



Industrial Engineering

Feasibility study of the current P3-ORION maintenance hangars to carry out future maintenance on **A400M aircraft** La Maestranza Aerea, Seville (Spain)

AIRBUS Military / Feasibility Study **Infrastructures (2011)**



This study consisted of analysing the situation of the existing infrastructure of the two P3-ORION hangars with a view to their possible use to maintain A400M aircraft, as well as proposing alternatives should they turn out to be unsuitable for the aircraft's requirements.

(Continued overleaf)





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Work phases

- Information gathering and data collection
- Drawing up the feasibility study
- Proposal for solutions

Scope of work

- Geometric siting verification of the A-400M aircraft
- Study of the building's suitability
- Study of the ancillary facilities' suitability

Proposal of technical solutions

- Extension of the hangar by adding 5 sections having a total height in the hangar's new section of 27m
- Dismantling of the hangar's façade
- Demolition of the hangar's existing access ramp and new access ramp for the enlarged hangar
- New sectionalised sliding door for the hangar
- Extension of workshop/office area
- New fire protection facilities defined according to the NFPA 409 Standard on aircraft with fuel
- Refurbishment of the hangar's low-voltage electricity installation
- New bridge crane with similar features as the existing crane to cover the hangar extension at a greater height than the rest to house the aircraft's tail section
- Installation of a lightning rod
- Refurbishment of the plumbing installation to provide water outlets to the hangar and new pits
- Refurbishment of the compressed air installation to provide outlets to the hangar and new pits
- Refurbishment of the voice and data installation to provide RJ-45 sockets to the hangar and new pits
- Enlargement of the lighting installation

