controllers

Change How?

- The FAA's analysis indicates that LAWRS controllers currently provide service at airports with:
 - A Bad Weather Operations Score of 4 or less, and
 - An Airport Characteristics Score of 11 or less.

But what about...?

- This panel will not evaluate sites based on the Service Standards' Alternate Airport Score.
 - The Alternate Airport Score is irrelevant to the FAA's determination of what type of weather observer to deploy at each site.
 - Pending approval of RTMA by Flight Standards will provide an alternate backup of temperature and dewpoint at all sites.

Projected Outcome

- Based on the above analysis, the FAA proposes the transition of up to 57 CWO's to LAWRS controllers using the 2014 Service Standards Report
- Currently, there are 136 CWO sites
 - Proposed Sites Gaining LAWRS Controllers 57 Sites
 - Proposed 2016 CWO Program 79 Sites
- ATO will reevaluate sites on an annual basis.
 - Implementation timeframe will be at least one year after evaluation, in order to give airports and carriers sufficient time to plan and adjust.

Training and Quality Assurance

- The FAA will ensure that LAWRS controllers are properly trained.
 - LAWRS training is expected to be completed within 4 months of process completion

Potential CWO to LAWRS Sites

LOCID	Airport	State	Site Type	Composite Score (0-43)	Bad Weather Operations Score (0-18)	Alternate Airport Score (0-5)	APCAT Score (0-18)
GEG	Spokane Intl	WA	ASOS	18	1	3	10
ROC	Greater Rochester Intl	NY	ASOS	17	4	1	8
SYR	Syracuse Hancock Intl	NY	ASOS	17	3	1	9
GRR	Gerald R Ford Intl	MI	ASOS	16	3	1	8
BIL	Billings Logan Intl	MT	ASOS	16	2	3	7
DSM	Des Moines Intl	IA	ASOS	16	2	1	9
BTV	Burlington Intl	VT	ASOS	15	3	1	7
COS	City Of Colorado Springs Muni	CO	ASOS	15	3	0	8
CAK	Akron-Canton Regional	OH	ASOS	14	3	0	7
MSN	Dane County Regional-Truax Field	WI	ASOS	14	2	0	8
ICT	Wichita Mid-Continent	KS	ASOS	14	1	2	11
DLH	Duluth Intl	MN	ASOS	13	2	0	7
OMA	Eppley Airfield	NE	ASOS	13	2	0	11
FSD	Joe Foss Field	SD	ASOS	13	2	1	6
MKG	Muskegon County	MI	ASOS	12	2	0	6
OKC	Will Rogers World	OK	ASOS	12	1	1	10
MDT	Harrisburg Intl	PA	ASOS	12	1	0	11
LIT	Adams Field	AR	ASOS	12	0	2	10
HSV	Huntsville Intl-Carl T Jones Field	AL	ASOS	12	0	3	9
CAE	Columbia Metropolitan	SC	ASOS	12	0	3	9

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SMF	Sacramento Intl	CA	ASOS	12	0	1	11
FAT	Fresno Yosemite Intl	CA	ASOS	12	0	2	10
SAN	San Diego Intl-Lindbergh Field	CA	ASOS	12	0	1	11
PTK	Oakland County Intl	MI	ASOS	11	4	0	7
RNO	Reno/Tahoe Intl	NV	ASOS	11	1	1	9
TUL	Tulsa Intl	OK	ASOS	11	0	1	10
ELP	El Paso Intl	TX	ASOS	11	0	4	7
SJU	Luis Munoz Marin Intl		ASOS	11	0	0	11
ALB	Albany Intl	NY	ASOS	10	1	1	8
YNG	Youngstown-Warren Regional	OH	ASOS	10	1	0	5
FWA	Fort Wayne Intl	IN	ASOS	10	1	1	8
PWM	Portland Intl Jetport	ME	ASOS	10	1	0	9
RFD	Greater Rockford	IL	ASOS	10	1	0	9
RIC	Richmond Intl	VA	ASOS	10	0	2	8
ROA	Roanoke Regional/Woodrum Field	VA	ASOS	10	0	2	8
BHM	Birmingham Intl	AL	ASOS	10	0	1	9
JAN	Jackson Intl	MS	ASOS	10	0	1	9
CHS	Charleston AFB/Intl	SC	ASOS	10	0	1	9
CRP	Corpus Christi Intl	TX	ASOS	10	0	1	9

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DAY	James M Cox Dayton Intl	OH	ASOS	9	1	0	8
ISP	Long Island Mac Arthur	NY	ASOS	9	1	1	7
CRW	Yeager	WV	ASOS	9	1	0	8
TYS	Mc Ghee Tyson	TN	ASOS	9	0	1	8
GSO	Piedmont Triad Intl	NC	ASOS	9	0	0	9
EUG	Mahlon Sweet Field	OR	ASOS	9	0	0	9
CHA	Lovell Field	TN	ASOS	9	0	1	8
SAV	Savannah Intl	GA	ASOS	9	0	1	8
DAB	Daytona Beach Intl	FL	ASOS	9	0	0	9
SJC	Norman Y. Mineta San Jose Intl	CA	ASOS	9	0	0	9
MHT	Manchester	NH	ASOS	8	1	0	7
BGR	Bangor Intl	ME	ASOS	8	1	0	7
LBB	Lubbock Intl	TX	ASOS	8	0	1	7
TRI	Tri-Cities Regional TN/VA	TN	ASOS	8	0	1	7
SHV	Shreveport Regional	LA	ASOS	8	0	0	8
MOB	Mobile Regional	AL	ASOS	8	0	0	8
TLH	Tallahassee Regional	FL	ASOS	8	0	0	8
AFW	Fort Worth Alliance	TX	ASOS	7	0	0	7