



Contents

Topic	Page
Contents	
1. Purpose / Scope / Timing	2
2. Responsible Roles	2
3. Evaluation and selection of suppliers	4
Supplier Approval and qualification	4
4. Purchase order acknowledgment and Contract review	5
Specification Transmittal to Suppliers	6
5. Part and components qualification	6
Product qualification steps	7
Product qualification deliverables	7
Certification of conformity	7
Customer Specific Requirement e.g. Packaging Specification	8
6. Frozen Process and Design change request	8
Supplier Change Control Responsibilities	9
Supplier Deviation Requests (“SDR”)	9
Non-Conformity management	10
Root Cause Analysis (“RCA”)/Corrective Action and Preventive Action (“CAPA”)	11
7. Supplier Performance Management	12
8. Reference, Related Documents and Websites	13
9. Document Revisions and Approvals	13



1. Purpose / Scope / Timing

Purpose

The purpose of this procedure is to establish supplier quality requirements for Grid Solutions “GS” purchased direct materials and services used in GE GS products.

On signing the purchased order, the supplier undertakes to comply with all the requirements described in this document. The Supplier also undertakes to pass on the requirements of this document in any subcontracting or supply contracts. In the event of any contradiction between the requirements defined in this instruction and those described in the specifications specific to a particular supply, those of the specifications shall prevail.

Scope

This manual shall be used in conjunction with the supplier’s quality system. The function of this manual is to define the interface and communication methods between the supplier and GS and is not a stand-alone quality system.

For the avoidance of doubt, this manual supplements GS’s Terms and Conditions of Purchase (“**Ts&Cs**”), which apply to every Purchase Order (“**PO**”). The terms set forth in the PO take precedence over any additional or different terms in any other document connected with any transaction between GS and its suppliers, unless such additional or different terms are: (a) part of a written agreement which has been negotiated between the parties and which the parties have expressly agreed may override these terms in the event of a conflict; or (b) set forth on the PO to which these terms are attached.

Timing

Full compliance from all suppliers is expected at the time this document is issued, specified in our PO, Ts&Cs or accessible on our supplier portal <https://www.ge.com/renewableenergy/suppliers>.

2. Responsible Roles

Supplier

- Provide all parts, documents, and services as outlined in Purchase Order (PO), drawings, and/or specifications

Note: Unless otherwise specified, refers to the corporation, company, partnership, sole proprietorship or individual with whom GS places a PO.

- Nominate a quality correspondent (from quality or technical function)

This correspondent is the privileged contact of the GE GS Supplier Quality department to:

- Propose corrective actions in case of non-conformities,
- Carry out Root cause analysis (“**RCA**”) in the event of significant and/or recurring anomalies,
- Plan and carry out the supervision / audit actions provided for in the monitoring of supplier performance
- Implement quality improvement plans in case of insufficient performance.

If Supplier chooses to purchase products and/or services or to subcontract supply to support the fulfilment of a GS PO, **Supplier is fully responsible for qualifying and surveillance of all Sub-tier Suppliers to all GS documented requirements (including those in this document)** and notifying GS of this qualification. **Anyway, a formal request must be sent to GE Quality Authority before any start of execution (Ts&Cs chapter 6.2).**



GE reserves the right to:

- Review the supplier's process for selection, qualification, and surveillance of Sub-Suppliers,
- Approve, or disapprove, Sub-tier supplier qualifications,
- Audit and monitor the Sub-tier supplier's processes and facilities when deemed necessary.

This requirement also applies if the supplier is a sales representative or distributor that procures from Sub-tier Suppliers for manufactured parts or assemblies.

GE GS:

The supplier has privileged interlocutors whose **non-exhaustive or exclusive missions** are described below:

Supplier Performance Engineer ("SPE")

- Carries Supplier Guidelines Responsibility ("**SRG**") audit when needed.
- Carries out the initial qualification. This qualification allows a supplier to enter the GS range of authorised suppliers.
- Monitor all the audit findings to ensure they are closed with appropriate actions in a timely manner
- Manage the closure of any audit findings with the supplier and engage the commercial team if the supplier's progress toward closure is lacking.

Supplier Quality Engineer ("SQE")

- Communicates product qualification and production quality requirements to supplier
- Serves as the key interface with the supplier
- Communicates qualification acceptance to the supplier thru the PQ tool
- Coordinates process improvements, non-conforming material dispositions, corrective actions, and surveillance auditing
- Carries out supplier's audits when needed

Note: The roles and responsibilities of the SQE may apply to the Product Quality Engineer ("**PQE**"), Quality Process Engineer ("**QPE**") or other business equivalent Global Supply Chain representative.

Sourcing Leader ("SL")

- Owns overall relationship with the supplier
- When sending the RFQ ensure that quality requirements are included
- Negotiates price, delivery, terms, and conditions
- Places the PO for product qualification and production (PO placement could be managed by procurement team depending of the business)
- Note: The roles and responsibilities of the sourcing representative apply to a site commodity leader ("**SCL**"), global commodity leader ("**GCL**"), buyer, or other business equivalent sourcing delegate.

Engineering

- Responsible for drawings, specifications, CAD files, which could include critical and / or important features.
- Approves the management of non-conformities, document modifications, supplier deviation requests and qualification requirements
- Communication with the responsible engineer must be done with knowledge of the SQE
- Communicates qualification acceptance to the supplier thru the Engineering Change Order (ECO)

Note: For the purposes of this document "Engineering" or "R&D" applies to the Design Engineer, Materials Engineer, Welding Engineer, Repair Engineer, or other Engineering representative.



3. Evaluation and selection of suppliers

Supplier Approval and qualification

Upon initiation of the Approval request, Supplier contact will receive an invitation from Supplier Connect (“SCx” - <https://www.gesupplierconnect.com/sc/home>) and shall provide information requested. Supplier data will be reviewed by GE Entity Verification and Due Diligence teams. Upon successful review, supplier will be provided a Supplier Connect ID and will be created in the GE entities ERP.

Before a supplier can be nominated as a potential source, GS must initially approve them. This approval is based on the supplier having an acceptable quality management system.

The pre-requisites for approval are:

1. Approval of GS’s Supplier pre-assessment

(For information only, internal GE instruction: SO-001 Supplier Pre-assessment)

2. **SRG approval:** This program mandates GE source only from suppliers who comply with local law and all applicable GE standards in areas of environment, health, and safety, employment, security, and human rights.
Note: Audits may be performed by an approved third party or GE representative.
3. Suppliers shall maintain an ISO 9001, and/or IATF 16949, and/or AS 9100 **certified Quality Management System (“QMS”), or equivalent.**
4. **Compliance to all required Technical Regulations & Standards (“TRS”)** where our products are used is paramount to GE.
Supplier shall:
 - Understand and comply with all applicable TRS requirements.
 - Maintain a quality management system process to identify TRS requirements and flow down of requirements to various functions and processes, and assurance of fulfilment of those requirements.
 - Maintain a change management process for internally and externally driven changes/updates to TRS requirements.
 - Maintain process and product testing, inspection, and certification documentation and compliance. GE reserves the right to audit Supplier’s TRS compliance program as necessary.
5. **Successful completion of supplier Qualification Audit** (GE) conducted by the Supplier Performance Team.

Suppliers are expected to close audit finding based on the criticality:

- **Major Non-Conformities** closure target is **within 30 days of report issuance.**

Definition: An audit related non-conformance that indicates the absence of a reference quality standard requirement, the lack of a system or a complete breakdown of a system. The situation has a significant / serious impact, and serious consequences if corrective action is not taken immediately and may result in the shipment of nonconforming product. Requires High Intensity Deep Dive Root Cause Analysis. Requires Corrective Action and verifications /validations of closure.



- **Minor Non-Conformities** closure target is **within 90 days of report issuance**.

Definition: An audit related non-conformance that indicates a single or isolated incident that has low impact and will not have a serious consequence if corrective action is not immediate and will not result in the shipment of nonconforming product.

Requires Root Cause Analysis, and Corrective Actions.

Note: A qualification may be reappraised at any time in the event of deterioration or insufficiency of the supplier's performance or following non-compliance issues.

Following approval, the supplier will be entered onto the approval register, **but this is not qualification of a specific part or components**, it merely signifies that Supplier has met the minimum commercial, integrity, reputational and capability requirements to be considered for qualification.

4. Purchase order acknowledgment and Contract review

PO is the governing document, which transmits GS requirements to the supplier. Changes to PO requirements shall not be accepted by the supplier without a formal PO change or an approved Supplier Deviation Request (“**SDR**”)

In the event of a conflict between documents, order of precedence from highest to lowest is:

- Purchase Order
- Part Drawing (unless by note, drawing specifically defers to a specification as the overriding document)
- Part Acceptance Specification
- Part Process Specification
- Material Specification
- General Requirements Specifications

Any additional business, customer, or product specifications will be communicated to supplier by the GS SQE or designated representative. Unless otherwise indicated, the latest document revision shall apply.

It is imperative that the supplier ensures, before signing the order, that it can fulfil all the requirements of the order without exception and considers any possible discrepancies between these requirements and the content of its offer before signing the order.

If requirements are not understood by the supplier and require clarification, it is the responsibility of the supplier to contact GS, to initiate a possible joint contract review to resolve these misunderstandings before signing the order. Once the order has been accepted by the supplier, GS cannot be held responsible for any non-conformity caused by a misunderstanding on the part of the supplier of a requirement associated with the order.

The requirements are specified on the supply drawing, on all the specifications annotated on the drawing and, where applicable, on any other documents specified in the PO and Ts&Cs.

The specifications annotated on the drawing are of two types:

- The technical specifications which describe the technical requirements of the supply
- Packaging specifications that describe the packaging in which the supplies are to be delivered

It is the responsibility of the supplier to ensure that:

- The drawings at its disposal are at the same version as specified on the order
- All the specifications have been sent to it and are at the latest version.



The Order shall be deemed irrevocably accepted by the Supplier on the first of the following two dates: a) on the day of receipt by the Purchaser of the acceptance of the Order by the Supplier, b) when the Supplier delivers all or part of the goods object of the Order and/or begins to perform the services referred to in the Order

- Any difference from an element noted on the AR (Acknowledgement Receipt), identified by the supplier, must be immediately reported, and justified to the GS procurement department.
- The GS purchasing department analyses the impacts of this deviation and informs the supplier of its decision to accept or refuse the deviation. In the event of a refusal, the GS purchasing department asks the supplier to propose an alternative action plan to reduce the impact of the deviation. If GS and the supplier fail to agree on a plan of action accepted by both parties, GS may unilaterally decide to cancel the order without any costs associated with this cancellation.

Specification Transmittal to Suppliers

It is incumbent upon the supplier to review with the Sourcing Representative and/or SQE the appropriate document retrieval methods that may be specific to their business. **It is also the responsibility of the supplier to review specification revisions with the Sourcing Representative and/or SQE on a continuous basis to ensure that the correct revisions are being worked to.**

Unless otherwise notified by GS, suppliers are required to implement the most recent specification revisions on all existing and future POs except where parts have already entered the manufacturing process.

Any exceptions to this policy must be negotiated between the GE sourcing representative and supplier.

5. Part and components qualification

A part that is essential for the proper functioning of the GS product must be qualified before the supplier can mass produce it. The purpose of this qualification is to validate that the selected supplier has the skills and capabilities to produce this part in accordance with GS requirements.

The supplier shall submit a part qualification for approval prior to the first production shipment in the following situations:

- New part design
- Engineering change to design, specification, or material
- Correction of discrepancy on a previous PPAP submission
- Change of material or finish
- Production following refurbishment or rearrangement of existing tooling or equipment
- Production from tooling or equipment moved to a different plant location
- Change of subcontractor (e.g. heat-treating, plating) that can or may affect form, fit, function, performance, and/or durability
- Activation of tooling after 12 months or more of inactive status
- Product or process changes related to components of the production part that impact form, fit, function, performance, and/or durability
- Change in the inspection or test method
- Changes in equipment, e.g. new equipment, additional equipment, replacement, or change in equipment size
- Critical parts specified as "QA" or "Q.Level" 1 or 2 on the supply drawings
- Critical parts specified as "PC1" or "PC2"



Product qualification steps

The qualification of a part takes place in several stages

- GS's Supplier Quality department, with the support of technical department, defines the qualification program including:
 - Inspections and tests to be carried out by the supplier
 - Inspections and tests to be carried out by GS
- GS purchasing department places an order for sample parts with the supplier. These parts are used exclusively to carry out the inspections and tests provided for in the qualification programme. They are therefore usually ordered in limited quantities. Nevertheless, the supplier is asked to manufacture these sample parts with the industrial process that will be used to produce the series. This is to guarantee the validity of the checks and tests carried out as part of the qualification.
- GS supplier quality department specifies, via its dedicated IT platform, the inspections, tests and documentation required.
- On receipt of the sample parts, GS's Qualification team carry out all the inspections and tests to be done by GS. For some parts, tests in high-voltage laboratories may be required.
- At the end of the qualification, the validation of the sample parts is pronounced by the GS qualification team.

If using Quality suite PQ tool, it will provide 6.2.3a certificate with part number, supplier name, and approval.

This validation gives authorisation:

- To GS's Procurement Department to order series parts
- To the supplier to produce the parts in series.

Product qualification deliverables

Qualification documents are identified by the GS qualification team (all definition are detailed in the Appendix 1).

- Qualification records are required to be maintained by the supplier and are subject to periodic review. Any deviations from these requirements must be review and approved by the GS qualification team.
- Qualification documentation must be in English unless an exception is specifically authorized by the GS qualification team.
- For material shipped directly to a GS customer site.
As an example, the compliance summary may include but is not limited to the following:
 - Major component nameplate information and serial numbers as applicable
 - Completed MPP and PQP/ITP with appropriate signatures. This should be on file and need not be shipped with the unit
 - Results of all functional test requirements
 - Documented results of all CTQ/CTP measurements and verifications
- If shipment is required prior to completion of the qualification, the supplier must receive an approved SDR from GE specifically authorizing the shipment of unqualified material.

Certification of conformity

The supplier shall draw up a file of proof of conformity with the contractual requirements for all its supplies as required by ISO 9001 standard.

This file includes

- Elements specific to each supply
- The inspection reports carried out
- Associated material certificates (if traceability is required, these certificates must make it possible to trace each individual part supplied).
- The material, heat treatment or manufacturing process of the parts delivered by the supplier must be strictly identical to the materials, heat treatments and manufacturing processes specified on the GS



drawing. If the supplier is not able to fulfil this requirement, it must initiate a request for modification and/or supplier deviation request with GS.

- Generic elements valid for all orders of a part
- Proof of qualification of special processes and personnel
- The list of accepted derogations,

This file must be kept by the supplier for a period of 10 years from the date of the AR sent by the supplier.

GS may, at any time, request the supplier for this proof of conformity file. The supplier must be able to deliver it to GS within 2 days. For certain specific supplies, GS may ask the supplier to deliver one or more parts of this proof of conformity file. These specific requirements are specified on the drawing or on the order. The first serial order of a part from a supplier may be subject to such a request.

Customer Specific Requirement e.g. Packaging Specification

Supplier shall protect the parts against mechanical damage and the introduction of dirt and water in a manner that meets the requirements of GE specification. Supplier should establish a proofing test of the integrity of the packaging during qualification (i.e.; water test, acceleration test for the lashing system, etc.)

Each shipping container shall be legibly marked with the purchase order number, the supplier's name, the purchaser's complete address (including building and door number) and all other information required by the Purchase Order documents and the requirements of GE specification.

(refer to [Marking Packaging Preservation and Shipping Requirements](#) as appropriate)

6. Frozen Process and Design change request

Change Requests

All changes must be approved by GS prior to the supplier implementing the change including full traceability to changes implemented (Serial number, date and lot, PO etc). Prior to approval of the Change Request the supplier must continue to supply the part to the current PPAP approved process.

Frozen Process Change Request will be reviewed by the Qualification team and can lead to a new qualification if the team considers it. It may require new qualification deliverables, Certificates and Type Test reports.

GE reserve the right to reject the product / process change where there is insufficient evidence of qualification / validation or when results in the submitted documentation are not acceptable to the GE group.

Examples of changes requiring notification.

- Use of different material.
- Production from new or modified tools.
- Manufacturing process changes
- Production layout changes.
- Manufacturing site location changes.
- Change of sub supplier
- either GS Approved Supplier or supplier led change
- Changes to Production Control Plan (frequency of checking etc.



Supplier Change Control Responsibilities

The design supplier or supplier will submit copies of the request for design change to the responsible GS representative through the appropriate SDR process. Supplier will not implement changes until approved by GS.

The GS SQE will forward the supplier request for design change to the GS Engineer for disposition. The SQE will add the approved BOM and all subsequent requests for design changes to the qualification records by GS part number.

The responsible GS engineer will request additional data, or a detailed review as needed prior to providing final disposition. Disposition will be provided via the SDR process or equivalent.

Supplier Deviation Requests (“SDR”)

GS has set up dedicated IT platforms to manage the supplier deviation request, product qualification and non-conformities. The supplier must use these platforms (Quality Suite) to transmit to GS the required documents or to formalise the implementation of the requested action plans (No changes are to be communicated through email).

GS's supplier quality department is the privileged correspondent to give access to these platforms and provide the technical support required by the supplier.

When a deviation to a requirement including a drawing, specification, MPP, packaging, or a material shortage is known or expected to exist, the supplier must submit a SDR to the SQE or designated representative using the authorized SDR process.

Example : deviations include alternate materials, processes, documentation errors or omissions, changes to spare part lists, subcomponents, or software even if it does not appear to change fit, form, or function within assemblies.

SDRs should be submitted for any deviated items at the supplier, in transit from the supplier to GS or its customers.

A SDR must be submitted and approved prior to shipping deviated parts. GS has the right to request additional inspections and tests beyond applied drawing and specifications to prove deviated part's form, fit and function prior to SDR disposition.

The SDR must contain detailed description, containment, probable source and proposed remedial action information as part of the initial submittal. Failure to supply all the information may result in the SDR being returned to the supplier. If SDR negatively impacts GE fulfilment, the supplier may be charged for all related costs per PO agreement.

SDRs are limited exceptions to GS requirements. The approved SDR applies only to PO's listed on the SDR. Unless the SDR involves a drawing change, GS expects the nonconformance(s) to be eliminated on subsequent deliveries.

No rework or repair shall be performed on a deviation prior to disposition by GS.

SDR must be submitted by the primary supplier (the seller on the PO), including deviations related to a sub-supplier's scope.

When submitting the SDR, supplier should provide a complete deviation description to include as appropriate:

- Drawing/item number with zone of referenced area
- Material specification
- Special processes
- Inspection results
- Samples or photographs where applicable
- Number of defects for the lot(s) of material
- Specific purchase order numbers by part grouping
- Serial numbers of the components
- Estimated time to make correction(s)



- Cost related issues
- For serialized parts, the serial number(s) must be identified; for non-serialized parts, the specific purchase order(s) must be identified on the SDR.

Deviations from this timeline must be approved by the GS SQE. Containment actions apply to products, process, and materials in which the nonconformance was detected as well as similar products or product families in which the non-conformance may occur.

Containment will also apply when a formal RCA/CAPA is initiated. Containment at the supplier is expected to:

- Identify and Segregate (Isolate)
- Insulate (inspect products to sort for defects at the supplier, in transit for shipment and at the customer site)
- Aid in control of risk related to the nonconformance
- Document the supplier's efforts to verify control of its processes.

The supplier is expected to identify all applicable sources of the problem to include:

- Situations involving the same or similar material, product, equipment
- Instrument or system abnormalities and inconsistencies in the process
- Environmental conditions (e.g., temperature, humidity, light)
- Trends associated with equipment performance or specifications

Where applicable, suppliers should provide a rework or repair concept plan for all deviating products and services prior to disposition. Repair or rework recommendations should include:

- Identified risks that would adversely impact the product
- Planned completion date
- Estimated time (labor) required to complete correction

The supplier shall:

- have a positive identification plan, which ensures deviations and or corrected and or conforming materials are appropriately identified
- document and show evidence to GS that the remedial actions have been executed. GS will validate that the remedial actions eliminated the deviating condition or met the disposition requirements
- send a copy of the approved SDR along with the part(s) at the time of shipment. Additional markings also may be required

Deviation requests issued by the supplier are subject to financial compensation by the supplier when GS estimates their processing costs and/or their direct and/or indirect impacts to be significant.

Non-Conformity management

Non-conforming parts identified by GS (or by its customers) for which the supplier is responsible are the subject of a Non-Conformity Report ("**NCR**"). The supplier quality department of GS immediately informs the supplier of this NC and sends it the NCR. The supplier undertakes to make its best efforts to limit the impact of the NCR on the production and the customers of GS.

The supplier undertakes to organise and implement containment actions to immediately stop the delivery of new parts likely to present this NCR.

The supplier quality department of GS organises:

- sorting of parts from the same batch as the non-conforming part, to discard all parts with the NC.
- In-house reworking of parts when possible.



The supplier undertakes to replace, at its own expense, all NC parts as soon as possible and to provide the GS procurement department with the delivery date of the replacement parts **as soon as possible**.

The NC parts that could not be reworked are made available to the supplier **for a month (or other negotiated and approved timeline from GE)** upon receipt of the NCR. Any costs for returning the parts to the supplier will be borne by the supplier. At the end of this period the parts are scrapped.

The supplier undertakes to provide GS **within 15 calendar days (or other negotiated and approved timeline from GE)**, upon receipt of the NCR, with a corrective action plan detailing the causes of the appearance of the non-conformity, the reasons for the non-detection and the corrective actions implemented to avoid the recurrence of the anomaly.

The response time and the relevance of the answers are considered when assessing the supplier's performance.

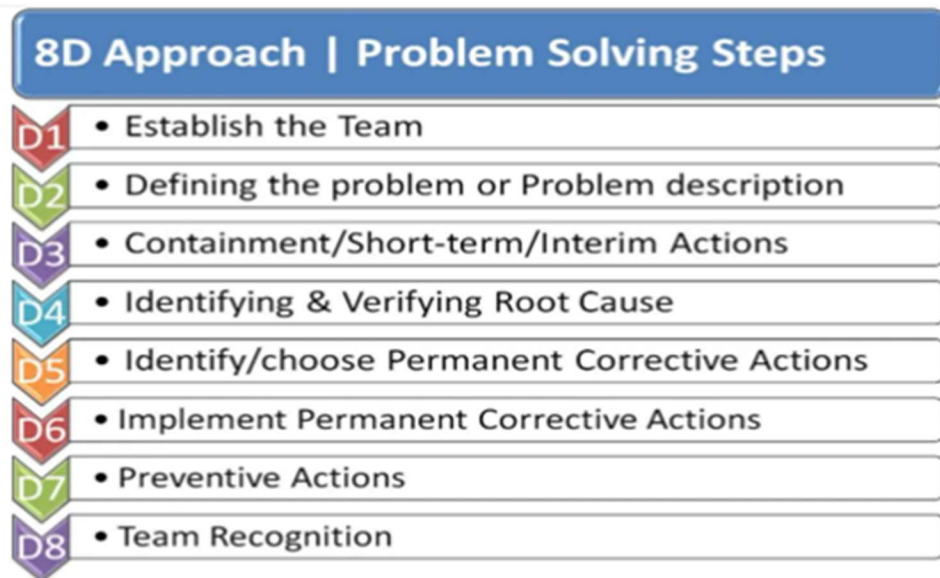
Any NC detected by GS shall be the subject of a financial compensation claim intended to cover all the costs of non-quality. All these costs are collected by GS's supplier quality department and claimed from the supplier by GS's purchasing department.

Root Cause Analysis (“RCA”)/Corrective Action and Preventive Action (“CAPA”)

GE reserves the right to request a formal RCA, to include containment, corrective, and preventive actions. Supplier is responsible for related expenses as per GS contract.

RCA report and corrective actions must be implemented, documented, and communicated (as “CAR”, “8D”, or other approved method) to GS as directed by SQE after supplier is notified of the issue by GS.

Supplier is responsible for related expenses as allowed per GS contract for supporting production in parallel to these activities.



RCA/CAPA plans should address the following with the specified time periods after being notified of the quality issue by GS:

- Correction and containment actions with **full traceability provided within 24 hours (or other negotiated and approved timeline from GE)**
- **Root causes** identified **within 5 working days (or other negotiated and approved timeline from GE)**
- **Corrective and preventive action plan** with action item owners and target dates for implementation provided within **10 working days (or other negotiated and approved timeline from GE)**



- Corrective actions implemented **within 30 working days (or other negotiated and approved timeline from GE)**
- Preventive action implementation will be verified during supplier surveillance audits.
- In any case of a **complete RCA** must be provided within **30 working days (or other negotiated and approved timeline from GE)**

Corrective action plans need to be approved by GS prior to execution.

Deviations from the timelines established above must be approved by the GS SQE and will impact supplier performance evaluation.

RCA/CAPA requests that remain open longer than the specified time periods outlined above without SQE authorization may result in disqualification of the part, process, and for critical issue, supplier from GE panel.

Any RCA provided lately or impacting GE’s resources and material shall be the subject of a financial compensation claim intended to cover all the costs of non-quality. All these costs are consolidated by GS’s supplier quality department and claimed from the supplier by GS’s purchasing department.

7. Supplier Performance Management

GS continuously evaluates the “QDC” (Quality, Delivery & Cost) performance of its suppliers. Evaluation is carried out through performance indicators and monitoring audits. The different performance indicators measured are (but not limited to):

COPQ% (Cost of Poor Quality%): Cost of Poor Quality\$ as percentage of Direct Material\$ spend.	$\text{COPQ \%} = \frac{(\text{Cost of Poor Quality \$}) * 100}{(\text{Direct Material Spend \$})}$
REC% (Recovery%): Recovery\$ as percentage of Cost of Poor Quality\$.	$\text{REC \%} = \frac{(\text{Recovery \$}) * 100}{(\text{Cost of Poor Quality \$})}$
PPM (defect Parts Per Million): Number of defect pieces per UOM divided by total pieces received x 1M.	$\text{PPM} = \frac{(\text{Total Defect Part Quantity}) * 1E6}{(\text{Total Parts Received Quantity})}$
PK% (On Time Delivery per Contractual Date): Quantity received on time per GE Need by Date or Contractual Date (+3 days / -10 days) as percentage of total quantity received.	$\text{PK \%} = \frac{\text{Delivered on Contractual date } \pm 3\text{days} / -10\text{days}}{\text{Total Deliveries}}$
AWLT (Lead Time Days): Average weighted lead time based on PO Line Creation Date and Receipt Date.	$\text{AWLT} = \frac{\sum(\text{Received Amount Line} * (\text{Standard Lead Time Line} + \text{Post Processing}))}{\sum(\text{Received Amount Line})}$
DEF% (Deflation): Previous year unit price spend vs current year unit price spend as percentage of spend.	$\text{DEF \%} = \frac{((\text{Previous Year Unit Price} - \text{Current Year Unit Price}) * \text{Received Unit Quantity})}{\text{Current Year Direct Material Spend}}$
DTP (Days to Pay): Days before full payment is due to supplier based on payment terms.	$\text{DTP} = \frac{\sum(\text{Days to Pay on PO})}{\sum(\# \text{ Received Lines})}$

Cost Of Poor Quality (“COPQ”) generated by suppliers include, but are not limited to:

- Non-conformity processing and analysis costs to understand the root cause of defective parts,
- Sorting, reworking and replacement costs for faulty parts
- Costs of production stoppages or operating losses generated by non-quality
- Premium transport costs to limit the impact of non-quality on GS customers
- Administrative fees (hours or Engineering, internal controls, NCR analysis ...)

GS reserves the right to claim COPQ from suppliers.



Additional KPI's could be defined depending on Customer contracts, type of products, timeline of production etc...like #NCR, #Defects....

- Supplier **below a global score of 80%** (Quality, Delivery and Cost) is considered as a **low performer**.
- Suppliers whose performance is **significantly below the expected level** are subject to a **Supplier Focus Program**
- **Supplier top offenders** for GS (lower performance rating) are **exposed to a disqualification**.

As part of this monitoring plan, GS:

- Asks the supplier for a specific action plan to improve this performance
- Obliges the supplier to define improved performance indicators. The supplier then undertakes to make his best efforts to achieve these objectives, which will be specified in a contractual document, the supplier "performance contract", signed by both parties.
- Sets up dedicated follow-up audits to ensure that the action plan and its results are achieved
- Re-evaluate the supplier's performance monthly. When the objectives are met and the supplier's performance has returned to expectations, the monitoring plan is closed by GS. The GS supplier quality department will immediately inform the supplier.

Suppliers whose performance has been at the expected level for the last 12 months are favoured by GS's purchasing department for current and future tenders. They are subject to specific purchasing strategies aimed at developing and sustaining their business with GS and making them long-term partners.

Every quarter, a performance review will be carried out with selected suppliers. Sourcing, quality and procurement managers will be invited to these reviews.

8. Reference, Related Documents and Websites

- [QME10_Appendix 1](#)
- [ISO9001](#)
- [GE supplier portal https://www.ge.com/renewableenergy/suppliers/document-library](https://www.ge.com/renewableenergy/suppliers/document-library)
- [Part qualification : https://qs.ren.apps.ge.com/pq/home](https://qs.ren.apps.ge.com/pq/home)
- [GE suppliers connect: https://www.gesupplierconnect.com/sc/home](https://www.gesupplierconnect.com/sc/home)
- [Marking Packaging Preservation and Shipping Requirements](#)
- [Weldment Visual Inspection Requirements](#)
- [Electronic Supplier Quality Requirements](#)
- [Non-Destructive Test \(NDT\) and Non-Destructive Evaluation \(NDE\) Requirements](#)

9. Document Revisions and Approvals

The following chart lists the revisions made to this document tracked by version. Use this to describe the changes and additions each time this document is re-published. The description should include as many details of the changes as possible.

Records of Reviewers and Approvers may be found within the DMS (Document Management System).

Version	Section Modified and Revision Description	Date	Author
1.0	Creation of a Grid Solutions Supplier quality manual common to all Product Lines.	12/21/2021	Stéphane Prost-dame