



ANSA meshes for HLPW-6 Test Case 1

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September 23rd 2026

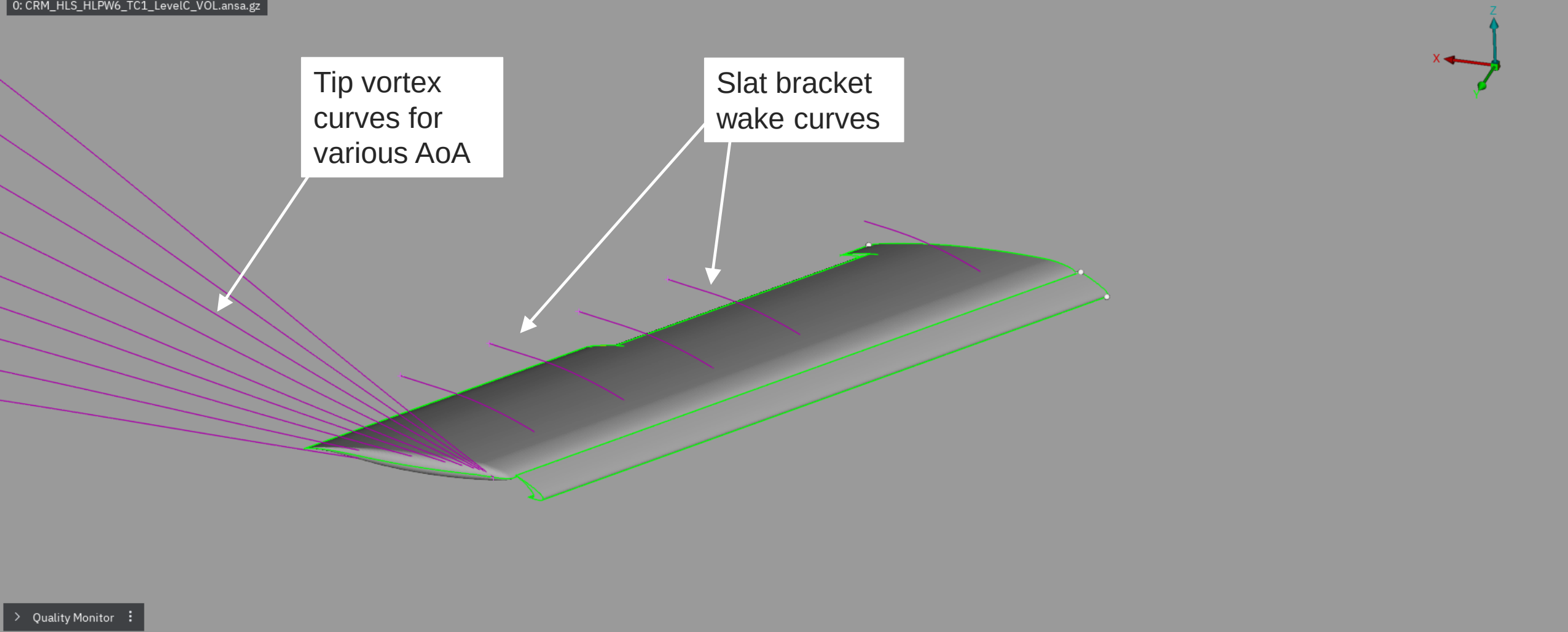
ANSA meshes provided for Test Case 1

Refinement Level (factor)	Surface element count	Volume element count
A (2.0)	295k	17 million
B (1.5)	419k	25 million
C (1.0)	734k	46 million
D (0.75)	1144k	78 million
E (0.5)	2279k	178 million

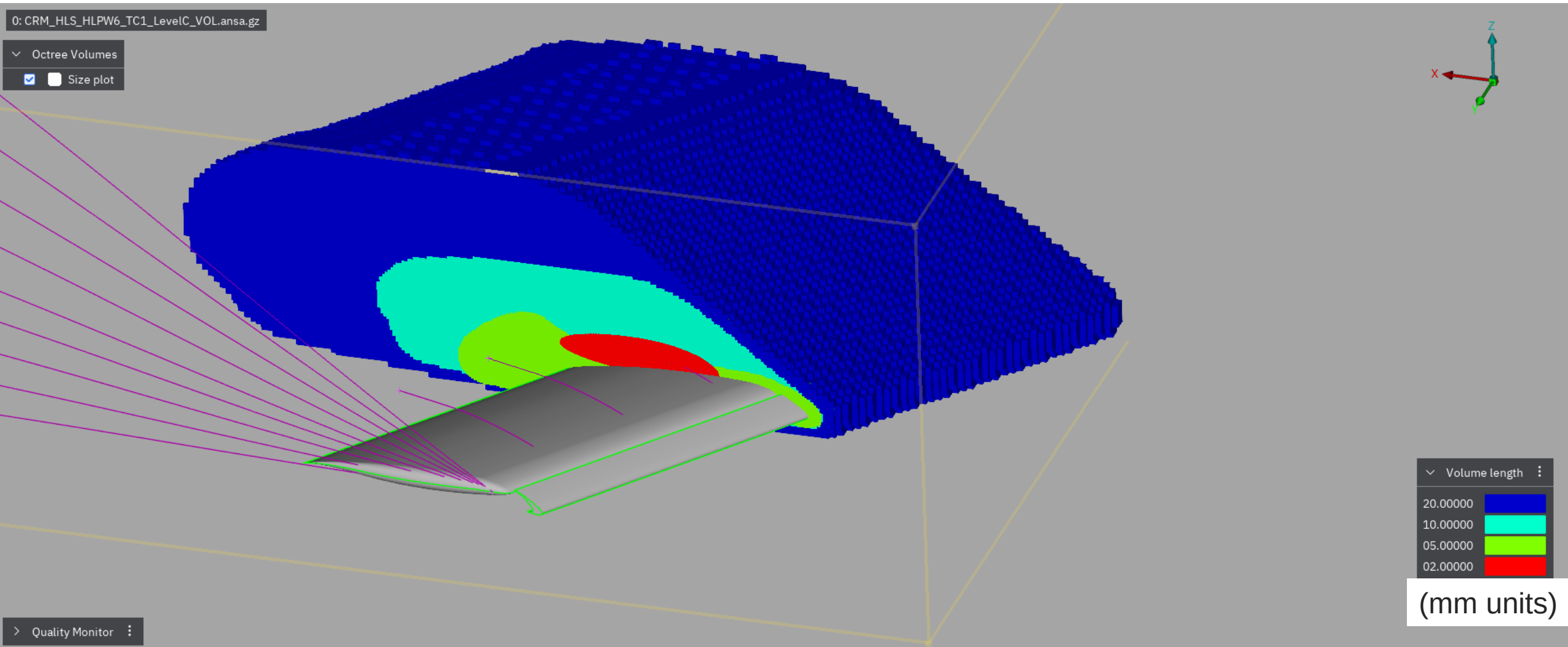
- Hexa dominant meshes
- y+1 layers (40 layers, first height 0.005mm, two constant layers, then growth rate of 1.2, last aspect ratio 0.6. Layer parameters are kept constant throughout all mesh refinement levels
- Size Field refining tip vortex, slat bracket, wing and flap wakes at various AoA
- Anisotropic mesh treatment at leading, trailing and sharp edges to reduce the cell count
- Provided meshes in CGNS format in meters units

Geometry and Size Rule curves for refinement

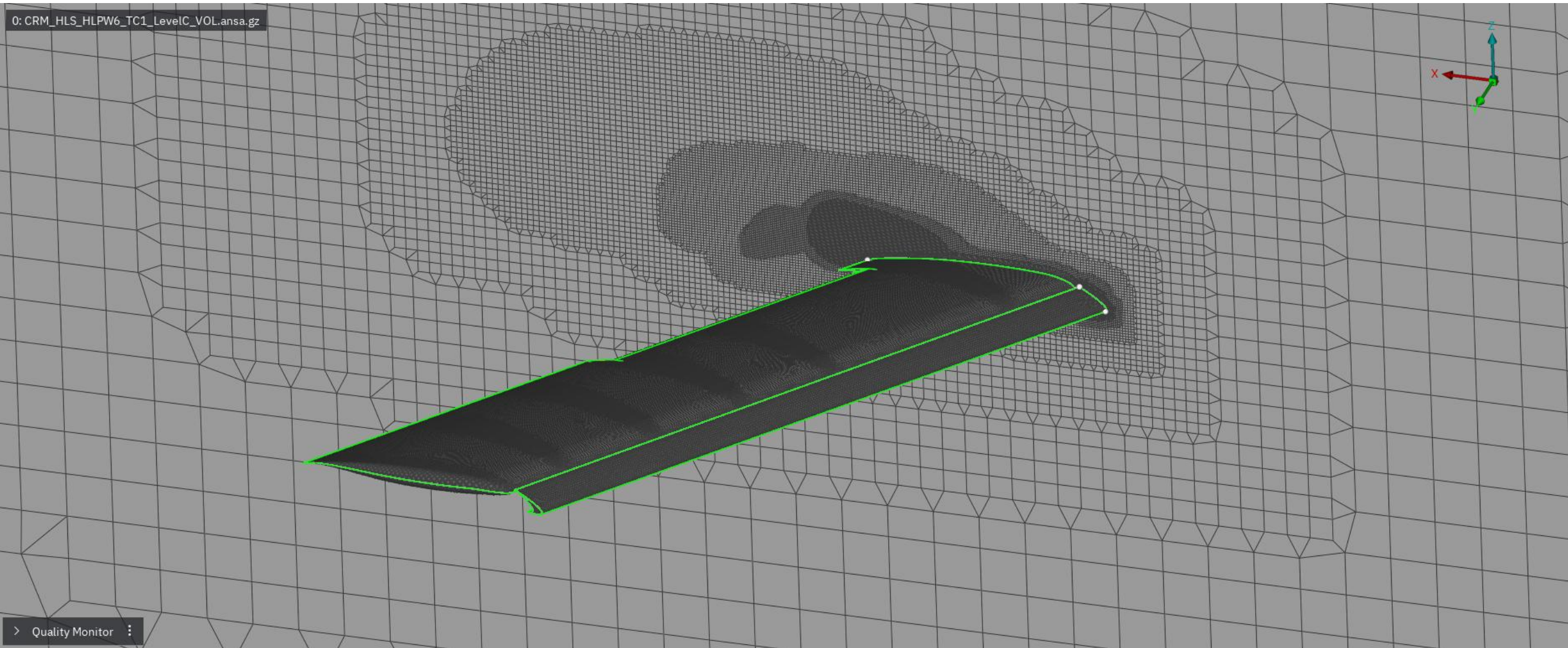
0: CRM_HLS_HLPW6_TC1_LevelC_VOL.ansa.gz



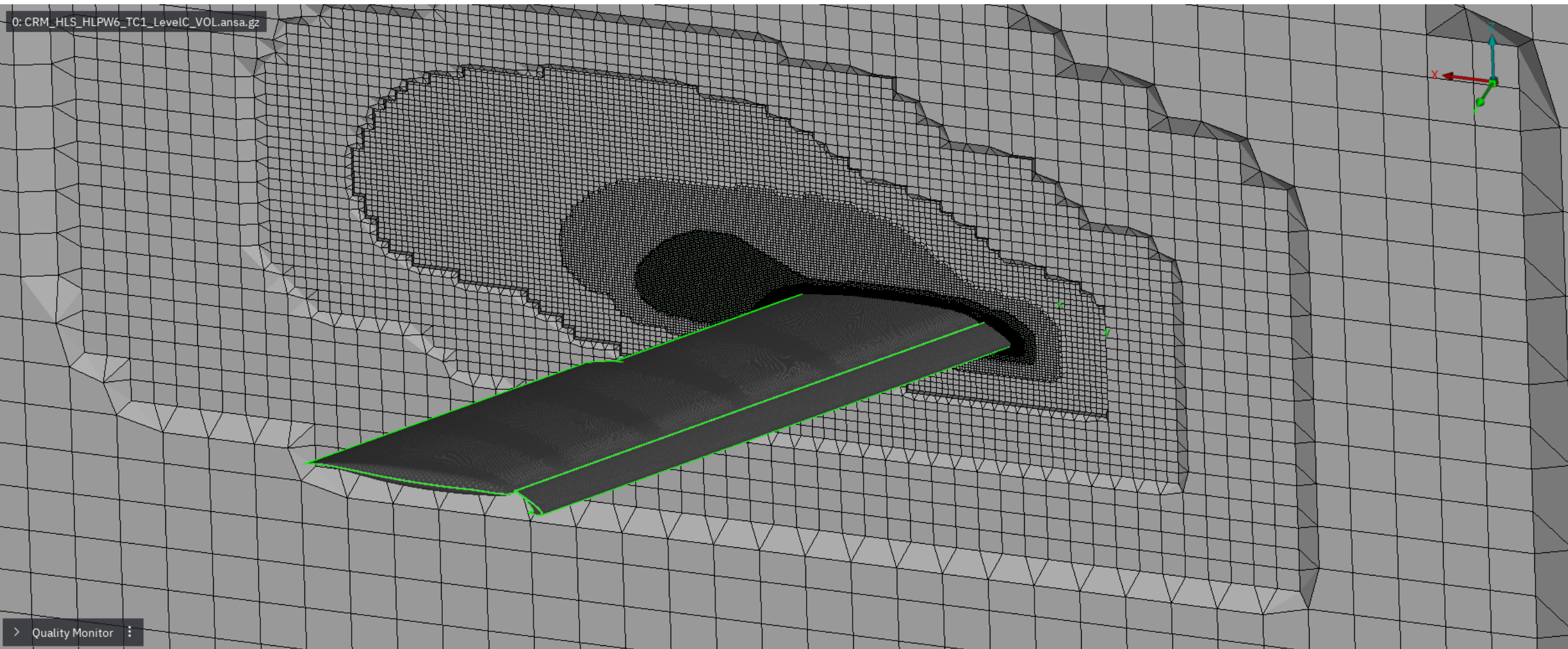
Preview of the Size Field used to refine the mesh



Surface mesh – Level C

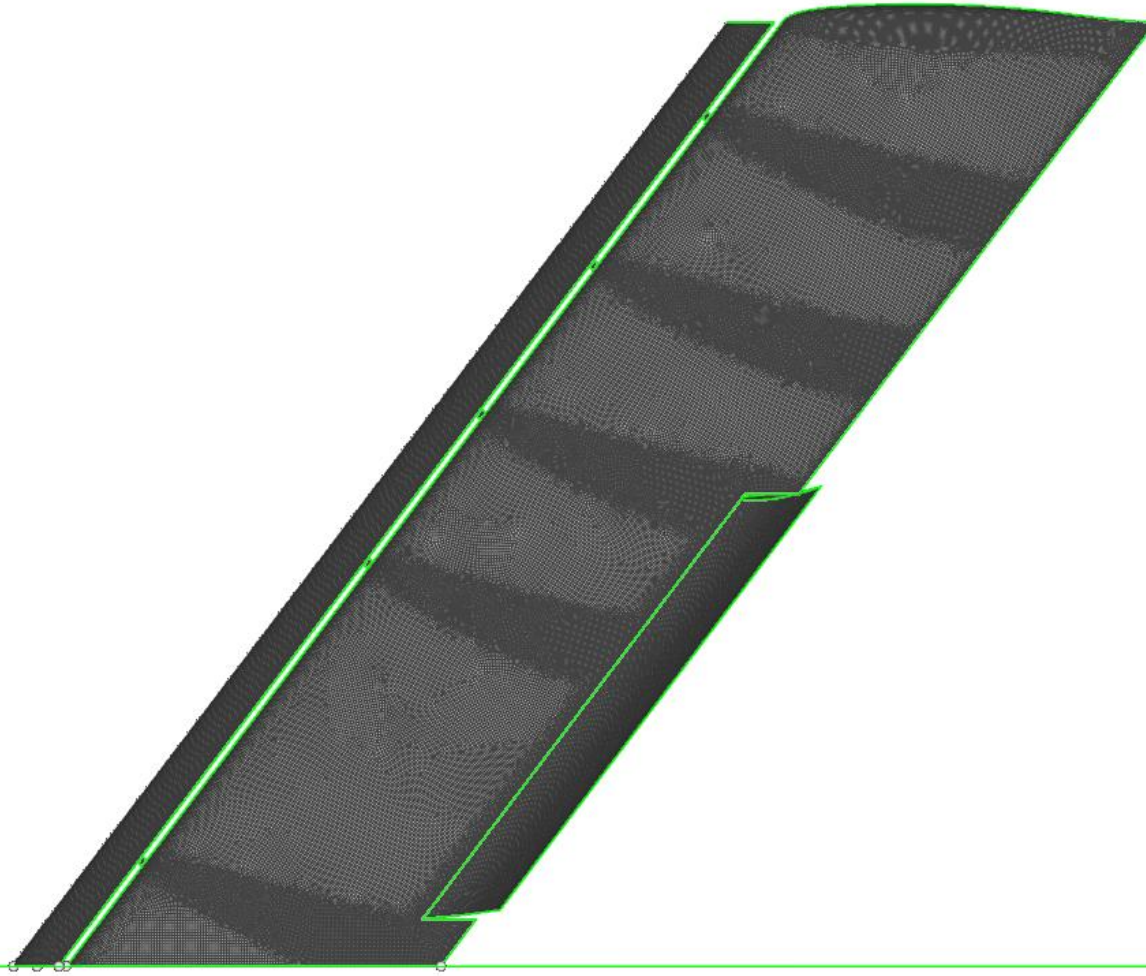
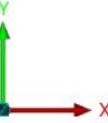


Volume mesh – Level C



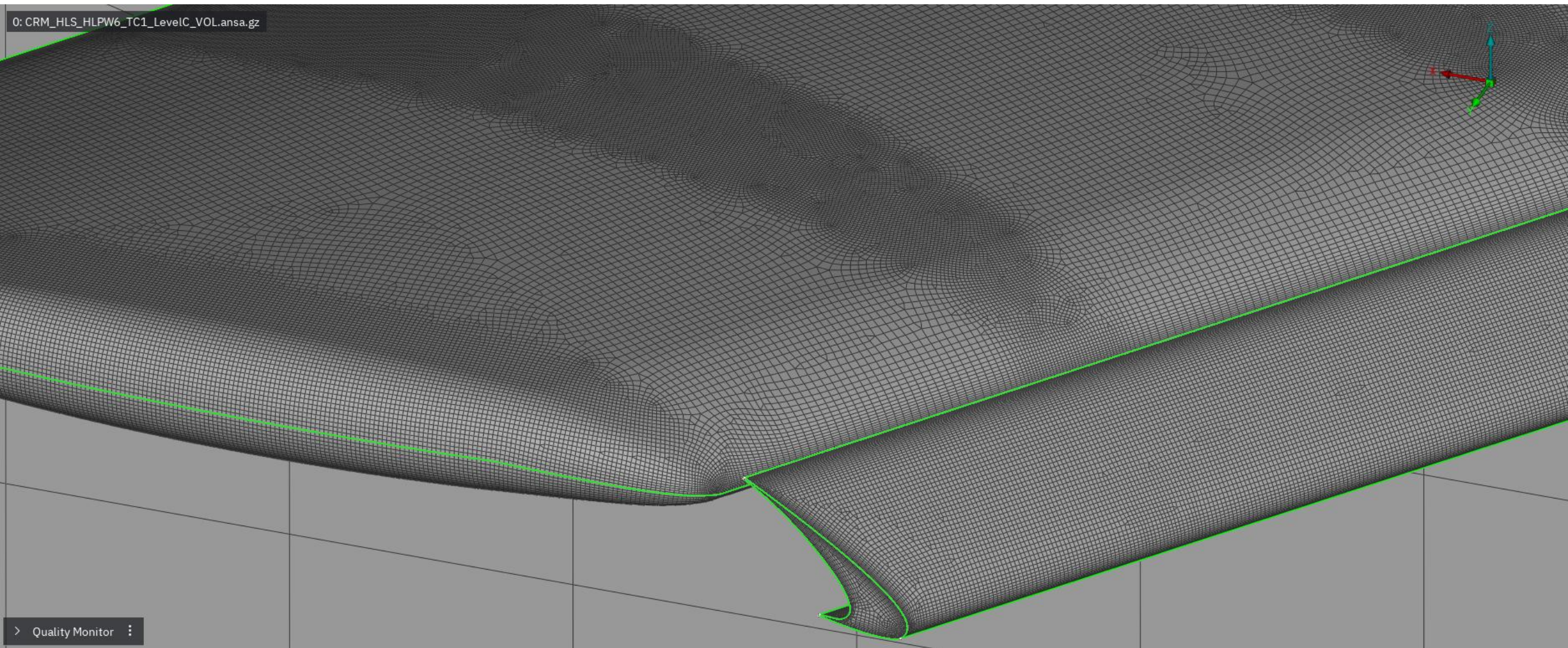
Surface mesh with refinement along slat bracket wakes

0: CRM_HLS_HLPW6_TC1_LevelC_VOL.ansa.gz

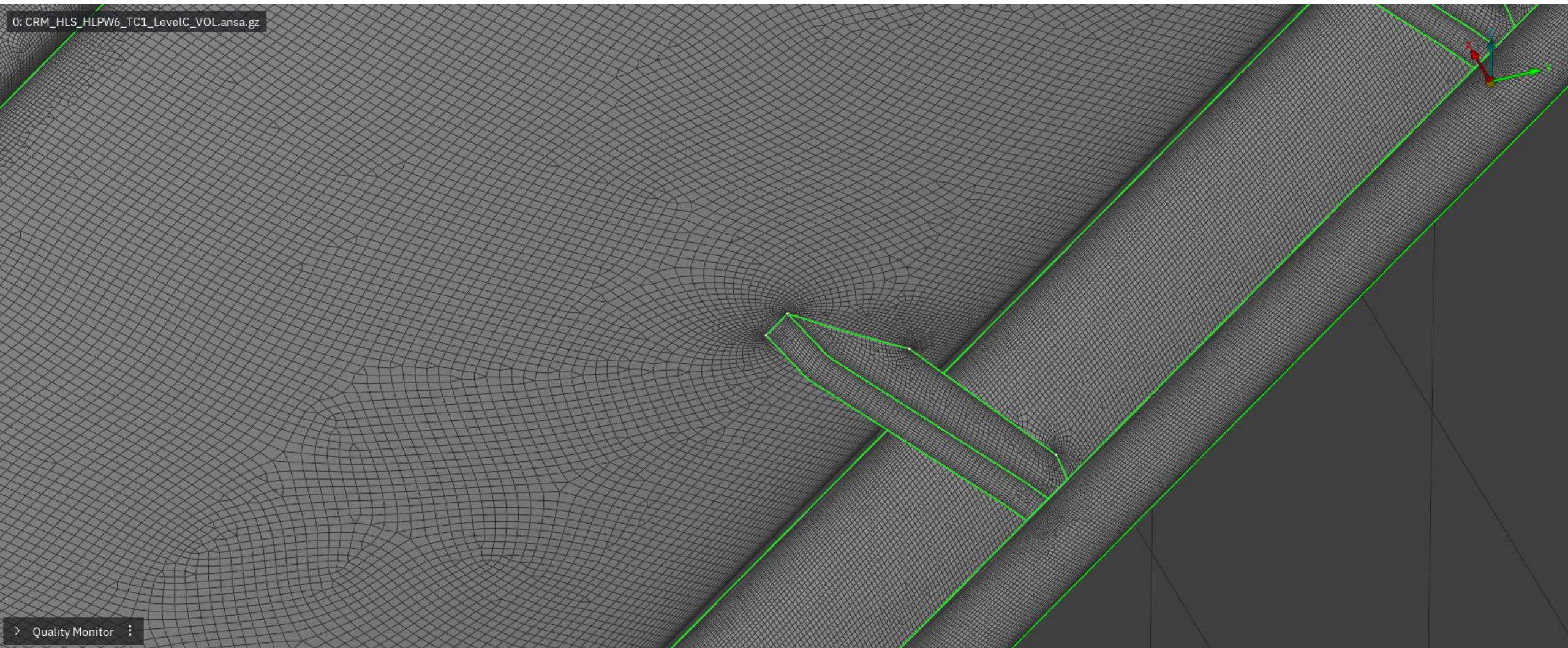


> Quality Monitor

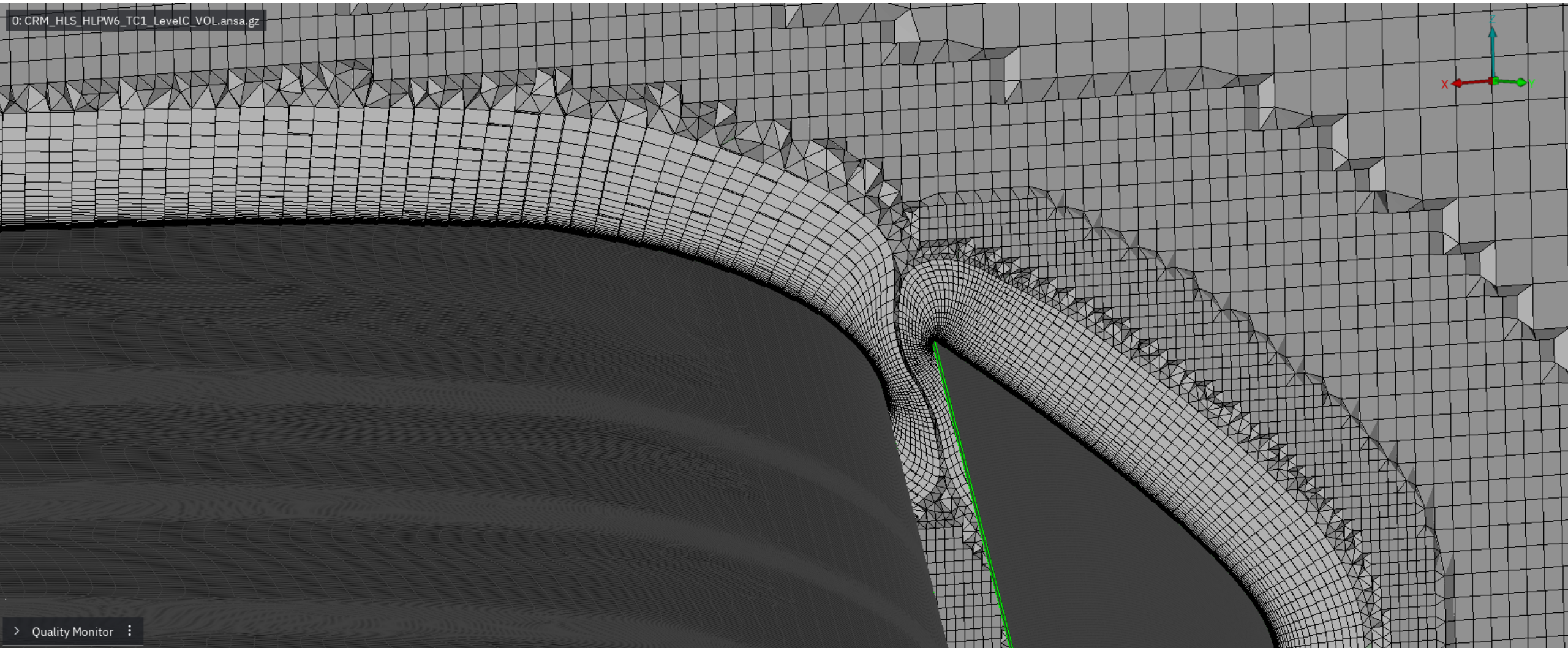
Surface mesh – Level C



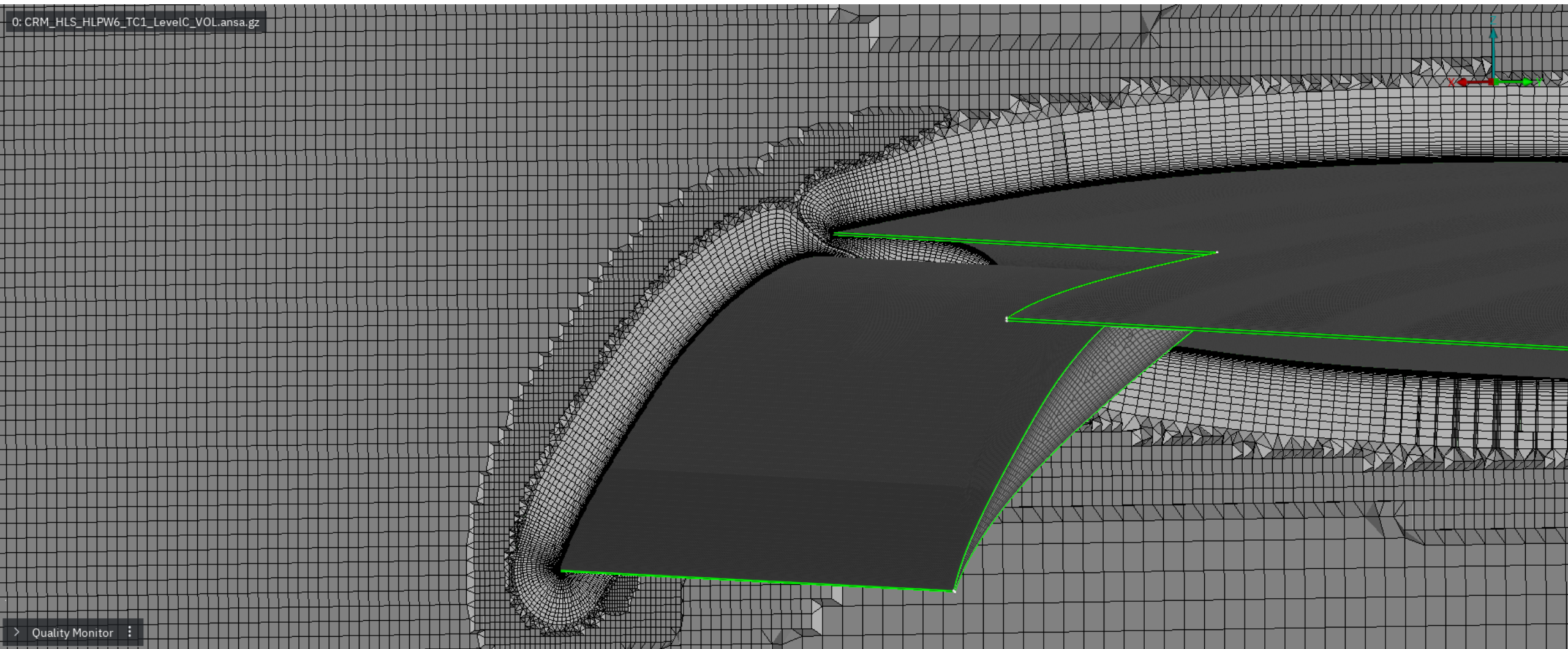
Surface mesh – Level C



Volume mesh – Level C



Volume mesh – Level C





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