



GENERAL SPECIFICATION SUPPLY

(DS 7-03)

1	Purpose	2
2	References	2
3	Applicability	2
4.1	Access to the plant	2
4.2	Confidentiality	2
4.3	Sub-supplying	3
4.4	Warranty	3
5	Quality provisions	3
5.1	Counterfeit part	3
5.2	FOD (foreign objects)	3
5.3	Supplier organization.....	4
5.4	Traceability management.....	4
5.5	Documentation management and storage	4
5.6	Change management.....	4
5.7	Management of supplyings.....	4
5.8	Production process control.....	5
5.8.1	Control and testing instruments.....	5
5.9	Management of Non Conforming Products	5
6	Shipment.....	7
7	Additional requirements for suppliers of machining and special processes.....	8
7.1	Validation of special processes.....	8
8	Additional requirements for raw material suppliers.....	9
9	Supplier monitoring.....	9

1 Purpose

The purpose of this document is to

- define the requirements that Turbine Blades Suppliers must meet to ensure product quality and service reliability;
- establish the general conditions of supply.

2 References

STANDARD UNI EN ISO 9001

STANDARD AS EN 9100

D.Lgs.81/2008 and s.m.i.

3 Applicability

This Supply Agreement is referred to in the purchase order and forms an integral part of it. The contents of the Supply Agreement therefore constitute contractual conditions from which the obligation of application derives. Suppliers must consider the contents of the Supply Agreement to be binding for the products/services pertaining to them.

The valid version of this document is available on the Turbine Blades website (www.turbineblades.it).

The applicability of any contractual conditions of the supplier in the purchase/supply relationship (including printed or added notes in the supply documents that are contrary to or differ from the contents of this document) is expressly excluded unless they are agreed with Turbine Blades and accepted in writing.

The supplier is obliged to transfer to its suppliers the applicable requirements contained in this document.

4 General Clauses

4.1 Access to the plant

The supplier has the obligation to allow access to its own facilities and those of any subcontractors, staff and Customer Representatives of Turbine Blades and the relevant authorities, both for the evaluation of the organization and business processes, and for the verification of compliance with the requirements of the products/services provided.

4.2 Confidentiality

All information, of whatever nature, transmitted by Turbine Blades to the supplier, relating to products and activities made by Turbine Blades, transmitted in written, electronic, graphic or tangible form (including, but not limited to, printed, models, technical data, sample...). If in oral or visual form, must be considered and treated by the supplier as confidential and property of Turbine Blades which prohibits its use, reproduction and disclosure to third parties without express written permission.

4.3 Sub-supplying

The supply may not be fully or partially further contracted without prior written permission of Turbine Blades. In any case it is the responsibility of the supplier to transfer to its suppliers the applicable requirements required by Turbine Blades.

4.4 Warranty

The supplier is responsible for the quality of the supply.

The supplier, in accordance with art. 1490 of the Italian Civil Code guarantees the contractual goods delivered / delivered as fully compliant with the agreement and, in any case, free from defects.

5 Quality provisions

5.1 Counterfeit part

Is an unauthorized copy, imitation, replacement or modified part (for example, material, part, component), which is consciously made as an original part.

NOTE: Examples of a counterfeit part may include, but are not limited to, false identification of marking or labeling, grade, serial number, date code, documentation or performance characteristics.

Prevention of Counterfeit Parts

The supplier must demonstrate that it has planned, implemented and controlled processes, appropriate to the organization and the product, to prevent the use of counterfeit or suspected counterfeit parts and their inclusion in the product or products delivered to the customer.

NOTE: The processes for preventing counterfeit parts should be considered:

- the training of people in the prevention of counterfeit parts;
- the application of a monitoring program;
- controls for the purchase of externally supplied products from original or authorized manufacturers, authorized distributors, or other approved sources;
- requirements to ensure traceability of parts and components to their original or authorized manufacturers;
- verification and testing methods to detect counterfeit parts;
- monitoring of counterfeit parts reported by external sources;
- quarantine and reporting of suspected or detected counterfeit parts.

5.2 FOD (foreign objects)

The FOD is defined as any article or substance, extraneous to the parts produced as a result of inaccurate work operations and/or handling performed in insufficiently clean and tidy working environments, which could potentially cause damage.

Prevention of FOD

The supplier must demonstrate that it has identified and assessed the possible causes of FOD within its organization and that it has trained personnel on prevention and proper management of FOD.

5.3 Supplier organization

The supplier must demonstrate that it is structured according to a system that ensures the conformity of the products and/or services provided. The adoption of an ISO 9001 and 9100 quality system for the aviation sector is highly desirable.

5.4 Traceability management

It is the supplier's responsibility to ensure complete traceability of the supply.

5.5 Documentation management and storage

The supplier may not make changes in any form to the documentation submitted unless approved in writing. For any clarifications on the documentation, the supplier must refer explicitly to the technical department of Turbine Blades.

It is the supplier's responsibility to request the Turbine Blades department that has taken care of sending any missing documents mentioned in the order, in the DDT or in other documents already transmitted before the start of the activity foreseen in the supply.

The supplier is also obliged to check that the available documents are in the revision status referred to in the order.

The documentation transmitted by or produced for Turbine Blades must be archived in a suitable manner to protect it from deterioration, damage or loss.

Documents and records relating to Turbine Blades products or activities, unless otherwise agreed, must be kept for a period of not less than 10 years and, therefore, made available at the request of Turbine Blades, its Customers or the Competent Authorities.

If the supplier wishes to eliminate documents relating to the products supplied to Turbine Blades, after a period shorter than that requested he must make a formal written request.

5.6 Change management

Supplier is not allowed to make any changes affecting the production processes related to products or services provided to Turbine Blades without the prior written permission of the latter.

Likewise, Supplier is not allowed to make any changes to:

- documents transmitted by Turbine Blades
- documents and records related to the activities, products or services requested by Turbine Blades

If changes are authorized, they must be documented; moreover, evidence must be provided to Turbine Blades that the results have been evaluated to confirm that the effect has been achieved without detrimental effects on the quality of the product/service.

5.7 Management of supply

The supplier, in supplying materials, products or services necessary for the production activities must:

- to use only suppliers from these considered suitable (according to defined methods of selection and choice of the supplier, evaluation and qualification),
- transmit to its suppliers the requirements of Turbine Blades and its customers, where applicable;
- maintain the records that prove the conformity of what has been supplied.

In any case, the supplier is responsible for the quality of all the products/services supplied.

5.8 Production process control

The supplier must plan and carry out the production activities under controlled conditions, in order to guarantee the identification and traceability of the product/service for the entire duration of the production process.

The production process must be supported by:

- Procedures that define the production methods;
- methods of approval of the processes and resources used;
- definition of processing criteria through the drafting of production cycles, where possible, and other information describing the characteristics of the product/service (drawings, specifications, photos, operating sheets);
- use of equipment and machines suitable for the execution of the processes;
- availability of monitoring and measuring instruments;
- records that allow to establish the conformity of the parts;
- identification and separation of non-conforming products;
- evidence that all processing and control operations have been completed.

The supplier must carry out all the necessary controls to verify the compliance of the parts with the drawings and quality specifications and document them with the help of appropriate registration forms. Where required by the Quality Control area, the supplier must provide the following documented controls:

- Carrying out and registration of FAI (First Article Inspection) for the first piece made of a new aeronautical and industrial part (in this second case where expressly requested) and identification of the part being inspected; the inspection documentation must always be sent together with the batch.
- Checking and recording, on board or on a copy of the drawing, of all the machined dimensions of the first piece produced of each batch and identification of the piece to be checked;
- All control records must be performed with forms delivered by Turbine Blades or with supplier's documents, provided they are clear and easily understandable, however agreed with Turbine Blades technical and quality department.

5.8.1 Control and testing instruments

The supplier shall have adequate monitoring, measurement and control equipment to demonstrate the compliance of the products/services with the requirements.

The monitoring and testing instruments must have accuracy and stability characteristics in accordance with the measurements to be performed. The measuring and control devices must be calibrated at periodic intervals against samples referring to national or international standards and records must be maintained to demonstrate that they have been checked.

If the supplier does not have adequate means of control to examine certain characteristics, he must promptly inform the Technical and Quality Department of Turbine Blades to define the most appropriate measures. It is the responsibility of the Turbine Blades Quality System Manager to verify at the supplier's premises the internal methods of management and execution of controls and tests.

5.9 Management of Non-Conforming Products

The supplier is responsible for the qualitative and quantitative compliance of the supply.

In case of quantitative non-compliance, Turbine Blades reserves the right to:

- reject any quantities that are in excess or the entire shipment/performance resulting non-compliant and to reshipment at the supplier's expense and risk if the supplier does not provide for immediate collection;
- require the supplier to provide for the timely delivery of the missing quantity at its own expense.

The supplier of mechanical processing and special processes that find any non-conformities during production is required to give immediate notice to allow, where possible, any reintegration to ensure the completeness of the batch and compliance with delivery times. Non-conforming parts must be identified and segregated awaiting instructions from the Quality Control Area of Turbine Blades.

For working/treatment of materials supplied by Turbine Blades, any lack of material found by the supplier with respect to what is reported in the accompanying documents must be communicated during the acceptance phase and in any case before production; in the absence of communication, any missing parts will be equated to non-conforming products (waste).

Should the supplier find a non-conformity of the supply after delivery, he is required to notify Turbine Blades at the same time as it is detected.

The supplier shall be obliged to indicate non-conforming parts (rejects or concession parts) in the DDT.

The supplier must ensure that non-conforming products are properly identified to avoid unintended delivery or use.

For any external work/treatment, the supplier must use identification tags containing the following information:

- production order number,
- description of the detail,
- Requisite/characteristic recalled in the drawing,
- non-compliance detected,
- rejection indication,
- concession application number where present.

It is advisable to document each problem in the best possible way, possibly attaching photos. Under no circumstances is it allowed to send reported/recoverable products to Turbine Blades without prior written authorization (evaluation of the concession application).

All non-compliant and reported products must be separated from the rest of the batch being shipped. The Technical Office provides the technical analysis of the N.C.

The supplier who is notified of a non-conformity is required to respond in writing within 10 working days of receipt of the same. The supplier is obliged to start an analysis of the causes of the non-conformity and to identify solutions to avoid its repetition.

For non-compliant products/services Turbine Blades may include administrative charges.

Any non-conformities due to an incorrect mode of packaging carried out by the supplier/transport at the supplier's expense will be charged to the supplier as a result of documented communication with photos and report.

For non-conformities found on products/workings/treatments/services performed, the supplier may be required to compensate Turbine Blades for the costs generated by the non-conformity if, once

the technical analysis phase has been completed, the same provides for the possible notification of administrative charges.

For non-conformities detected and promptly declared by the supplier, Turbine Blades may in any case charge costs previously incurred (e.g. raw materials, processes already carried out, etc....).

For non-conforming products recoverable from Turbine Blades, the costs of selection, control and reworking may be charged.

Non-compliant parts remain in segregation at Turbine Blades for a period of 20 working days at the supplier's disposal for inspection and technical analysis.

6 Shipment

Depending on the type of supply sent to Turbine Blades the supplier must send with each shipment:

- Transport document
- Declaration of conformity (when required by Turbine Blades)
- Control reports/records for special process suppliers (always)
- Control reports/registrations for machining suppliers (when required by Blades Turbines)
- Laboratory reports (for raw material suppliers)

The products to be shipped to Turbine Blades must be properly preserved and packaged in order to prevent defects and damage during transport.

The supplier must issue a detailed transport document with reference to the quantities of the processed items and any non-conforming products.

The supplier must ensure that the documents required to accompany the product are also adequately preserved from the risk of loss, alteration, damage.

In particular, compliance with the following requirements must be guaranteed:

- separation of each type in order to avoid the mixing of different products;
- separation and identification of particular conforming/non conforming parts;
- identification of the type by means of an adequate indication indicating the code and the quantity of the pieces;
- packaging of the products in order to avoid dents and knocks during transport;
- packaging carried out with containers suitable for the type of product and quantity in order to avoid breakage or opening during transport;
- use of wooden pallets in case the weight of the shipped product could cause breakage of the packaging.

In some cases, Turbine Blades provides the containers to be used for packaging (possibly used to deliver the material to the supplier).

It is the supplier's responsibility to verify the condition of the containers themselves and ensure that the products made are packaged and shipped to Turbine Blades according to the specifications required. Such containers must always be returned and used only for the handling and transport of products destined to Turbine Blades.

The supplier shall respect the delivery date indicated in the order.

Any variations in delivery times must be agreed in advance with the Purchasing Department. Partial deliveries are not accepted except after explicit agreements.

7 Additional requirements for suppliers of machining and special processes

The supplier must transmit together with the products:

- certificate of conformity;
- report/recording of controls;

Where required, the certificate of conformity must contain the following information:

- supplier's name and address;
- references to the certificate number and date of issue;
- product description and quantity;
- references to drawing, technical specifications, operational drawings and their revision;
- identification of Serial Numbers (Y/N), when applicable;
- references to the production batch;
- references to the purchase order;
- Control report with evidence of the results obtained;
- references to any non-compliant parts.

The Certificate of Conformity must be signed by a representative of the supplier and must contain the following declaration:

"The product supplied has been manufactured, checked and tested, in compliance and in respect of the requirements indicated by the Customer".

7.1 Validation of special processes

The supplier has to validate all the production processes whose result cannot be verified by subsequent control activities (e.g. heat treatments, mechanical treatments, repetitions, etc...). For these processes, the supplier must, where applicable:

- define the criteria for approval
- have qualified personnel
- approve and qualify the equipment and installations necessary for the execution of the process
- define control methods and procedures to demonstrate the ability of the process to achieve the planned results.
- maintain adequate records to prove the activities carried out
- Draw up operational sheets related to the process
- transmit to Turbine Blades approved operation cards

The supplier of special processes is required to notify in advance and in writing to the Technical Department of Turbine Blades any changes to the processing operation sheets affecting Turbine Blades products, even if the revision involves formal aspects. In the communication, the supplier must indicate the reason for the change.

8 Additional requirements for raw material suppliers

The supplier of raw materials (raw materials) must submit the manufacturer's certificate of conformity with the delivery. The material supplied must be accompanied by the results of chemical analysis and mechanical characteristics.

The certificate of conformity must clearly state the reference to the specification/standard referred to in the order, if any.

Individual parts must always be correctly identified.

It is the supplier's responsibility to verify that the values given in the material documents comply with the standard/specification referred to in the order.

It is the supplier's responsibility to declare the absence of radioactivity on the supplied metals, as prescribed by the binding regulations.

9 Supplier monitoring

The supplier can be periodically rated according to the reference standards (UNI EN ISO 9001, AS EN 9100).

Periodically the supplier can be informed about the level of performance according to the conformity of the parts sent and the service offered.

Turbine Blades can perform periodic audits at the supplier's premises in order to control the production process and compliance with the requirements of the quality system.

Attached to this questionnaire is the document "DS 7-04 QUALIFICATIONS SUPPLIER" with which Turbine Blades monitors and registers its suppliers.