

Aviation Meteorological Forecaster Competency 1,2 and 4

Forecast Aeronautical Meteorological Phenomena and Parameters

Monitoring and amendment of TAFs AMF AC 1,2, 1.3 and 4.3

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AIM OF THIS PRESENTATION

Before starting this practical AMF task presentation, review the following theory presentations:

RTC-PRE-010 AMF AC 2.1.1 2.1.2 2.1.4 2.1.5 2.1.6 2.2 1.2 1.3 Forecast Weather Parameters and Phenomena **TREND** and TAF

At the end of this presentation, you will be able to:

- Continuously monitor submitted TAFs and amend if necessary to demonstrate competency in **AMF AC 1.2, 1.3 and 4.3**
- Complete weekly quizzes related to the amendment of TAFs using this presentation as an example.



Introduction

Example Task for Case Study 20 Oct 2018:

Continuously monitor (AMF AC 1.2) the weather situation (hourly METARs will be provided) and evaluate whether any amended TAFs need to be issued

In this case your TAFS valid for 12Z have been issued/submitted at 10Z to clients.

You now have to continuously monitor the weather situation and amend your issued TAFs if necessary. Use the significant weather criteria to decide if an amendment is necessary.

- METAR FAOR 201200Z 14011KT 110V190 9999 -TSRA SCT025CB FEW040CB 20/13 Q1024 NOSIG=
- METAR FAKN 201200Z 16006KT 9000 -DZ BKN008 OVC015 15/12 Q1026 NOSIG=
- METAR FALE 201200Z 17020G30KT 9999 FEW018 BKN021 BKN035TCU 19/13 Q1027 NOSIG=



Monitoring (AMF AC 1.2) of TAF FAOR at 12Z

Submitted TAF

TAF FAOR 201000Z 2012/2118 **09013KT 9999 BKN040 FEW040CB**

TX24/2012Z TN11/2103Z

TEMPO 2012/2019 **2500 TSRA** SCT035CB

BECMG 2018/2020 BKN015

PROB30 TEMPO 2023/2106 3000 BR BKN008

BECMG 2107/2109 SCT040=

Monitoring starts once the TAF becomes valid.

At 12Z, when you receive the METAR, compare each corresponding group of the METAR (wind speed and direction, visibility, weather and cloud at 12Z) to that in the TAF which is valid for 12Z

Monitoring of real time data

METAR FAOR 201200Z **14011KT 110V190 9999 -**

TSRA SCT025CB FEW040CB 20/13 Q1024

NOSIG=

<u>METAR</u>	<u>TAF</u>	<u>Amend?</u> <u>(yes or No)</u>
14011KT 110V190	09013KT	No – there is no significant change – TAF on track
9999 -TSRA	TEMPO 2012/2019 2500 TSRA	No – there is no significant change – TAF on track
SCT025CB FEW040CB	BKN040 FEW040CB	No – there is no significant change change– TAF on track



Monitoring (AMF AC 1.2) of TAF FAKN at 10Z

Submitted TAF

TAF FAKN 200900Z 2010/2018 **09007KT 9999 BKN015** TX18/2010Z
TN14/2018Z
TEMPO 2010/2018 **3000 DZ BKN010**
PROB30 TEMPO 2012/2018 -TSRA FEW030CB=

Monitoring of real time data

METAR FAKN 201000Z **15007KT 9999 BKN009 OVC015** 16/13 Q1027 NOSIG=

<u>METAR</u>	<u>TAF</u>	<u>Amend?</u> <u>(yes or No)</u>
15007KT	09007KT	No – there is no significant change – TAF on track
9999	9999	No – there is no significant change – TAF on track
BKN009 OVC015	BKN015 (there is a TEMPO for BKN010)	No – there is no significant change– TAF on track

State no amendment is necessary

**South African
Weather Service**



Monitoring (AMF AC 1.2) of TAF FALE at 12Z

Submitted TAF

TAF FALE 201000Z 2012/2118 **20020G30KT 9999 BKN020**
TX23/2012Z TN12/2104Z
BECMG 2112/2114 20010KT=

Monitoring of real time data

METAR FALE 201200Z **17020G30KT 9999**
FEW018 BKN021 BKN035TCU 19/13 Q1027
NOSIG=

There is doubt that observation of TCU is correct given the satellite and radar imagery.

<u>METAR</u>	<u>TAF</u>	<u>Amend?</u> <u>(yes or No)</u>
17020G30KT	20020G30KT	No – there is no significant change – TAF on track
9999	9999	No – there is no significant change – TAF on track
FEW018 BKN021 BKN035TCU	BKN020	YES , because TCU is significant



Amending (AMF AC 1.3) TAF FALE at 12Z

Submitted TAF

TAF AMD FALE 20**1205Z** 2012/2118 20020G30KT 9999
BKN020 **BKN035TCU**
TX23/2012Z TN12/2104Z
BECMG 2013/2015 BKN015
BECMG 2112/2114 20010KT=

In the answer above, one can assume it took 5 min to amend the TAF after seeing the 12Z METAR, hence the submitted time of **1205Z**

Because the **BKN035TCU** was added based on the observation it would have to be removed at some point because the time section did not show it to last. Therefore **BECMG 2013/2015 BKN015 needs to be added.**



Continuous monitoring (AMF AC 1.2)

- Monitoring needs to be continuous.
- You need to monitor your TAF every time new data becomes available, therefore, every 6min for RADAR, every 15 min for Sat and every 30min to 60min for METARs, or even shorter if there is a SPECI.



References

- Latest edition of RTC-CN-020_Aviation Practical Course Notes
- RTC-PRE-010_AMF AC
2.1.1_2.1.2_2.1.4_2.1.5_2.1.6_2.2_1.2_1.3_Forecast Weather Parameters and Phenomena_TREND and TAF

