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Temporary wake vortex measurements at Wien-Schwechat airport (LOWW)

Wien-Schwechat airport (LOWW) under the leadership of Austro Control GmbH, is hosting a SESAR funded wake vortex measurement campaign carried out by the DLR (Deutsches Zentrum für Luft- und Raumfahrt) from May till September 2019.

During this time period it is planned to install plate arrays in front of the threshold of runway 16 to test and measure the effect on wake vortex decay times in comparison to a non-plate line environment.

It is expected that those plate lines will reduce wake vortex decay times yet increasing flight safety for arrivals operating in the final stages of their flight.

Design criteria for the test environment:

- 2 plate line arrays (400 M and 740 M northwest of the threshold runway 16, see Fig. 2)
- No obstruction of the approach light system 16 (see Fig. 1)
- Outside RESA
- Frangibility proven
- No influence on SMR or ILS components proven
- Wake vortex measurements by LIDAR systems installed at various positions at the airport (see Fig. 2)
- Plate lines are normally flat fixed on the ground and will be erected for measurement cycles

Fig. 1: Simulated view on the 400 M plate line array on final approach to runway 16

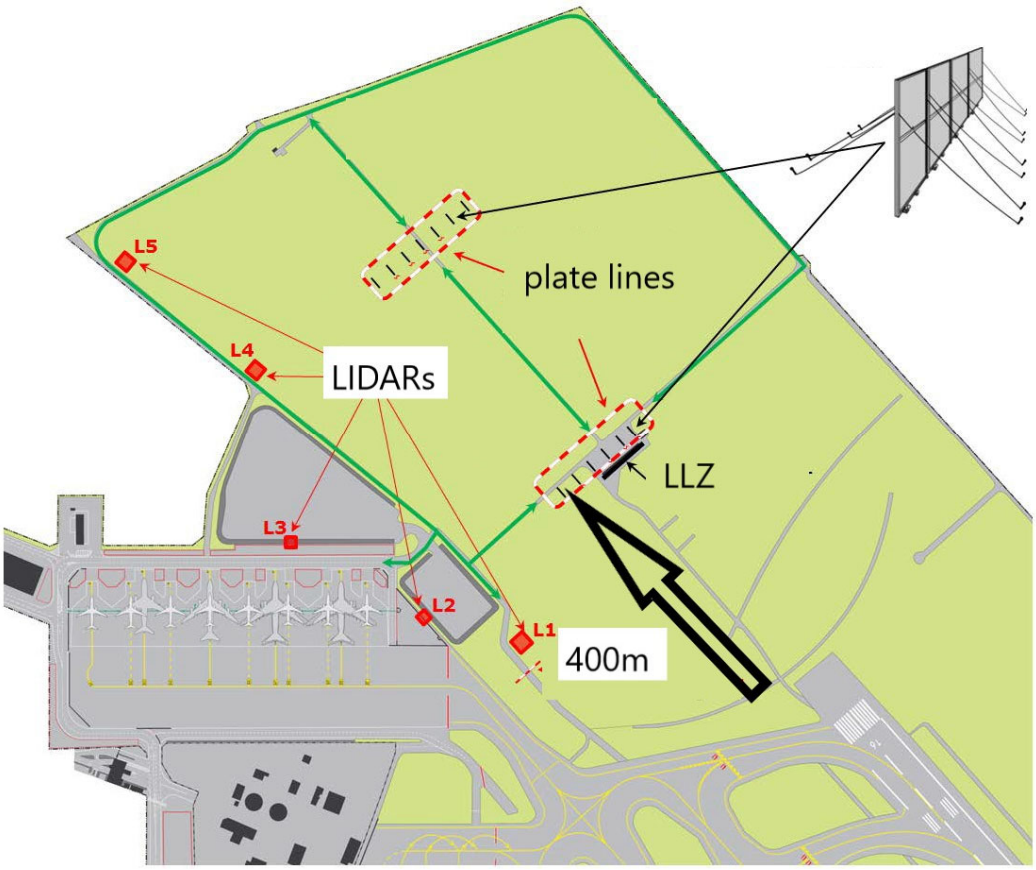

Fig. 2: Survey on plate line and LIDAR locations at runway 16.

Conditions to be met for measurements with installed/erected plate lines:

- During daylight only (Installation normally around 0800 local time and deinstallation around 1930 local time)
- At prevailing surface wind conditions in direction perpendicular to runway less than 19 knots
- During weather conditions well above CAT I Minimums (VIS greater than 1200 M, ceiling more than 300 FT)

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