framatome

Manufacturing engineering services

Converting designs into reality in a predictable manner

Reducing technical, cost and schedule risks of your design before manufacturing starts.



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Challenge

Identify a qualified supplier capable of manufacturing components in compliance with design specifications and applicable construction codes. Establish reliable cost estimates, project schedules and risk mitigation plans based on realistic manufacturing assumptions.

Solution

As the first stage of our integrated manufacturing solution, Manufacturing Engineering transforms design specifications into a clear and executable industrial strategy. The resulting Manufacturing Compendium consolidates all key manufacturing, quality, procurement, planning and risk management requirements, providing a robust foundation for efficient project execution through:

Certified ISO 9001, 14001, 19443, 45001

- Expertise in major construction codes including ASME and RCC-M
- Manufacturing sequences optimized through iterative analysis, yielding cinemas for enhanced communication between stakeholders
- Identification of complex welding/surface treatments operations (buttering, cladding), recommendations as per construction code
- Identify at early stage any design aspects not manufacturable and jointly find a remedy, leading to the change in Design
- Access to Framatome's network of qualified and regularly audited suppliers.
- Propose a manufacturing compendium: a manufacturing program with procurement plan, cost estimate, delivery schedule, standard surveillance plan and register for most important risks & opportunities

Technical Information

Plant	Products
St Marcel	> 686 heavy components - Pressure vessels - Closure head - Steam Generators - Pressurizers - Main coolant lines - Internals (upper & lower)
Le Creusot	> 3000 castings & forgings
Jeumont	> 330 Reactor Coolant Pumps > 7,500 Control Rod Drive Mechanisms

Customer benefits

- High standards of safety, quality and regulatory compliance
- Proven engineering expertise from international nuclear and industrial projects
- Early design optimization to improve manufacturability
- Improved budget accuracy and project predictability
- Shorter lead times and enhanced Design-to-Cost performance
- Access to Framatome's qualified supply chain and manufacturing capabilities

Your performance
is **our** everyday **commitment**

Key figures

+ 45 years of manufacturing experience for the nuclear and any other industries

+ 106 reactors equipped with Framatome components across 11 countries

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