

Figures referenced in the “description of the main S & T results/foregrounds” section of the final report.

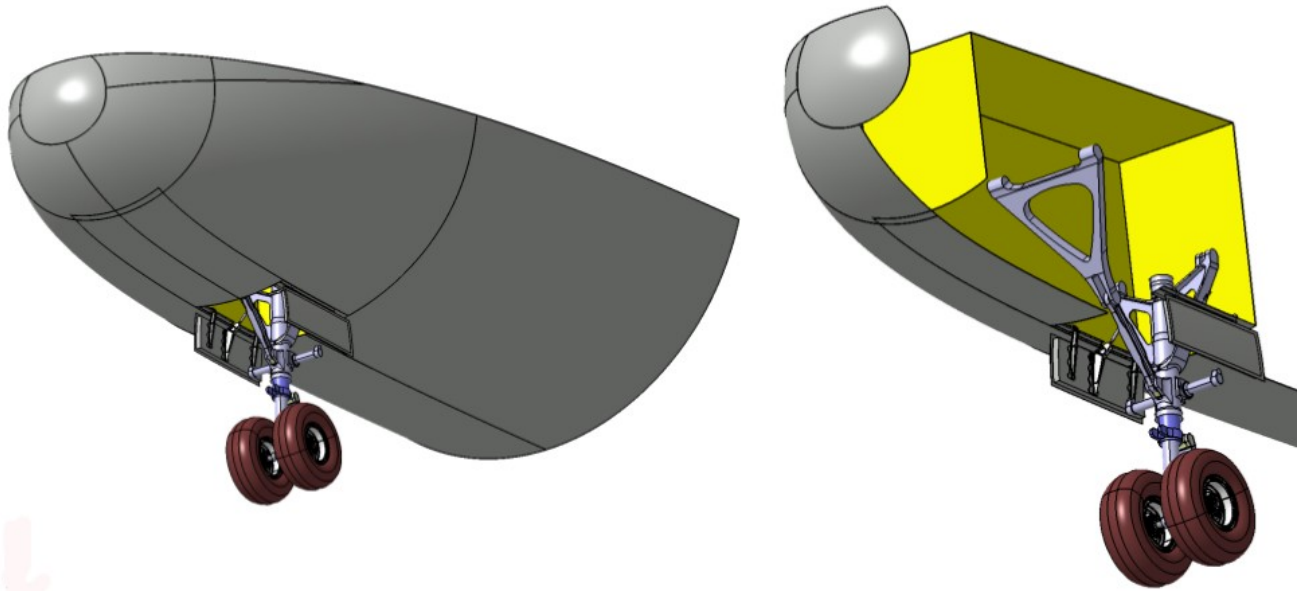


Figure 1: Nose landing gear and bay configuration

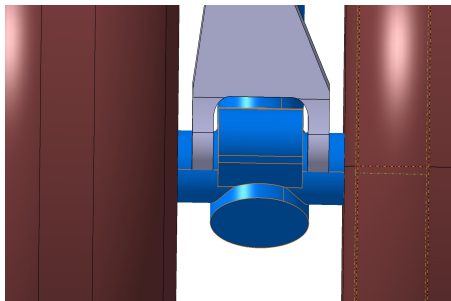


Figure 2a): Before filling the gaps

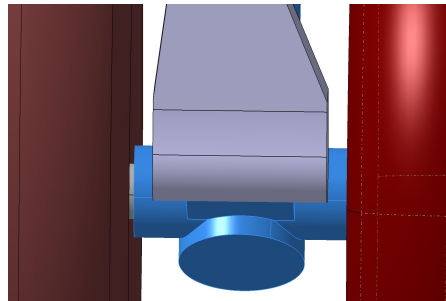


Figure 2b): After filling the gaps

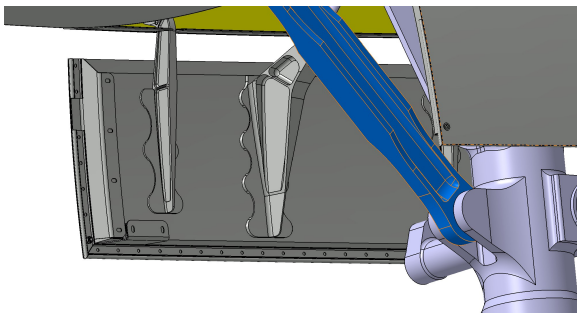


Figure 3a): Initial door

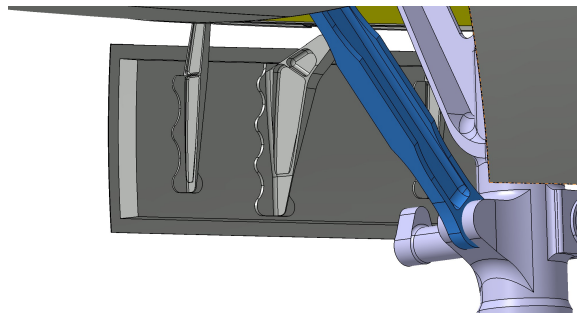


Figure 3b): Simplified door

Complex geometries such as wheels and rims have been changed slightly in order to increase

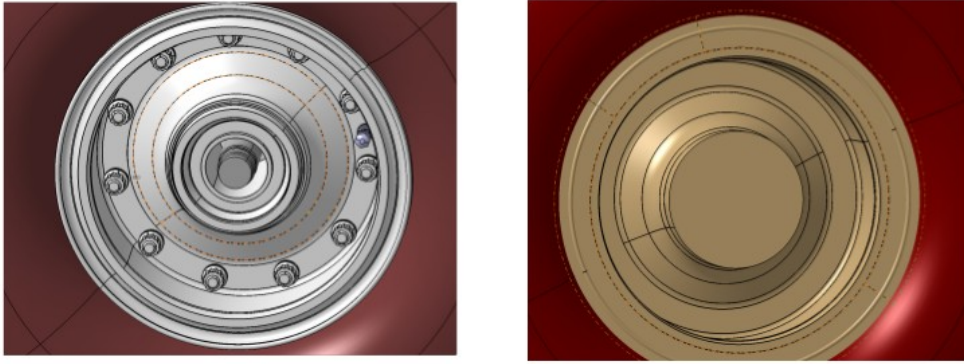


Figure 4: Simplifications on rims

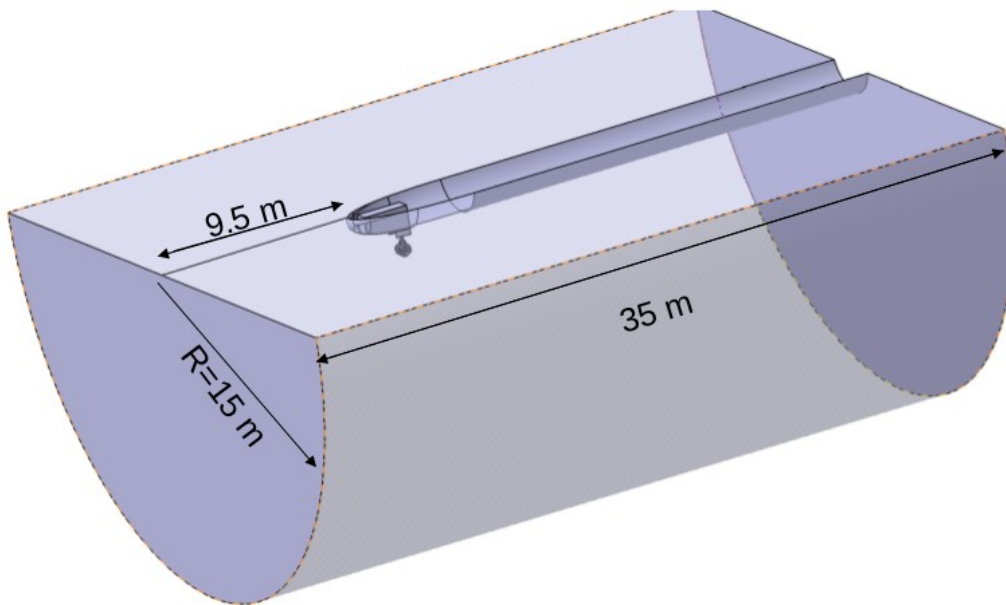


Figure 5: Computational domain

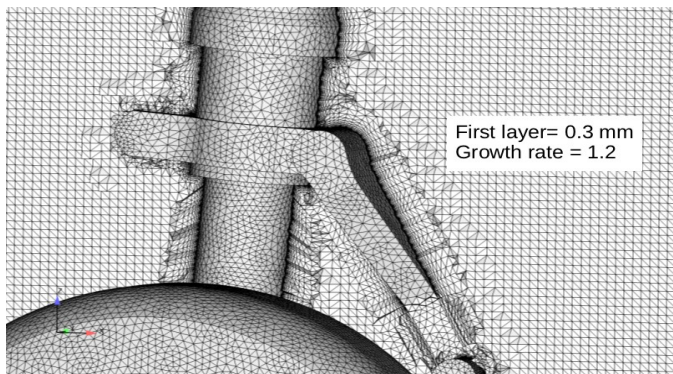


Figure 6: Boundary layer mesh

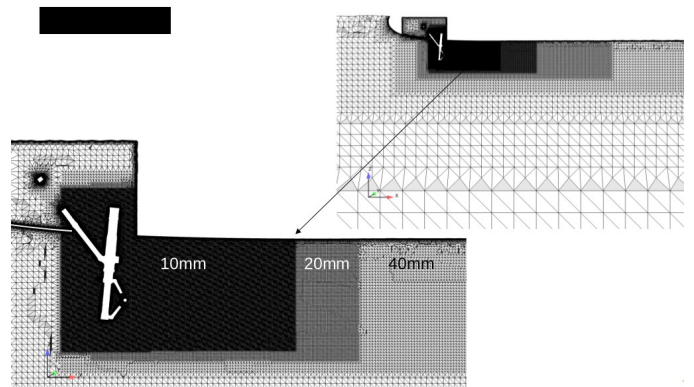


Figure 7: Mesh refinement in XZ plane

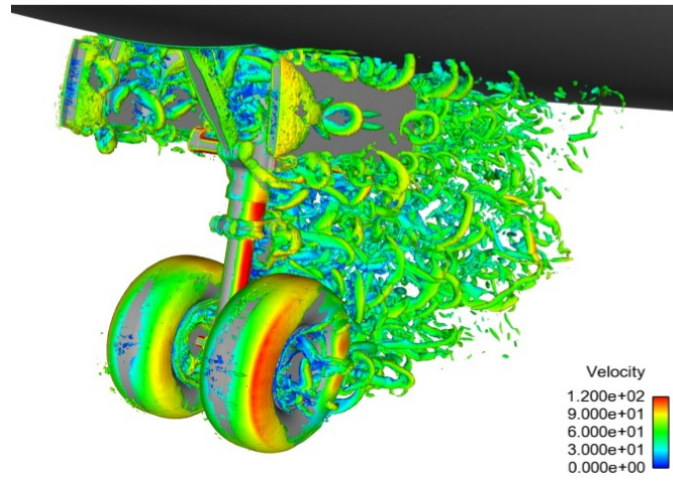


Figure 8: Vortical structures of the baseline DDES simulation

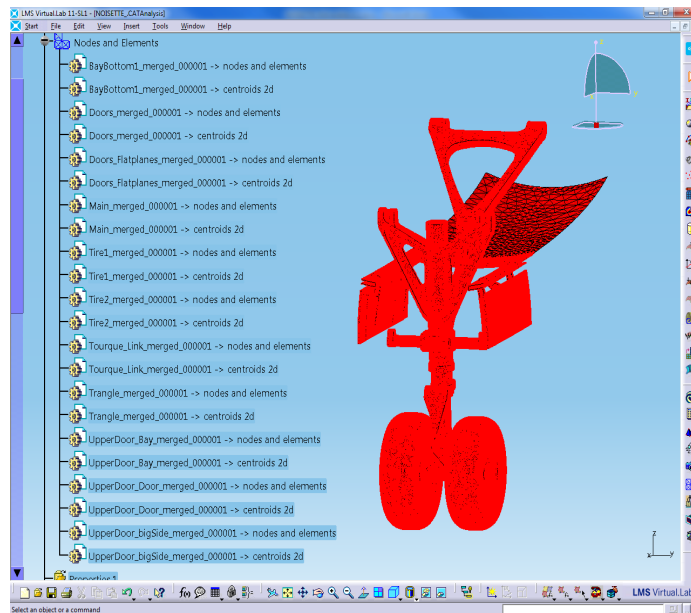


Figure 9: Imported mesh in Virtual Lab

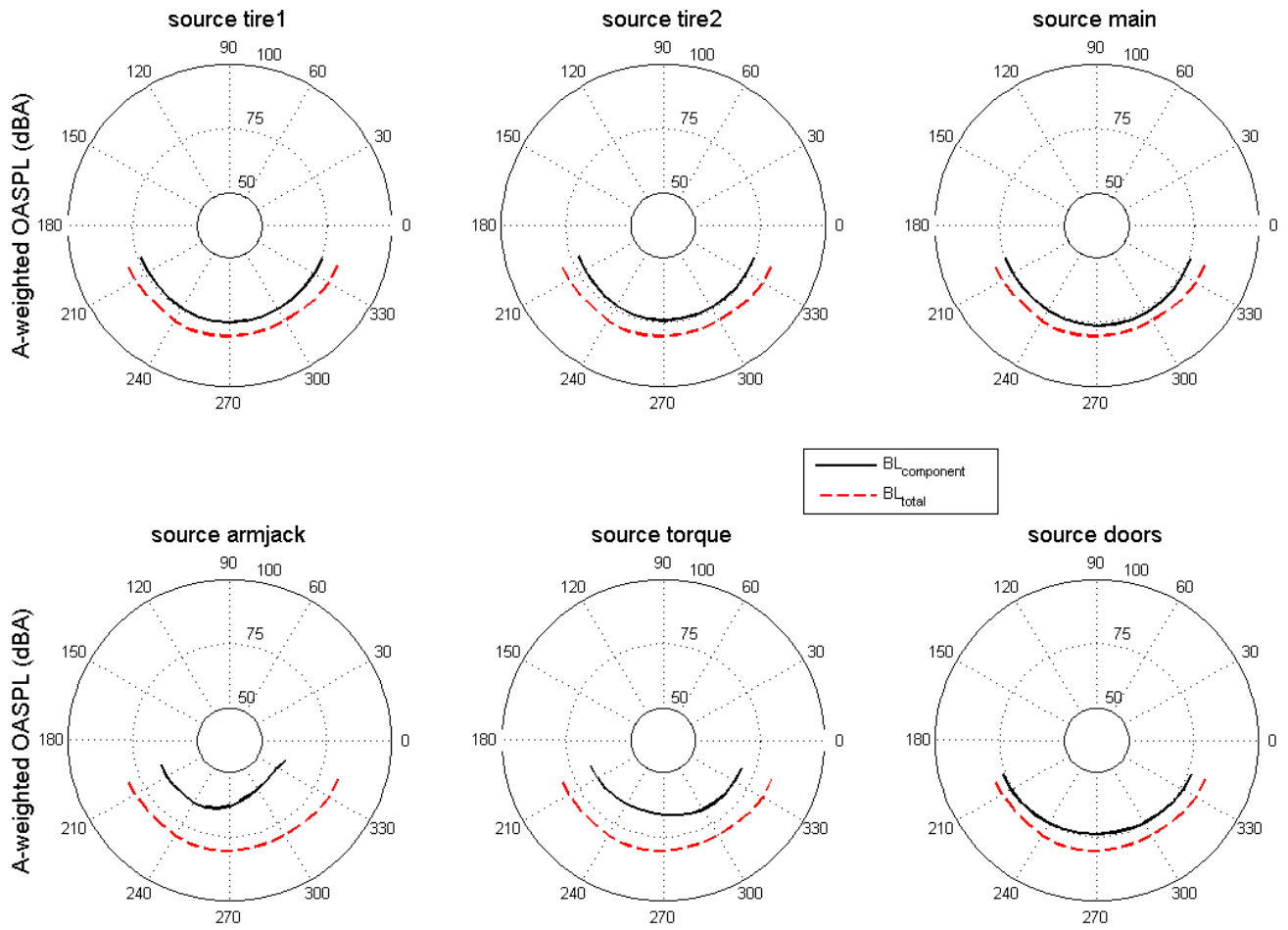


Figure 10: OASPLA generated by the baseline (BL) configuration

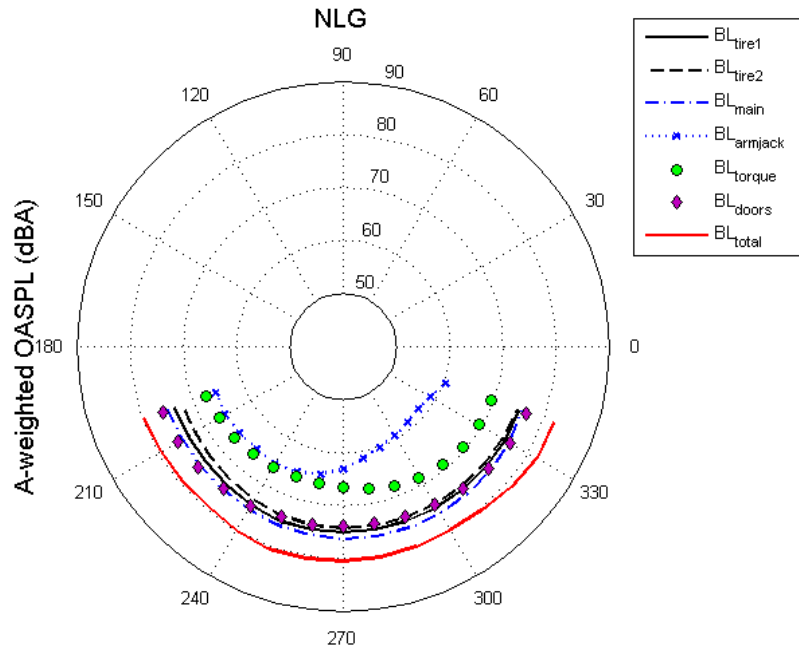


Figure 11: OASPLA generated by the baseline configuration for all NLG components

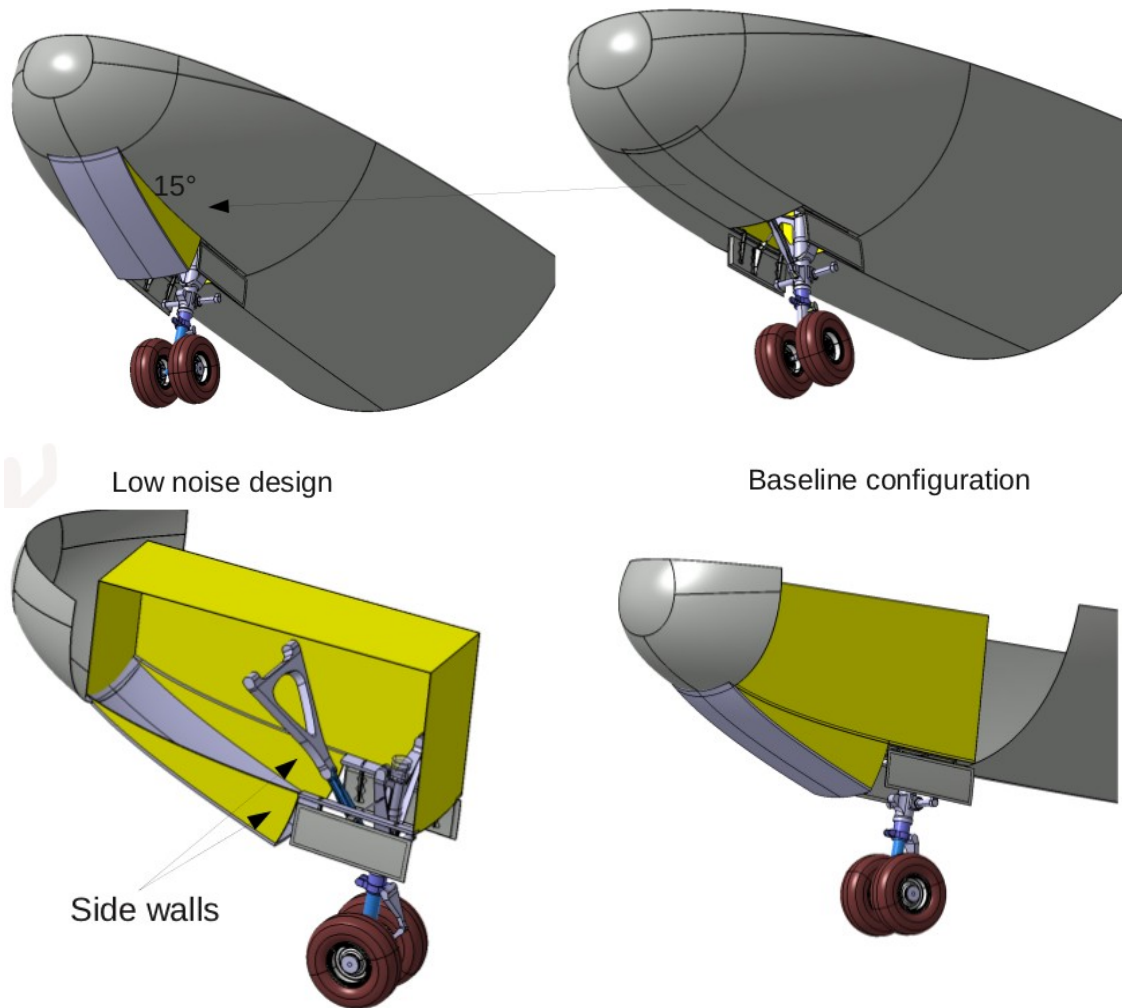


Figure 12: Schematics of the first low noise design. A spoiler is formed by adjusting the front door.

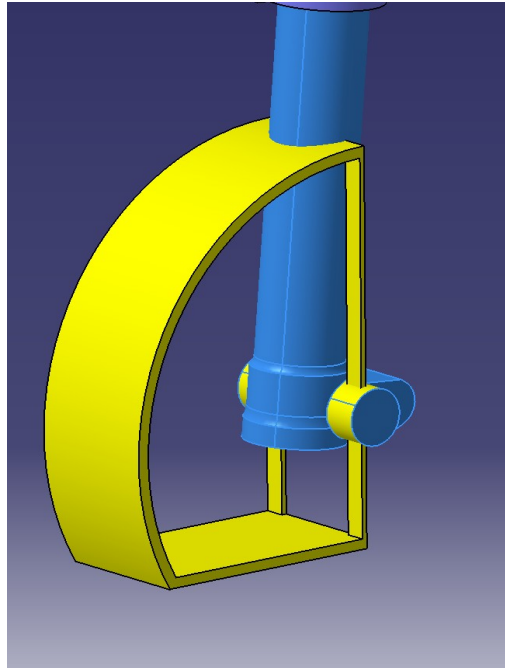
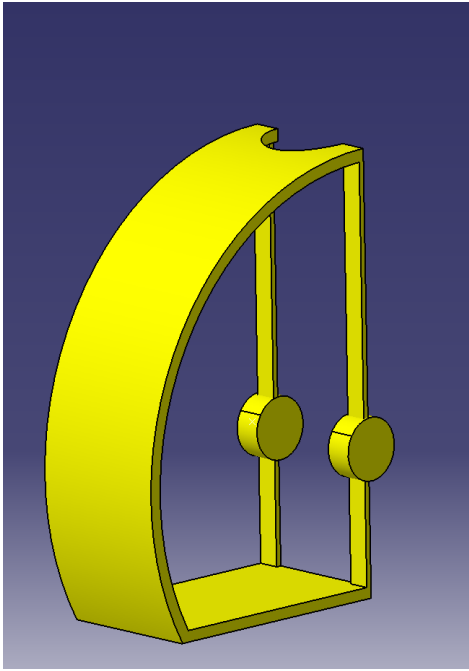


Figure 13: Schematics of the windshield

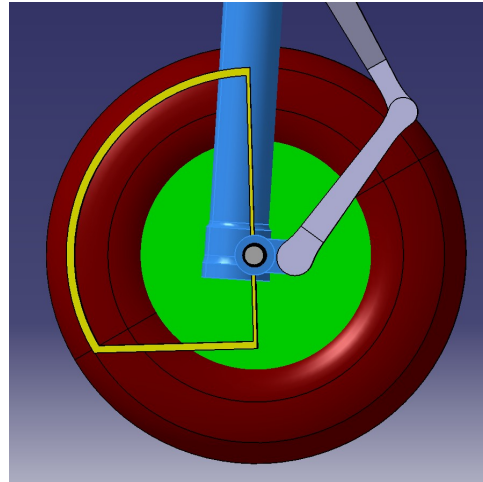
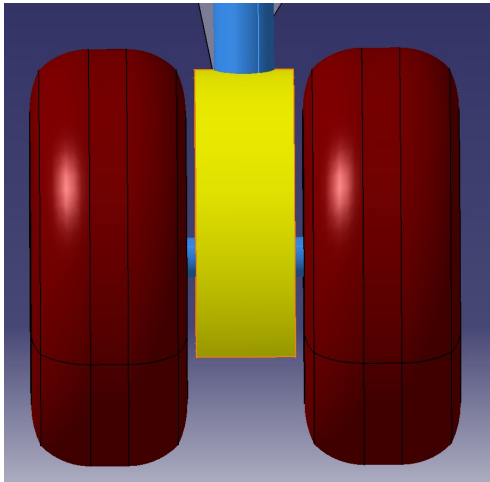


Figure 14: Installation of the windshield between the two wheels

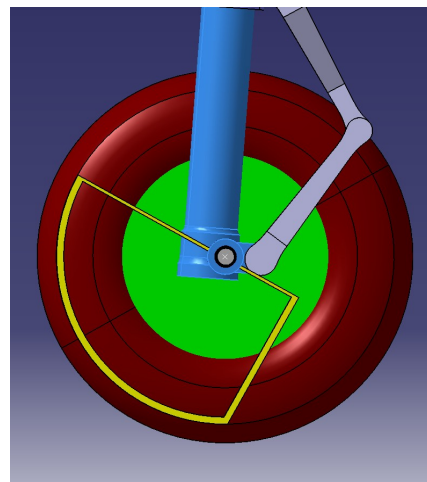
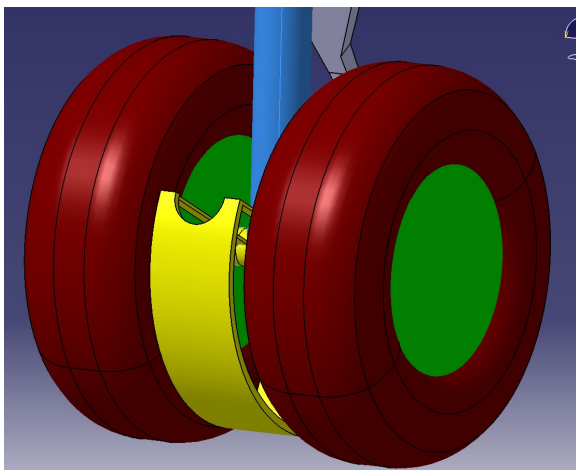


Figure 15: Position of the windshield for technical check

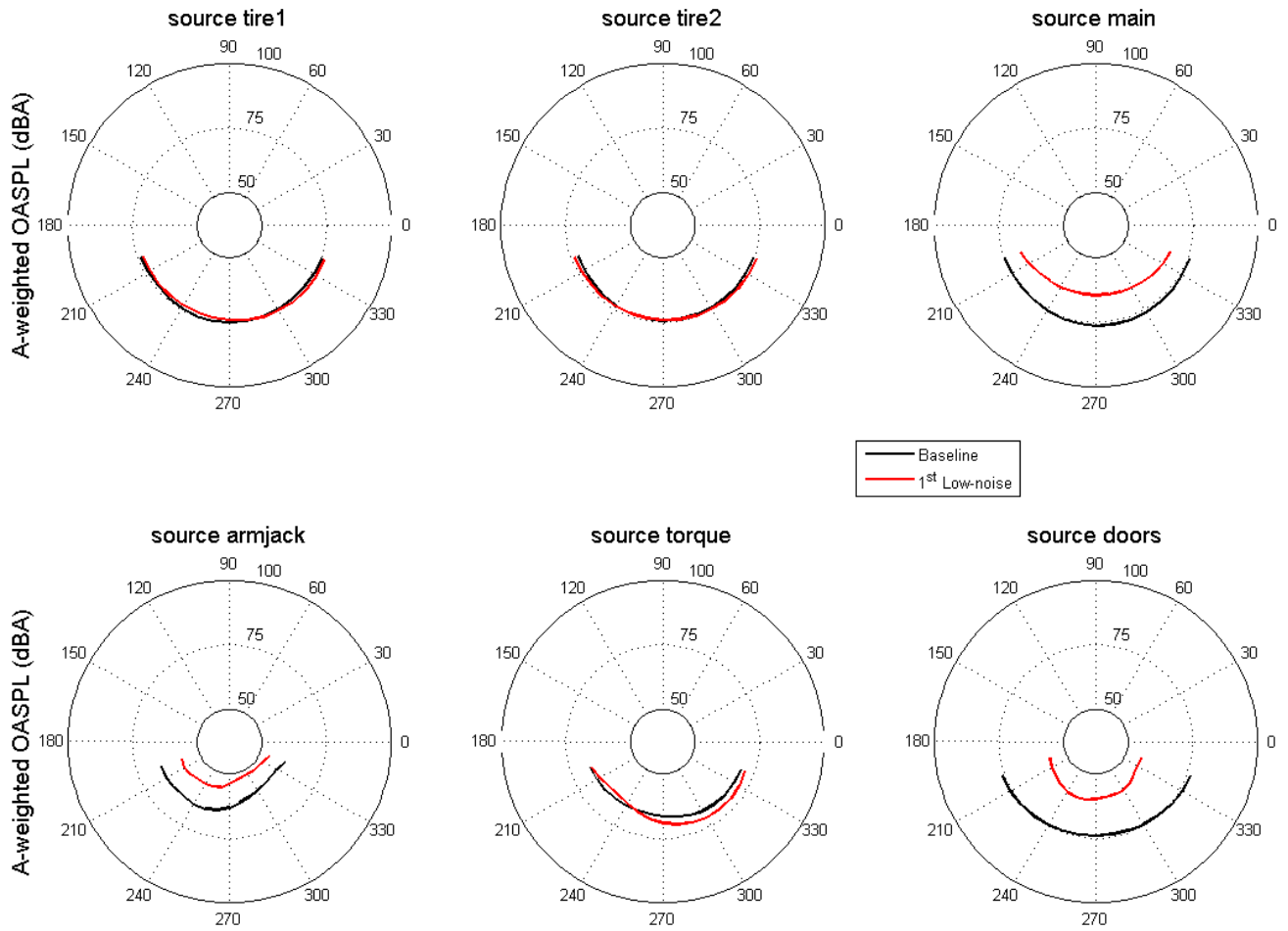


Figure 16: OASPLA of the NLG components for baseline(black) and 1st low-noise configuration(red) at the polar observer array located 45m below

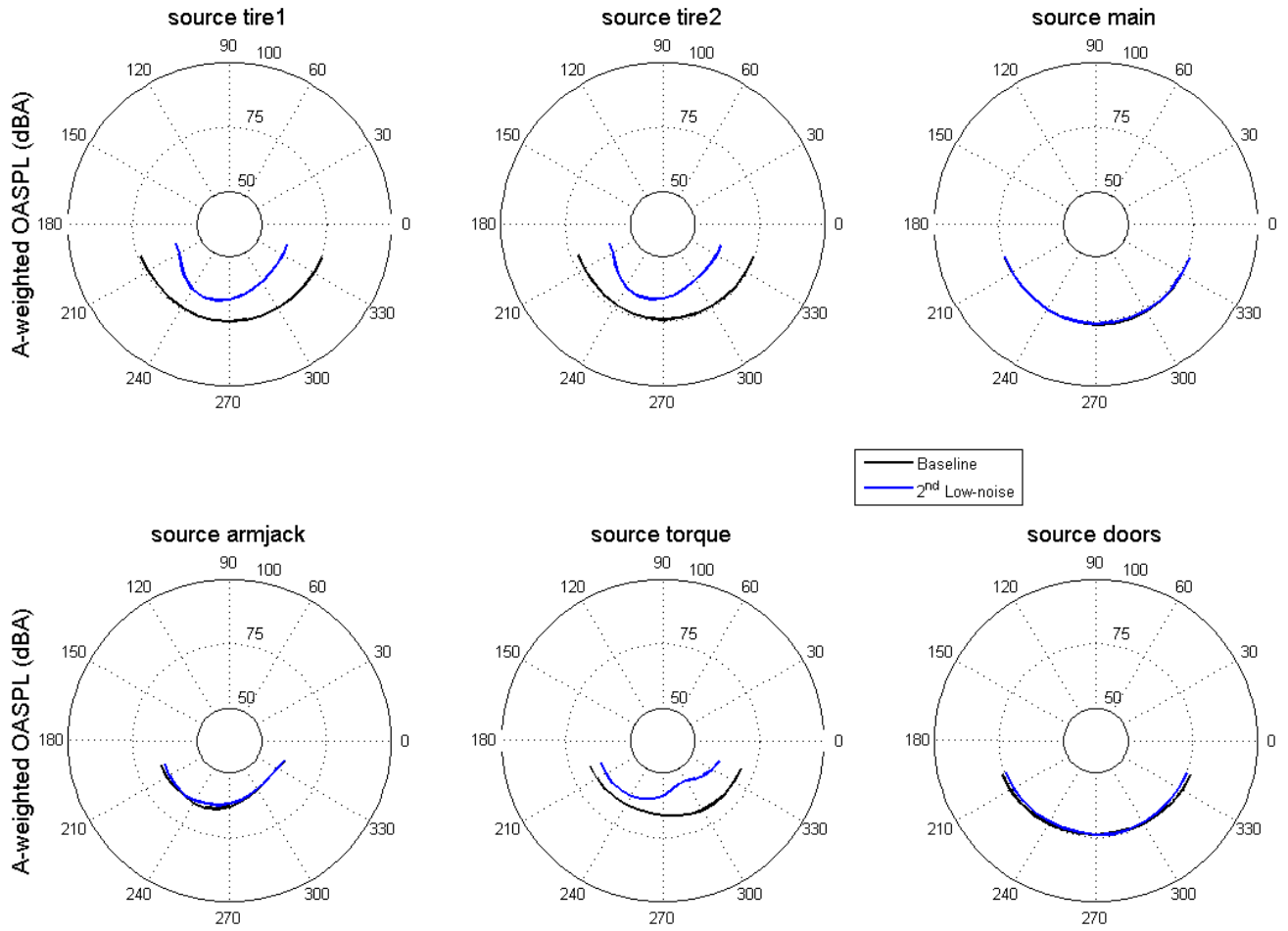


Figure 17: OASPLA of the NLG components for baseline (black) and 2nd low-noise configuration (blue) at the polar observer array located 45 m below

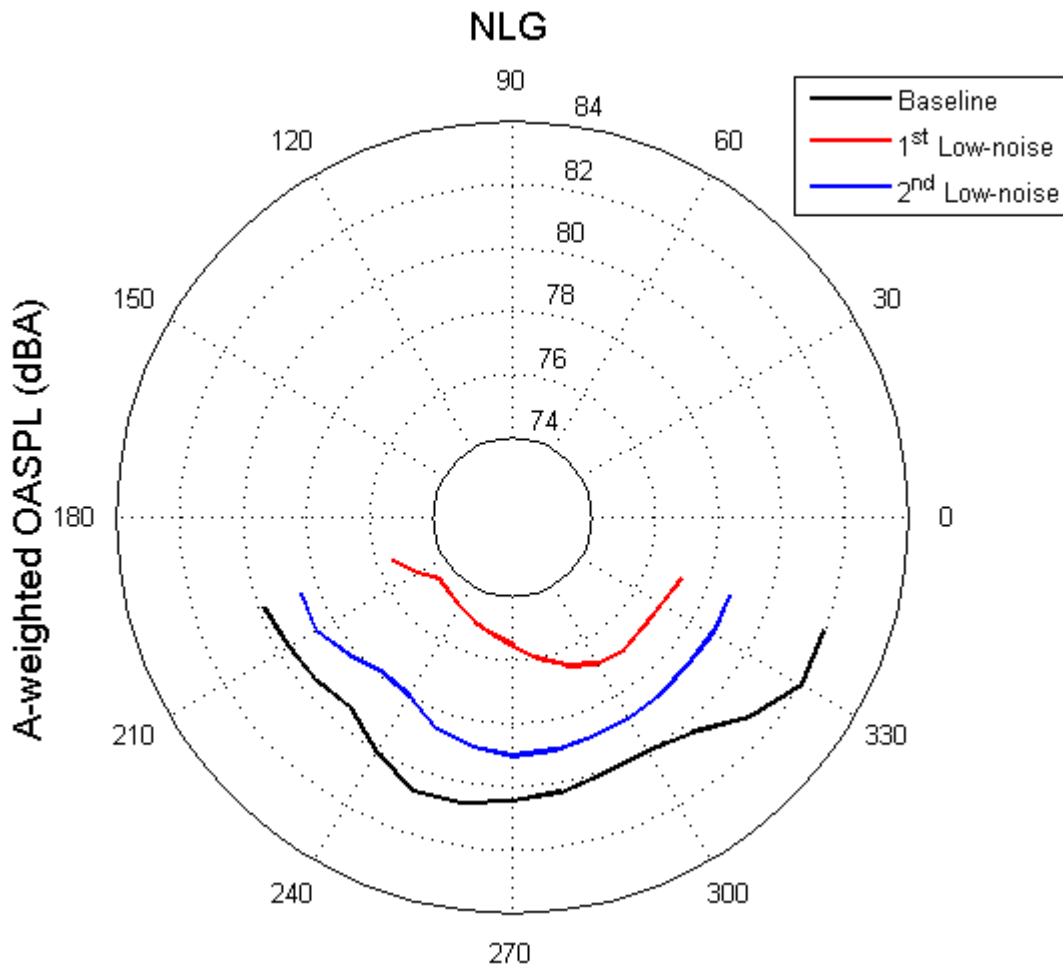


Figure 18: Total OASPLA of the NLG components for baseline (black) and 1st (red) and 2nd (blue) low-noise configuration at the polar observer array located 45 m below

3. Project management during the period

All along the NOISETTE project, Cenaero has closely monitored the work. The Project Management Committee has organized several meetings in order to be coherent with the topic requirements.

A quick-off meeting has been organized through a webex on March 12, 2013.

The official KoM took place with two month delay in comparison to the initial DoW. Therefore, a proper action (extension request) has been taken to avoid payment issues at the end of the project. Our request has been accepted by the CleanSky JU officer with a new duration of 13 months (putting the end of the project on January 2014).

Six progress meetings have been held during the project in order to monitor the work progress.

- 2013/07/10: Meeting CN-VKI @ VKI
- 2013/09/03: Meeting CN-VKI @ VKI
- 2013/11/08: Meeting CN-VKI @ CN
- 2013/09/19: Meeting CN-VKI-CIRA @ CIRA
- 2013/12/20: Meeting CN-VKI (Webex)
- 2014/01/10: Meeting CN-VKI @ VKI

More specifically, NOISETTE partners have attended the landing workshop held in September at CIRA premises. The aeroacoustic baseline configuration results have been presented and the two low noise concepts (N-01 & N-02) have been proposed to the consortium.

A final meeting has been organized end of March 2014 through a webex. All the document related to the project (contractual document, minutes of meetings and related presentations, DOW document, deliverables, ...) have been stored on the Cenaero project portal powered by ProjectCoordinator.

Furthermore, a private room has been created on the platform specifically dedicated to the NOISETTE project in order to provide the deliverables to the end-user. Moreover, a DVD containing the geometries and the meshes have been send to the end-user as required.