

# QUALITY MANAGEMENT MANUAL

Aubert & Duval

Index 2

## 0. LIST OF REVISIONS

Date	Index	Object
30/05/2023	0	Création
18/12/2023	1	Update quality organization + identity card steering authorities + ISO 19443 (§ 8.3 not applicable)
19/02/2024	2	Updating of process identity cards: P2, P3, P4, P5, P8 (changes are highlighted in yellow)

## SIGNATURES

Written by / Rédacteur(s) B. DELSUPEXHE	Verified by / Vérificateur(s) T. ROUAULT	Approved by / Approbateur(s) B. DURAND
Signature:	Signature:	Signature:

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# 1. PRESENTATION OF AUBERT DUVAL

A&D, a world leader in cutting-edge metallurgical solutions

Aubert & Duval at a glance: locations and key figures

**3 800**  
Employees

**14**  
sites

**553M€**  
Revenue in 2022

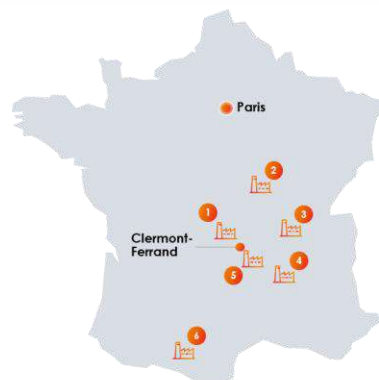
**Headquarters:** Issy-les-Moulineaux  
(Executive management, Finance & adm<sup>o</sup>, Strategy & marketing, communication, Sales)

**Tertiary sites:** Clermont-Ferrand  
(Operations, Quality, Technique, IS, HR, Export) ; ADEI (Belgaum, India: engineering and methods office)

## Industrial sites

- 1 Les Ancizes / EcoTitanium
- 2 Imphy
- 3 Heyrieux
- 4 Firminy
- 5 Issoire & Interforge
- 6 Pamiers
- A&D Spain
- SQuAD

## 9 PLANTS IN FRANCE



**+ 2 IN THE REST OF THE WORLD**  
(A&D Spain, SQuAD in India)

## Main markets

	AERONAUTICS AND SPACE	ENERGY	DEFENSE	SPECIALTIES MARKETS
Description	Structural parts, engine parts, landing gear parts, etc. Bulkheads, tank domes, etc.	Civil nuclear and land-based turbines	Nuclear submarines, artillery, missiles, surface ships	Medical, tools, other specialty products and additive manufacturing
Some of the company's products	Frames, slice joints, high- and low-pressure discs, turbine shafts etc.	Valve bodies, pump shafts, anti-vibration bars, discs, etc.	Large, medium and small caliber tubes, missile bars, nuclear reactor parts, etc.	Injector rods, transmission gears, medical applications, forged blocks, metal powders for additive metal manufacturing
Some of the company's customers				
Drivers	Commercial aviation, military applications and space exploration	Construction / extension of the operating life of existing power plants and decommissioning of facilities (incl. transportation, landfill) electricity consumption	Military programs	Underlying niche markets (e.g. motorsports, medical uses, etc.)
External A&D revenue (2022)	<b>63 %</b>	<b>30 %</b>		<b>7 %</b>

Aubert & Duval website : [Aubert & Duval](https://www.aubert-duval.com)

## 2. SCOPE

This Quality Management Manual applies to the French sites.

General scope of application:

**ISO 9001 / EN 9100 / AQAP 2110 D, excluding UKAD et ECOTITANIUM :**

DESIGN AND DEVELOPMENT OF MATERIALS GRADES, ENGINEERING, MELTING, ALLOYS REMELTING, MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING, MARKETING AND SALE OF METALLURGICAL PRODUCTS, OPEN AND CLOSE DIE FORGINGS, STAMPINGS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS.

ENGINEERING, MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING, MARKETING AND SALE OF METALLURGICAL PRODUCTS, OPEN AND CLOSE DIE FORGINGS, STAMPINGS IN TITANIUM AND ALUMINIUM ALLOYS. MANUFACTURING AND SALE OF ALL GRADE PRODUCTS OBTAINED BY POWDER METALLURGY.

DISTRIBUTION AND WAREHOUSING OF METALLURGICAL PRODUCTS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS.

MANUFACTURE OF TITANIUM ALLOYS INGOT.

INDUSTRIALIZATION, MANUFACTURING, INSPECTION, SALE, MARKETING AND INTERNAL TRANSFER OF TITANIUM ALLOY PRODUCTS. CUSTOM FORGING.

**EN9120 - HEYRIEUX :**

DISTRIBUTION AND WAREHOUSING OF METALLURGICAL PRODUCTS, OPEN AND CLOSE DIE FORGINGS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS.

**ISO 9001, EN 9100 - UKAD :**

INDUSTRIALIZATION, MANUFACTURING, INSPECTION, SALE, MARKETING AND INTERNAL TRANSFERT OF TITANIUM ALLOY PRODUCTS. CUSTOM FORGING.

**ISO 9001, EN 9100 - ECOTITANIUM :**

MANUFACTURE OF TITANIUM ALLOYS INGOT.

This Quality Management Manual defines all the measures implemented by AUBERT&DUVAL to meet the requirements of the quality standards for the sites and scope specified in the following table:

Site + address  <u>AUBERT &amp; DUVAL :</u>	Standards					Scope
	ISO 9001: 2015	EN 9100:2018 AS 9100:D JISQ 9100:2016	EN 9120: 2018 AS 9120:B SJAC 9120:A	AQAP 2110 D		
<b>AUBERT&amp;DUVAL Central fonction Issy-les-Moulineaux</b> 12, rue D'Oradour sur Glane 92130 Issy-les-Moulineaux France	x	x	x	x		CENTRAL FUNCTIONS. EXECUTIVE MANAGEMENT, ADMINISTRATIVE AND FINANCIAL, COMMERCIAL, FUTURE BUSINESSES, STRATEGY AND MARKETING. HUMAN RESSOURCES. COMMUNICATION. DESIGN AND DEVELOPMENT OF MATERIALS GRADES.
<b>AUBERT&amp;DUVAL Aubière</b> 14 allée Alan Turing 63170 Aubière France	x	x	x	x		SUPPORT FUNCTIONS. TECHNICAL, OPERATION, QUALITY AND PROGRES, HUMAN RESSOURCES, PURCHASING, INFORMATION SYSTEMS. DESIGN AND DEVELOPMENT OF MATERIALS GRADES.
<b>AUBERT&amp;DUVAL Les Ancizes</b> 1 rue des Villas BP 1 63770 Les Ancizes France	x	x		x		ENGINEERING, MELTING, ALLOYS REMELTING, MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING, MARKETING AND SALE OF METALLURGICAL PRODUCT, OPEN AND CLOSE DIE FORGINGS, STAMPINGS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS, TITANIUM ALLOYS. MANUFACTURING AND SALE OF ALL GRADE PRODUCTS OBTAINED BY POWDER METALLURGY. DESIGN AND DEVELOPMENT OF MATERIALS GRADES.
<b>AUBERT&amp;DUVAL Firminy</b> Rue de la Tour de Varan 42700 Firminy France	x	x		x		ENGINEERING, MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING, MARKETING AND SALE OF METALLURGICAL PRODUCTS AND OPEN AND CLOSE DIE FORGINGS IN ALLOYED AND STAINLESS STEELS.
<b>AUBERT&amp;DUVAL Heyrieux</b> ZI rue des Balmes 38540 Heyrieux France	x			x		MANUFACTURING, INSPECTION, MARKETING AND SALE OF METALLURGICAL PRODUCTS AND OPEN AND CLOSE DIE FORGINGS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS DISTRIBUTION AND WAREHOUSING OF METALLURGICAL PRODUCTS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS.
			x			DISTRIBUTION AND WAREHOUSING OF METALLURGICAL PRODUCTS, OPEN AND CLOSE DIE FORGINGS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS.
<b>AUBERT&amp;DUVAL Issoire</b> ZI du Piat 63502 Issoire - France	x	x		x		ENGINEERING, MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING OF METALLURGICAL PRODUCTS AND OPEN AND CLOSE DIE FORGINGS, STAMPINGS IN ALUMINIUM ALLOYS.
<b>AUBERT&amp;DUVAL Pamiers</b> 75 boulevard de la Libération 09100 Pamiers France  Laboratory: Plateforme technologique Delta sud - mod, 103 impasse Roland Garros , Verniolle, 09340, France	x	x		x		ENGINEERING, MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING, MARKETING AND SALE OF METALLURGICAL PRODUCT, OPEN AND CLOSE DIE FORGINGS, STAMPINGS, ROLLINGS IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS, TITANIUM AND ALUMINIUM ALLOYS.
<b>AUBERT&amp;DUVAL Imphy</b> Avenue Jean Jaurès 58160 Imphy - France	x	x		x		ALLOYS REMELTING, MANUFACTURING, INSPECTION, TESTING OF METALLURGICAL PRODUCT, OPEN AND CLOSE DIE FORGING IN ALLOYED AND STAINLESS STEELS, NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS. MANUFACTURING AND SALE OF ALL GRADE PRODUCTS OBTAINED BY POWDER METALLURGY.
<b>Interforge</b> ZI de la Maze - BP 75 63500 Issoire - France	x	x		x		MANUFACTURING, HEAT TREATMENT, INSPECTION, TESTING OF METALLURGICAL PRODUCTS AND OPEN AND CLOSE DIE FORGINGS, STAMPINGS IN NICKEL AND COBALT-BASED ALLOYS AND SUPERALLOYS, IN TITANIUM AND ALUMINIUM ALLOYS.
<b>UKAD</b> Lieu dit La Croix de Biolet RD 62 63780 ST GEORGES DE MONS France	x	x				INDUSTRIALIZATION, MANUFACTURING, INSPECTION, SALE, MARKETING AND INTERNAL TRANSFERT OF TITANIUM ALLOY PRODUCTS. CUSTOM FORGING.
<b>ECOTITANIUM</b> La Croix de Biolet RD 62 63780 ST GEORGES DE MONS France	x	x				MANUFACTURE OF TITANIUM ALLOYS INGOT;

Information on the legal status of these entities is available on :

<https://www.infogreffe.fr/>

Depending on the site, additional provisions (specific procedures and/or Quality Assurance Plans) are intended to take into account specific requirements, such as:

- Nuclear Industry standards: GSR Part 2 (IAEA), 10CFR21, RCC-M, NCA 3800 (ASME), NSQ-100, ISO 19443 (§ 8.3 not applicable), ...
- The NF IN ISO/CEI 17025 for our COFRAC-accredited laboratories
- The AS13100 aerospace standard for Aero Engine Design and Production Organizations
- AC7006, AC7101, AC7102, AC7108 and AC7114 for our special processes accredited by PRI NADCAP.

Quality Management commitments are effectively implemented through the processes listed in the mapping presented in Chapter 6 and described in Chapter 7.

For the nuclear market, specific provisions are described in the Nuclear Quality Manual.

The latest version of the Aubert & Duval Management Manual, which takes into account significant changes that may affect the effectiveness of the Quality Management System, in line with the strategic direction, is available to our customers and all interested parties on the following websites:

[Aubert & Duval](#)

### 3. QHSE POLICY

# POLICY

## Quality - Health & Safety – Environment

Aubert & Duval and its subsidiaries are a leading European company covering the entire value chain, from the **development of innovative and environmentally responsible materials** to the **production of semi-finished parts** for critical industrial markets, especially **aerospace, energy, defence and nuclear**.

Our corporate policy aims to **satisfy our customers, employees and shareholders** by making the **safety of our employees and our products** and the **fight against global warming** our top priorities, as well as **contributing to the national sovereignty**.

Our management system will reflect these priorities in our **quality, health and safety, environment policy**:

By relying on **process-based management**, a **risk prevention approach** and **compliance with benchmarks and internal and external standards**.

By strictly respecting **ethical behaviour** and the requirements and rules of the management system.

By seeking **excellence and zero defects** by developing a **spirit of continuous improvement** in all areas of the company.

By developing **exemplary management** by accepting the right to make mistakes and the need for transparency.

By ensuring the **involvement** of employees and their representatives.

#### Our QHSE objectives:

##### QUALITY

We are aware of the criticality of our products for aeronautical, energy, nuclear and defence applications. For this reason we are committed to implementing an ambitious **Quality policy** and to being **exemplary** in terms of **Safety** and **Quality**.

We work to develop and deliver **robust, high-performance products** that meet our customers' requirements.

To this end, all our activities are conducted in a **spirit of transparency, progress and risk management**.

##### HEALTH & SAFETY

The health and safety of all our employees, contractors and subcontractors is **our top priority**. We commit you to being concerned and **fully involved in the prevention and protection of your own and your colleagues' health and safety** at work.

We are working to develop a **safety culture** with the objective of **« zero accidents »**. We are also committed to working tirelessly on prevention and improving working conditions. We develop the policies, procedures and tools necessary for the continuous improvement of our performance.

##### ENVIRONMENT

We are committed to innovating, proposing and implementing **environmentally responsible production solutions**. We are committed to continuously improve our impact on the environment and natural resources, including through **recycling**.

We develop **the materials of the future** to help our customers achieve their **decarbonisation objectives**.



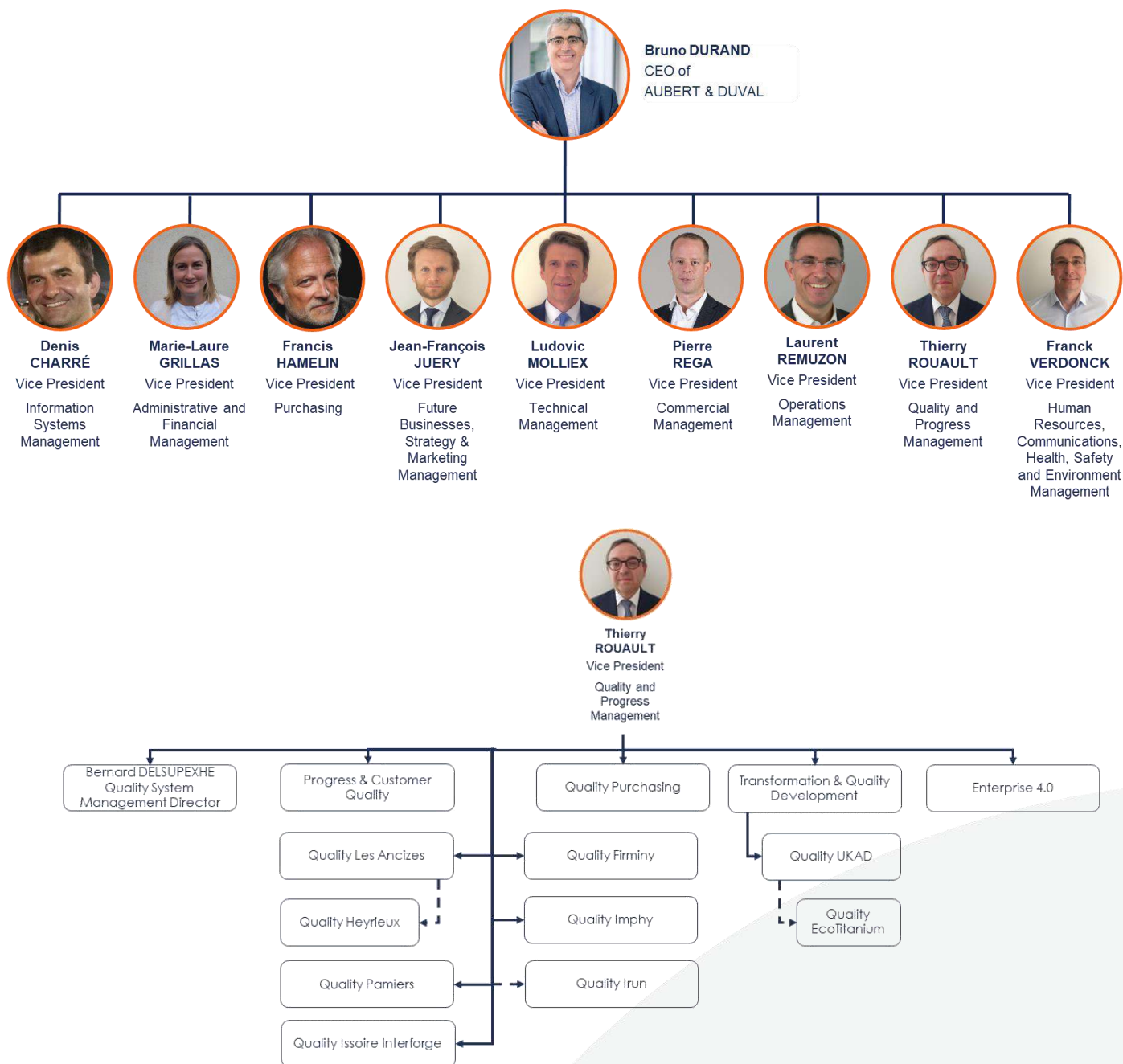
Bruno Durand  
CEO of Aubert & Duval  
May 2023



**The success of this policy depends on everyone's mobilization and commitment**



## 4. ORGANIZATION



Mr T. ROUAULT has been appointed as the Management representative within the meaning of the Quality guidelines.

## 5. COMPANY AUTHORITY

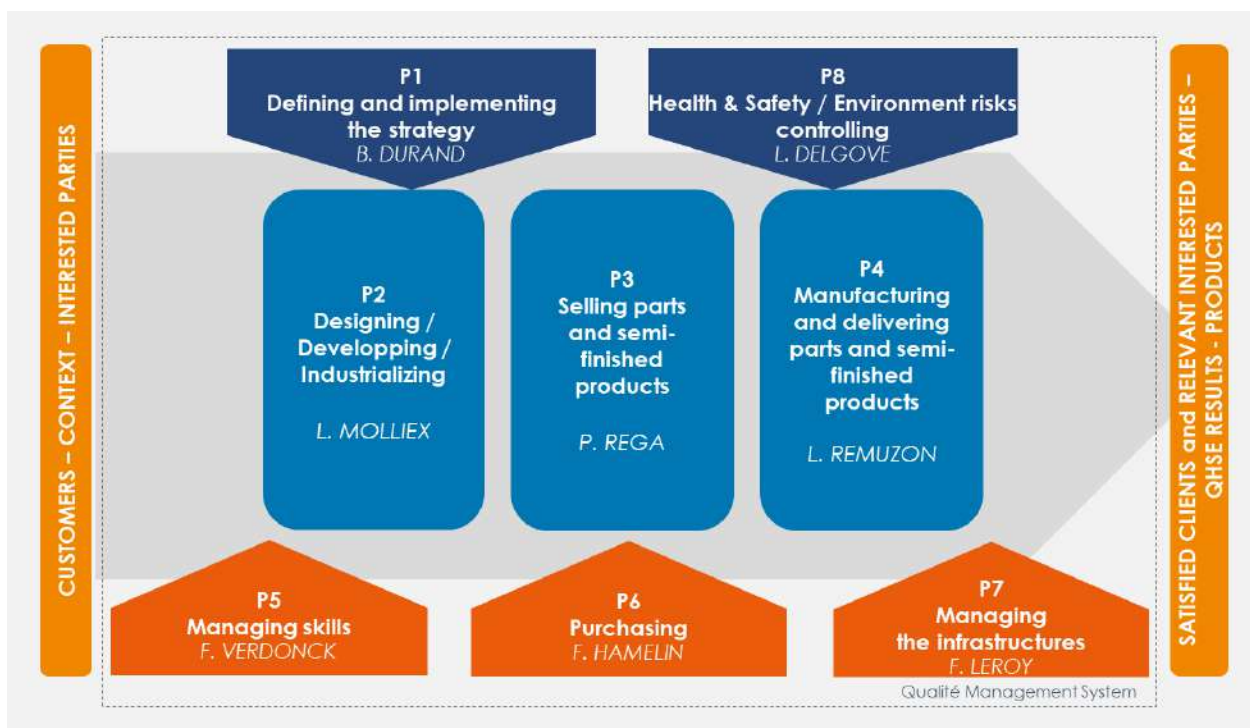
The system of delegated authorities defines the decision rules for the main commitment processes of the entities. The authorisation rules defined in the MAS (Company Authority Handbook) make it possible to establish commitment authorisations formalised by the authorised person(s) according to the planned activities and amounts.

## 6. PROCESSES MAPPING

Our management system is defined by 8 processes and their interactions.

Our processes are identified as follows:

- **2 Management process**  
P1: Defining and implementing the strategy  
P8: Health & Safety / Environment risks controlling
- **3 Realization process (our activity)**  
P2: Designing / Developping / Industrializing  
P3: Selling parts and semi-finished products  
P4: Manufacturing and delivering parts and semi-finished products
- **3 Support Process (resources for other processes)**  
P5: Managing skills  
P6: Purchasing  
P7: Managing the infrastructures

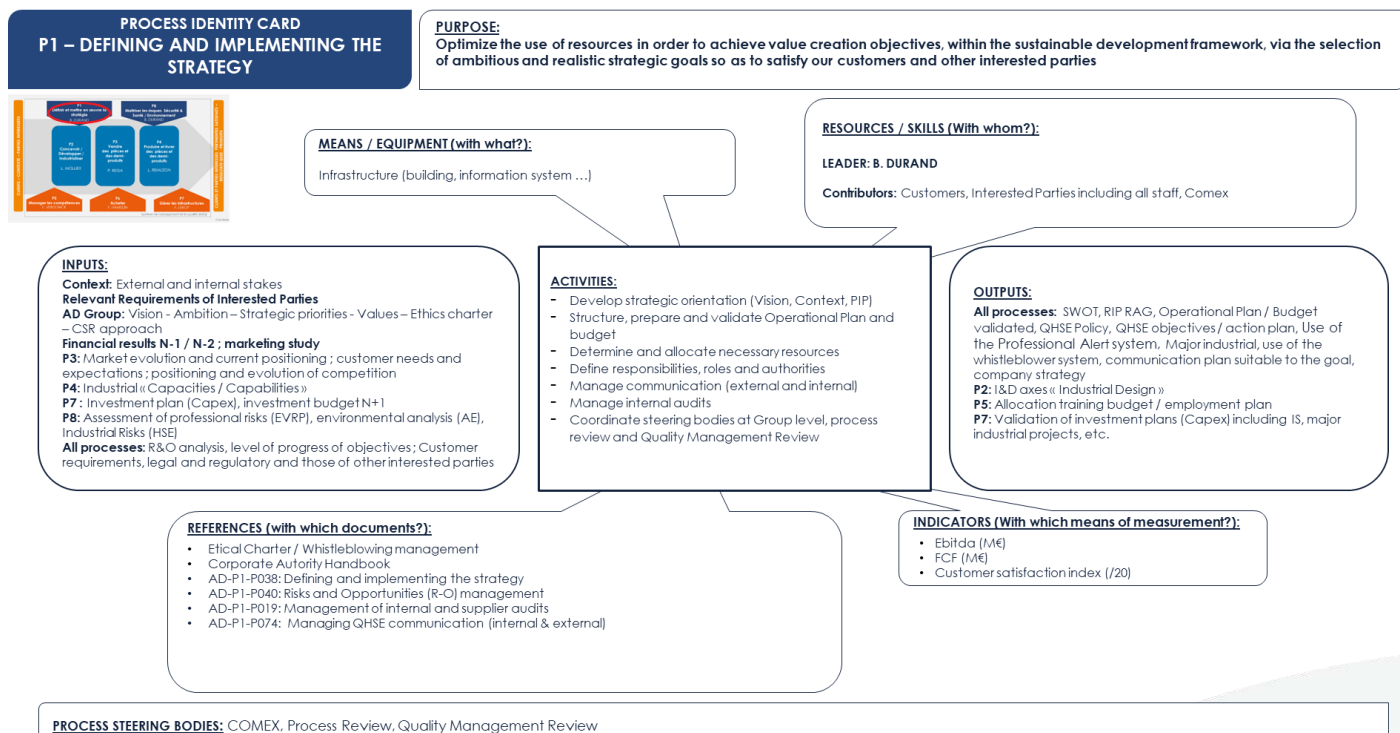


## 7. PROCESS IDENTITY CARD

Each process has an "identity card" with the following information:

- Its purpose,
- The steering bodies,
- The activities with input and output data,
- The means, resources, standards and indicators necessary for its proper functioning

Below is the "identity card" for each process:



## PROCESS IDENTITY CARD P2 - DESIGNING / DEVELOPING / INDUSTRIALIZING

### PURPOSE:

Design and development of materials grade  
Design (Process), develop, industrialize new products, processes, related services  
§ 8.3 ISO 19443 Not applicable



### MEANS / EQUIPMENT (with what?):

Infrastructure (buildings, information system ...), test equipment, design and simulation software ...

### RESOURCES / SKILLS (With whom?):

LEADER: L. MOLLIEUX

Contributors: COMEX, Multidisciplinary teams: Commercial, Financial, Technical Platform and Methods, Quality, Industrial, Maintenance, Procurement, Metallurgy Sector, R&D

### INPUTS:

**Customers:** Customer Specifications including special standards  
**P1:** SWOT, RIP RAG, validated Operational Plan / Budget, QSSE Policy, QSSE Objectives / Action Plan, Use of the whistleblower system, Available information, adapted communication plan on the company's purpose and strategy, Axes I&D  
**P3:** Need for innovation & development emanating from customers, Lessons Learned and legal and regulatory requirements  
**P4:** Customer complaint, quality anomaly  
**P8:** Requirements applicable to staff  
**Expert application files**

### ACTIVITIES:

- Innovation: portfolio of new development ideas
- Industrialization of new products:
  - Plan and execute the process development phases
  - Carry out design and validation reviews
  - Obtain customer approval
  - Validate life-cycle of series
- Manage changes in manufacturing processes (Process)
- Define areas of technical expertise and associated needs

### OUTPUTS:

**Customers:** initial samples, qualification report and customer approval  
**P3:** New processes / Custom-made products  
**P4:** Manufacturing documents (instructions, monitoring plan, operating method, ...); Manufacturing / control tools and NC programs, dissection plan  
**P6:** Procurement data  
**P7:** Expression of « investment » needs  
**Expert appointment letter**

### REFERENCES (with which documents?):

- AD-P2-P060: Managing of development projects
- AD-P2-P155: Managing industrialization projects according to the APQP
- AD/DQ-G018: Gestion des évolutions des procédés
- AD / DQ-P067: Management des caractéristiques Clés
- AD-DT-P016: Gestion des activités de R&D
- UKAD :**
  - P1-07: Industrialisation des produits
  - P1-05: Gestion des évolutions Produit et Process
- EcoTilanium :**
  - PQ08: Gestion de la configuration

### INDICATORS (With which means of measurement?):

- OTD **G6**: (%)
- **G8** meeting : (Number)
- **GEP**: (Number)
- **TRL4** (Technology Readiness Level 4): (Number)
- **Innovative Prospect Turnover (IM)**
- Expert Matrix Fill Rate : (%)

**PROCESS STEERING BODIES:** COMEX, Technical Steering Committee , Technical Management Committee , Meeting T/T+1, GAMT- Medium-Term Action Group, Expertise Committee meetings, Process Review

## PROCESS IDENTITY CARD P3 - SELLING PARTS AND SEMI-FINISHED PRODUCTS



### PURPOSE:

Achieve sales targets in order to attain sustainable turnover and expected profitability

### MEANS / EQUIPMENT (with what?):

Infrastructure (building, information system ...), storage area and handling equipment

### RESOURCES / SKILLS (With whom?):

LEADER: P. REGA

Contributors: Commercial, Technical, Finance, Quality Managements, Industrial Operations Management, Legal Department

### INPUTS:

**Customers:** Tender / Customer Order, defined requirements, portals, standards, complaint  
**Finance Management:** Credit Management / Credit Insurance  
**P1:** SWOT, RIP RAG, validated Operational Plan / Budget, QSSE Policy, QSSE Objectives / Action Plan, Use of the whistleblower system, Available information, adapted communication plan on the company's purpose and strategy  
**P2:** New products  
**P4:** Tonnages and/or Parts Shipped and invoiced, Completed customer complaint file, "Customer Scorecard" action plan

### ACTIVITIES:

- Process all consultation queries (tender or not)
- Analyze feasibility, function, risks, value and establish an offer
- Process orders and contracts (ARC)
- Record customer complaint and send reply
- Archive customer files
- Measure and analyze customer satisfaction / Processing "customer performance" analyses (Scorecard)

### OUTPUTS:

**Customers:** Offer / Contract / AR Order ; Response to complaint  
**Finance Management:** Material coverage  
**P1:** Customer Satisfaction Survey carried out  
**P2:** Need for innovation & development  
**P4:** S&OP data; order for production planning ; Request for processing of complaint / Customer Scorecard

### REFERENCES (with which documents?):

- AD-P3-P039: Review of proposals, contracts or orders, including their amendments
- AD-P3-P059: Transfer of defence-related products, export of war materials, related materials and dual-use goods
- AD/DC-P083: Measuring customer satisfaction

### INDICATORS (With which means of measurement?):

- **Budget achievement rate (ME)**
- **Achieved contributive margin (%)**
- **Rate of Overdue** (%)

**PROCESS STEERING BODIES:** COMEX, Process Steering Review, Process Review

## PROCESS IDENTITY CARD P4 - MANUFACTURING AND DELIVERING PARTS AND SEMI-FINISHED PRODUCTS



### PURPOSE:

Ensure commitment to customers by guaranteeing the production of a product, compliant in terms of: time, quality and quantity

### MEANS / EQUIPMENT (with what?):

Infrastructure (buildings, information system ...), measuring and testing equipment, tools, production facilities, self-propelled carts, cranes

### RESOURCES / SKILLS (With whom?):

LEADER: L. REMUZON

Contributors: COMEX, Site Management, Supply Chain, Quality, Process, Maintenance, Producer, Operational Excellence, Purchases

### INPUTS:

**P1:** SWOT, RIP RAG, validated Operational Plan / Budget, QSSE Policy, QSSE Objectives / Action Plan, Use of the whistleblower system, Available information, adapted communication plan on the company's purpose and strategy  
**P2:** Manufacturing documents (instructions, monitoring plan, operating method, ...); Manufacturing / control tools and NC programs, dissection plan  
**P3:** SOP data, order - Request for complaint processing / Customer scorecard  
**P6:** Products, materials, supplies, services received  
**P7:** New equipment and capable machines

### ACTIVITIES:

- Plan production (S&OP/MPS); launch MO (manufacturing orders)
- Manufacture and products inspection
- Manage and plan subcontracted production activities
- Manage shipping and invoice
- Validate and monitor special processes
- Process complaints / Deviations / NOE / Customer Scorecard
- Improve Q/C/D

### OUTPUTS:

**Customers:** request for deviation and NOE  
**P1:** Quality reporting  
**P3:** Tonnages and/or Parts Shipped and invoiced; completed customer complaint file; "Customer Scorecard" action plan  
**P7:** Expression of needs (investment)

### REFERENCES (with which documents?):

- AD-P4-P122: Supply Chain Principles and Organisation
- AD-P4-P075: Qualification and certification for NDT personnel in accordance with NFEN ISO 9712
- AD-P4-P034: Certify NDT personnel according to EN 4179 AND NAS410
- AD-P4-P065: Processing of quality escape

**Sites:** Procedures, production standards, MO, instructions, checklist ....

### INDICATORS (With which means of measurement?):

- Service Rate - OTIF (%)
- Scrap **A&D** (% of Turnover)
- Complaints **A&D** (number / month or %)
- Delay **(I/M)**
- Inventory and work-in-progress **(I/M)**

**PROCESS STEERING BODIES:** COMEX, Operation CODIR, Plant Performance Review, PIC, Process Review

## PROCESS IDENTITY CARD P5 - MANAGING SKILLS



### PURPOSE:

To make available competent and committed human resources in order to contribute to the performance of the company and the satisfaction of our customers

### MEANS / EQUIPMENT (with what?):

- Infrastructures (buildings, workspaces and work life ...)
- Training actions and training organizations
- HRIS
- Recruitment firms
- HR and social engineering consultants
- Temporary work agency

### RESOURCES / SKILLS (With whom?):

LEADER: F. VERDONCK

Contributors: COMEX, Talent Department, Social Development Department, HR network, Communication Management, Team Development Department, Cataroux HR, staff, Occupational Health Service, Expertise Committee

### INPUTS:

**Labour regulations, collective agreements**  
**P1:** SWOT, RIP RAG, validated Operational Plan / Budget, QSSE Policy, QSSE Objectives / Action Plan, Use of the whistleblower system, Available information, adapted communication plan on the company's purpose and strategy  
**All HR processes:** job description, Organizational chart, annual appraisal interviews, career interviews, competency frameworks, training needs, salary evaluations  
**Training:** ethics, quality, safety, environment,  
**Social Climate Observatory Survey**

### ACTIVITIES:

- Manage the evolution of the workforce and target organizations
- Manage the Employment and Expertise Plan management system
- Recruit and integrate required profiles
- Manage skills development
- Manage the Expertise Convention and the "expertise" business line
- Organize and implement internal mobility, career plans and succession schemes
- Implement employee training actions
- Manage compensation and benefits
- Managing the social climate

### OUTPUTS:

**All processes:** competent personnel in term of QHSE  
Job descriptions  
Skills assessments  
Skills mapping  
Employment contract  
Skills development plan  
Staff points, managerial staff review, succession plans, Salary review  
Collective agreements  
Social climate favorable to employee performance

### REFERENCES (with which documents?):

- AD-P5-P153: Employees onboarding
- AD-P5-P051: Manage the Expertise Convention
- AD-P5-P053: implementing the "quality training process"

### INDICATORS (With which means of measurement?):

- Total staff (Number)
- Total Payroll (k€)
- Absenteeism (%)
- Turnover (%)
- Resignation rate (%)
- Training: hours
- Training, presenteeism rate (%)

**PROCESS STEERING BODIES:** COMEX, HR Meeting, Process Review



## PROCESS IDENTITY CARD P6 - PURCHASING

### PURPOSE:

Guarantee a panel of high-performance suppliers which enables the procurement of products and services that meet our requirements in terms of Quality, Cost and Time

### MEANS / EQUIPMENT (with what?):

Infrastructure (building, information system ...)

### RESOURCES / SKILLS (With whom?):

LEADER: F. HAMELIN

Contributors: Product Application, Finance, Quality, Industrial, Process, Buyers, Platforms, New works

### INPUTS:

All processes: Need for new « critical suppliers / products » (Competitive tendering ...)

P1: SWOT, RIP RAG, validated Operational Plan / Budget, QSSE Policy, QSSE Objectives / Action Plan, Use of the whistleblower system, Available information, adapted communication plan on the company's purpose and strategy

P2: Purchase data (new products / projects)

P4: Net needs (Example MRP...)

P7: Investment file

Suppliers: Products, raw materials, supplies, services ....: Quotation

### ACTIVITIES:

- Find and Approve a new supplier
- Order / Supply / acceptance of products, materials, supplies and services
- Process Supplier complaints
- Evaluate Supplier (time, quality, cost, identification, logistical capacity)
- Optimize purchase costs
- Audit of suppliers
- Optimize risk management

### OUTPUTS:

All processes: Lists of approved suppliers ; Supplier complaints cleared ; Make available to internal customers ; Supplier quotation and performance results (quotation sheets, Monitoring Supplier's Time-Quality for critical products and Supplier Quality Assurance Purchase Action Plans)

Suppliers: Order / contract ; Supplier quotation results

### REFERENCES (with which documents):

- AD-P6-P154: Purchasing
- AD-P6-P002: Purchasing
- AD-P6-P016: Suppliers evaluation, approval and performance measurement management
- AD-P6-P017: Standard acceptance procedure at Aubert & Duval
- AD-P6-I003: Suppliers General requirements
- AD-P6-I004: General requirements applicable to carriers of Aubert & Duval
- AD-P1-P019: Managing quality audits
- AD-P6-P042: Processing supplier anomalies
- AD-P6-P064: Supplier operational risk analysis
- AD-P6-I012: General nuclear quality specification for suppliers
- AD-P6-I021: Measuring critical's supplier performance
- UKAD/ECOTITANIUM : site procedures

### INDICATORS (With which means of measurement?):

- Internal Customer Satisfaction rate (%)
- Quality and Service Rate critical suppliers of critical MP, STP & DP (%)
- On time delivery Rate of Critical Suppliers MP, STP & DP
- P&L saving purchase (M€)
- Cost evitment saving (M€)

PROCESS STEERING BODIES: COMEX, Performance review Category Purchasing Manager (CPM) ,CODIR A&D Purchasing, Supplier performance review, Process review

## PROCESS IDENTITY CARD P7 - MANAGING THE INFRASTRUCTURES

### PURPOSE:

To ensure the availability and adequacy of the infrastructure (building, equipment, software, hardware or machinery) to the current and future needs of the A&D by :

1. control of production equipment and infrastructure
2. control of information systems (IS).
3. construction and implementation of the investment plan.

### MEANS / EQUIPMENT (with what?):

Infrastructure (building, information system ...), plans, Autocad, ...

### RESOURCES / SKILLS (With whom?):

LEADER: F. LEROY

Contributors: COMEX, Site Management, New works and external engineering, Multidisciplinary teams: Commercial, Products Application, IT, Quality, Industrial, Maintenance, Process, Purchase, SST, ST, Energies, Operational Excellence

### INPUTS:

All processes (activity 2): IS needs and problems in use

P1 (activity 1, 2, & 3): SWOT, RIP RAG, validated Operational Plan / Budget, QSSE Policy, QSSE Objectives / Action Plan, Use of the whistleblower system, Available information, adapted communication plan on the company's purpose and strategy

P4 (activity 1): activities and performance of the machines; Investment plan (Capex) including IS, Major industrial and commercial projects

Activity 3:

- P2, P3, P4: Expression of needs
- P8: Expression of needs, applicable regulatory requirements

### ACTIVITIES:

1. control of production equipment and infrastructure:
  - management of preventive and corrective maintenance
  - management of spare parts and tools
  - equipment reliability
2. control of information systems (IS):
  - development of IT functionality and solutions with regard to the target processes
  - maintenance of IT infrastructures
  - securing information
3. construction and implementation of the investment plan:
  - Ensure Technological watch
  - Identify and validate projects
  - to manage the projects

### OUTPUTS:

All processes (activity 1&2): operational infrastructure (building, IS, production equipment, etc.)

Activity 3:

P1: Investment plan (Capex), investment budget N+1, Industrial Risk (machine breakdown)

P4: New equipment and capable machines

P6: equipment specifications, general technical specifications; meetings with potential suppliers

### REFERENCES (with which documents?):

- AD-P7-P143: Request for investment (DAE)
- AD-P7-P033: Information System Management
- AD-P7-P035: Management industrial investments requests
- AD-P7-P041: Managing and controlling a project

### INDICATORS (With which means of measurement?):

1. control of production equipment and infrastructure:
  - Unavailability rate for "strategic equipment" (%) / Site
  - Maintenance maturity level (score : /5) / Site
2. control of information systems (IS):
  - Depth of the incident backlog (Nbr. ticket)
  - Application downtime (hours)
  - Industrial protection compliance / Site (scoring criteria)
3. construction and implementation of the investment plan:
  - CAPEX disbursement "achieved / planned" (%) : global / structuring

PROCESS STEERING BODIES: COMEX, Structuring Steering Committee Project, Process Review

