Winter Season 2021/2022

De-icing Operations

Airside Operations





Winter Season 2021/2022 Seasonal Aircraft De-Icing Plan



Luftfahrzeugenteisungsplan Frankfurt/Main Wintersaison 2021/2022

Die Inhalte des Dokuments werden fortlaufend durch eine Arbeitsgruppe, bestehend aus Mitgliedern der relevanten Bereiche der Fraport AG, der FRA-Vorfeldkontrolle GmbH, der Deutschen Flugsicherung GmbH (DFS) und N'ICE Aircraft Services & Support GmbH überprüft, angepasst und weiterentwickelt.

Der Luftfahrzeugenteisungsplan Frankfurt/Main wird zur Referenz ebenfalls in englischer Version veröffentlicht.

Das verbindliche Dokument wird vor jeder Wintersaison durch die Fraport AG in deutscher Sprache veröffentlicht.

Frankfurt Aircraft Deicing Plan Winter Season 2021/2022

The contents of this plan are continuously reviewed, updated and developed by a working group consisting of members from the relevant departments of Fraport AG, FRA-Apron Control GmbH, German ATC (Deutsche Flugsicherung GmbH - DFS), N°ICE Aircraft Services & Support GmbH.

The English Version of the Aircraft Deicing Plan is for reference purposes only. The binding document will be published in the German language before the beginning of every Winter Season by Fraport AG.

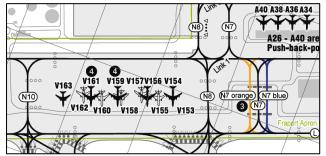
This version replaces all previously valid versions. All new additions and changes to the previously valid version are underlined.

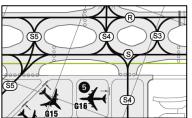
AIP AD2 EDDF



Publications:

- Chapter 11: Procedures for the De-Icing of Aircraft
- EDDF 2-5 Aerodrome Chart
- EDDF 2-9 Aerodrome Ground Movement Chart





Supplementary Information

CAT IIIa and CAT IIIb (MNM RVR 75 m) approved. (EDDF AD 1.1) TWY edge lights not shown.

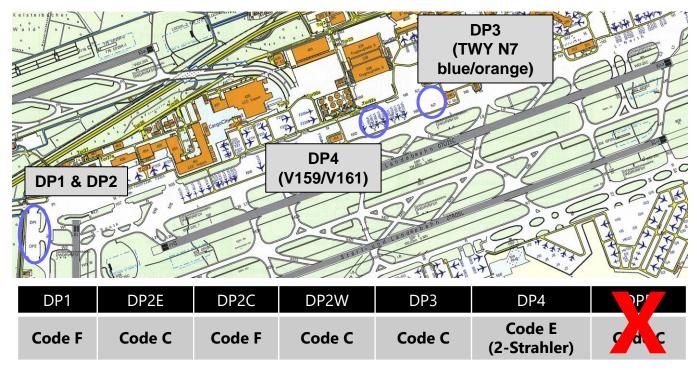
- Service road; in use under CAT I operational condition only.
- De-icing Pad West (DPW)
 - Includes DP1 & DP2
 - DP2 East and DP2 West max. Code C
 - Pilot stop aircraft on De-Icing Pad in eyeline with holding point marking/lights
 - After De-Icing intersection take-off out of TWY W3 is required
- 3 4 5 Other areas for additional de-icing
 - Designators are published in the seasonal Frankfurt aircraft de-icing plan
 - Taxi instructions to the respective area for aircraft de-icing are given by apron control
 - Within the area for de-icing aircraft will be guided to the exact de-icing position by a marshaller. Adhere to the instructions given by the marshaller.



Aircraft De-Icing Pads

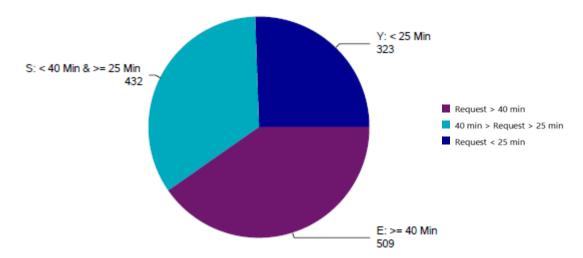


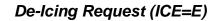
De-Icing Pads (DPD) for Remote De-Icing (ICE = R)



Airport CDM@FRA "De-Icing request"







VHF: 121.985 MHz "Frankfurt De-Icing" Tel.: (0 69) 6 90 – 3 05 60

ACARS (Data-Link)
Technical infrastructure needed!

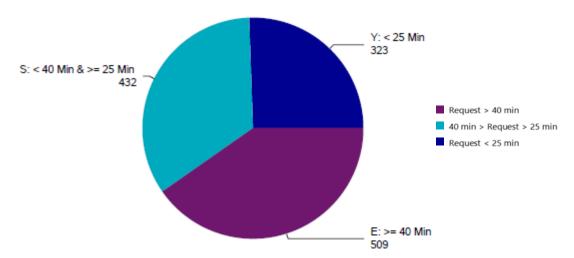


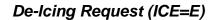
De-Icing Request (ICE = E):

Due to the influence that aircraft de-icing has on the sequencing process it is highly advised to request aircraft de-icing at the latest "TOBT – 40 minutes" (which is the time that the TSAT is published).

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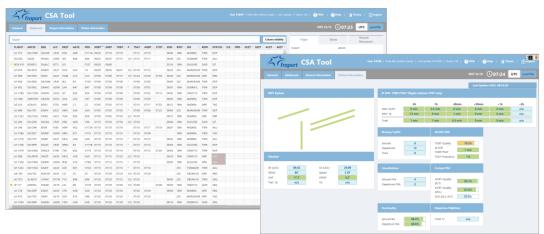


Airport CDM@FRA "Data exchange & Information Sharing"

Airport CDM FRA

Information tools:

- CSA-Tool flight details incl. de-icing data
- CSA-Tool Airport Information (e.g. SNOWTAM or Snow Removal)
- CSA-Tool Online Information (e.g. Delays, current de-icing or pads opened)
- A-VDGS: De-Ice on Position ECZT 1030 / De-Ice on Pad DPW



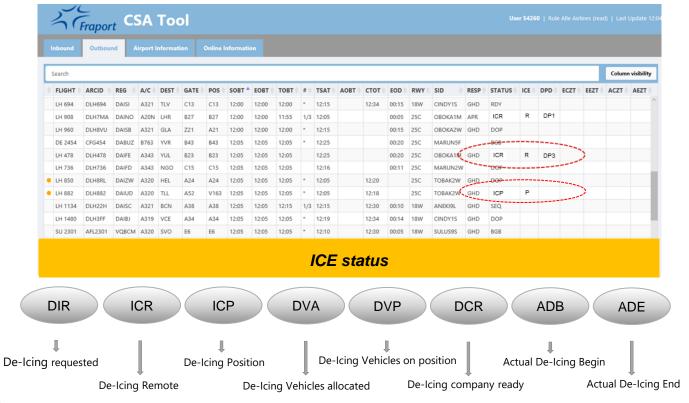






Airport CDM@FRA "CSA Tool – De-Icing display Data"





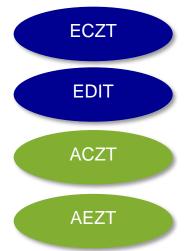




De-Icing@FRA Position De-Icing







TSAT=De-Icing end
Exception: regulated
flight with CTOT!
Pilot: "REQUEST STARTUP AFTER DE-ICING"

Ground Handling

De-Icing

Taxi outbound

Take-Off

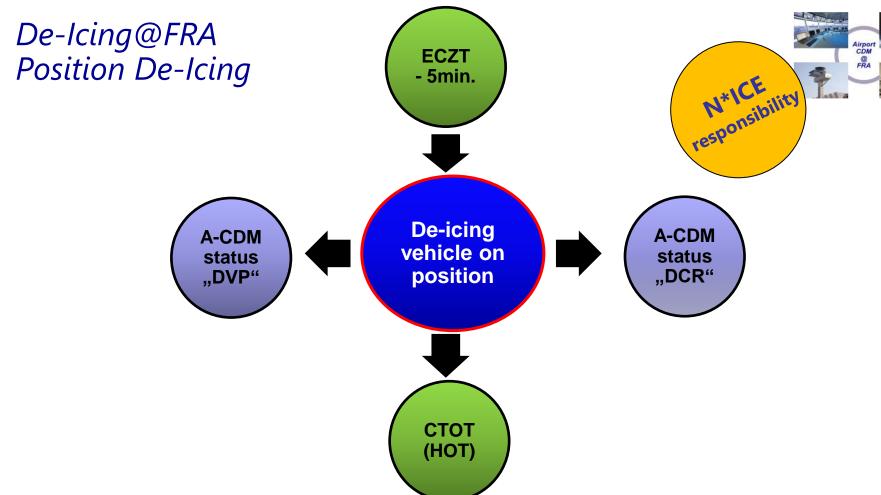
Position Deicing (ICE=P) -

TOBT/ECZT

TSAT







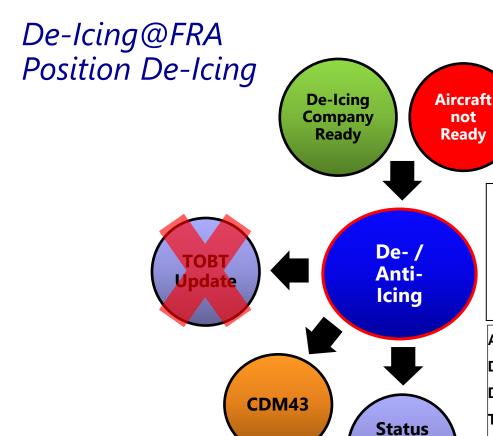


De-Icing@FRA Position De-Icing **Deicing Aircraft** Company not Ready Ready **TOBT** Flight not ready for deicing De-/ **Update** Anti-XYZ1AB/XY123 **Icing** CDM40 1110050930UTC FRA/EDDF Flight not compliant with TOBT 0925. Deicing could not CDM40 be initiated. Update of TOBT needed. Note: the Airport CDM process may be suspended until





reception of your new TOBT.





DEICING CANCELLED AND TOBT

DELETED XYZ1AB/XY123

CDM43

1110050930UTC

FRA/EDDF

AIRCRAFT WAS NOT READY FOR DEICING. **DEICING IS CANCELLED AND TOBT IS** DELETED. FIRST NEW TOBT NEW TOBT AND THEN NEW DEICING REQUEST REQUIRED.

Note: The Airport CDM process is suspended until reception of your new TOBT.





standby

"SBY"

De-Icing@FRA Remote-Deicing







Ground Handling

Taxi outbound

De-Icing

Take-Off

Remote De-Icing (ICE=R)

TOBT / TSAT

Pilot: "REQUEST START-UP FOR REMOTE DE-ICING" ECZT will not be published – display of ACZT / AEZT





Operation Mode "simplified sequencing"

AVIATION WORLD EXPRESS (AWE) + CSA-Tool - Airport Information



Activation A-CDM Operations Mode "simplified sequencing"

DUE TO SNOWFALL OR HIGH DEICING DEMAND THE FOLLOWING PROCEDURES ARE IN USE UNTIL FURTHER NOTICE.

A SIMPLIFIED SEQUENCING IS USED FOR THE PLANNING OF DEICING AND ALLOCATION OF A DEICING LOCATION.

START-UP PROCEDURE ACCORDING TO TSAT IS STILL VALID. START-UP CLEARANCE VIA DATALINK IS NOT POSSIBLE (CHECK ATIS).

PLEASE BE ADVISED, THAT THE TSAT MAY BE DELETED FOR FLIGHTS WITH STATUS "DE-ICING REQUESTED".

THE INFORMATION TO PILOTS IN THIS CASE WILL BE: "YOU ARE LISTED FOR DE-ICING, WAIT FOR DE-ICING LOCATION"

AS SOON AS TARGET TIMES FOR YOUR FLIGHT ARE AVAILABLE, THE TSAT IS PUBLISHED AGAIN.

WE WOULD LIKE TO REMIND YOU, THAT IT IS MANDATORY TO UPDATE THE TOBT.

PLEASE MAKE SURE THAT YOUR COCKPIT IS INFORMED ABOUT ACTIVATION AND PURPOSE OF THIS OPERATIONS MODE!

WE WILL INFORM YOU UPON RESUMPTION OF NORMAL A-CDM OPERATION.





Operation Mode "A-CDM Emergency Mode"

AVIATION WORLD EXPRESS (AWE) + CSA-Tool - Airport Information



Activation A-CDM Emergency Mode

DUE TO SYSTEM DISTURBANCE OR IRREGULAR OPERATIONS FOLLOWING A-CDM PROCEDURES ARE IN USE UNTIL FURTHER NOTICE:

START-UP PROCEDURE ACCORDING TO TSAT IS STILL VALID. START-UP CLEARANCE VIA DATALINK IS NOT POSSIBLE (CHECK ATIS).

TSAT CALCULATION AND DEICING PLANNING BASED ON SIMPLIFIED PRE-DEPARTURE SEQUENCE

FOR FLIGHTS WITH DEICING, DEICING SEQUENCE IS BASED ON TOBT. TSAT FOR REGULATED FLIGHTS IS BASED ON CTOT.

PLEASE BE ADVISED, THAT THE TSAT MAY BE DELETED FOR FLIGHTS WITH STATUS "DEICING REQUESTED".

THE INFORMATION TO PILOTS IN THIS CASE WILL BE: "YOU ARE LISTED FOR DE-ICING, WAIT FOR DE-ICING LOACTION."

AS SOON AS TARGET TIMES FOR YOUR FLIGHT ARE AVAILABLE, THE TSAT IS PUBLISHED AGAIN.

FOR FLIGHTS WITHOUT DEICING:

- TSAT = TOBT FOR NON-REGULATED FLIGHTS
- TSAT = CTOT-EXOT FOR REGULATED FLIGHTS

WE WOULD LIKE TO REMIND YOU, THAT IT IS MANDATORY TO UPDATE THE TOBT.

WE WILL INFORM YOU UPON RESUMPTION OF NORMAL A-CDM OPERATIONS.





Operation Mode "Start-Up procedure according to TSAT is suspended"



AVIATION WORLD EXPRESS (AWE) + CSA-Tool - Airport Information

Start-Up procedure according to TSAT is suspended

DUE TO NON-RELIABLE QUALITY OF TARGET TIMES FOR DEPARTURE CLEARANCE, **"START-UP PROCEDURE ACCORDING TO TSAT**" IS SUSPENDED.

PILOTS REQUEST START-UP CLEARANCE VIA R/T WHEN ACTUALLY READY.

DATALINK REQUEST FOR DEPARTURE CLEARANCE MIGHT NOT BE POSSIBLE (CHECK ATIS).

WE WOULD LIKE TO REMIND YOU, THAT IT IS MANDATORY TO UPDATE THE TOBT.

WE WILL INFORM YOU, WHEN "START-UP PROCEDURE ACCORDING TO TSAT" IS VALID AGAIN.



Your Flight – Your Contribution



Requirements for punctual de-icing:

- Timely de-icing request...
- Valid TOBT as a forecast of...

... "Aircraft ready for De-Icing"









Summary



- → We need process reliability:
 - early de-icing request
 - high quality of TOBT at all times
- → Transparency and exchange of information support decision making.
- → We all get better predictability and stability of processes during winter operations.
- → One question remains: How strong is a winter event really?!





Adverse Conditions
Chaotic Situation
Severe Disruption



Airport CDM@FRA We gladly support you!



Service

- Requests concerning specific flights
- -> We need flight number and date of flight
- Aircraft Operator Performance Report
- -> For Airlines and staff responsible for TOBT
- Registration for CSA Tool and changes of TOBT Responsibility
- Customized consulting and training
- Registration of A-CDM Alert email addresses
- Procedure documents and information
- Documents and training material
- Actual information



https://cdm.frankfurt-airport.com









Gute Reise! We make it happen