

**VULCAN STEAM FORGING COMPANY, INC.**  
**SUPPLIER QUALITY MANAGEMENT SYSTEM REQUIREMENTS**

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As a condition for being initially selected as a supplier to Vulcan Steam Forging Company (Vulcan) and as a condition for continuing to be an approved supplier to Vulcan, Vulcan requires your organization's compliance to the following:

- 1.) Your organization shall develop and maintain a quality management system that is, at the least, compliant with the requirements of ISO 9001:2008 Quality Management System requirements;
- 2.) All Vulcan purchase orders will be accompanied by, where applicable, product drawings, shop orders and vendor work instructions, hereinafter collectively called "product documents". These product documents will include, where applicable, revision levels of our customer drawings. You will be required to ensure that all this revision level is identified on all documents and records used by your organization to process the order.
- 3.) When required, Vulcan will identify certain product characteristics as critical by denoting the ♦ symbol on one or more product document. Such characteristics are considered Key Product Characteristics (KPC) and indicate an elevated level of importance for Vulcan and Vulcan's customer. When KPCs are identified, you will be required to identify them in all applicable documents and records used by your organization to process the order. Additionally, you will also use proper Statistical Process Control (SPC) techniques to monitor and control these KPCs. At a minimum, the following SPC requirements apply to KPCs:
  - a. X-Bar and R Charts to control variable data
  - b. np Charts to control attribute data
  - c. A minimum Process Capability Index Ppk of 1.33 for all KPCs for new product launches
- 4.) Nonconforming product:
  - a. When non-conforming product is manufactured, your organization will notify Vulcan of the nature of nonconformity. Vulcan will advise your organization of the disposition of the nonconforming product. Nonconforming product can be disposed of as any of the following:
    - i. Accept as-is for intended or alternate application with deviations approved by Vulcan
    - ii. Rework, re-inspect
    - iii. Scrap
  - b. All nonconforming product shall be properly identified so as to prevent its unintended use until disposition is finalized.
  - c. All nonconforming products that are disposed off as scrap shall be permanently marked physically (ex. notched, etc.) so as to make it unusable.
- 5.) Your organization will notify Vulcan prior to executing any of the following changes to your product and/or process:
  - a. manufacturing process changes
  - b. changes in suppliers

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c. changes in manufacturing location

Not all changes will require approval from Vulcan to implement the change. However, based on the potential severity of the proposed change on the end product, your organization may require an approval from Vulcan prior to executing the proposed change.

- 6.) All records related to Vulcan's contract will be retained by your organization for a minimum of 20 years, unless otherwise specified by Vulcan explicitly in a specific purchase order.
- 7.) Records shall be made available to the purchaser within 30 hours of request.
- 8.) Vulcan, Vulcan's customer, and any applicable regulatory body will have right of access to applicable areas of your organization, at any level of the supply chain, involved in the order and to all applicable records.
- 9.) Supplier shall comply with Executive Order 13496 (January 30, 2009), pertaining to employee rights under the National Labor Relations Act; the OSHA Act of 1970; the Executive Order 11141 Non-Discrimination by Age; Executive Order 11458 and 11625 Utilization of Minority Business Enterprises; 11701 Listing of Job Openings for Veterans; Section 503 of the Rehabilitation Act of 1973; Vietnam Era Veterans' Act of 1974; Executive Order 13201 Ch. 470, Notification of Employee Rights Concerning Payment of Union Dues or Fees;
- 10.) Seller shall comply with 41 CFR 60-471; 29 CFR Part 471, Appendix A; All applicable export and import laws, as well as anti-bribery and anti-corruption laws;
- 11.) Seller shall comply with all applicable provisions of Executive Agreement 11246 of September 24, 1965, as amended, the terms of which are incorporated herein by this reference and made a part thereof. It is the policy of Vulcan Steam Forging Co. to provide equal employment opportunity and to adhere to federal, state and local laws pertaining thereto. Appropriate action shall be taken by Seller, with respect to itself and any of its subcontractors, vendors, and suppliers to ensure compliance with such laws. All federal, state and local equal opportunity and affirmative action requirements with regard to race, gender, creed, color, age, religion, national origin, disability or veteran status, are incorporated herein by reference.
- 12.) Vulcan is committed to ensuring that the products it sells do not incorporate "conflict minerals", which are minerals smelted into tin, tantalum, tungsten, and gold sourced from entities which directly or indirectly finance conflict in the Democratic Republic of Congo or adjoining countries.  
  
Vulcan intends to fully comply with the requirements of Section 1502 of the Dodd-Frank Act, which requires that Vulcan perform due diligence into the sources of such minerals, and disclose the results of such diligence.

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Vulcan requires its suppliers to:

- perform sufficient due diligence into their respective supply chains to determine whether products sold to us contain tin, tantalum, tungsten or gold, and, if so, whether and to what extent those metals are sourced from conflict-free smelters;
- report to Vulcan the results of such due diligence to enable Vulcan to comply with its obligations and policy goals;
- commit to being or becoming “conflict-free”, so that any such metals are sourced only from conflict-free smelters.

13.) Material must be asbestos-free and mercury-free.

14.) Test reports/C of C’s required. Certifications must include name, signature, and title of QC Manager or other authorized personnel. The recording of false, fictitious or fraudulent entries on documents may be punished as a felony under Federal Statute.

15.) At times, Vulcan customers designate specific requirements for special process sources. Vulcan will communicate this to you and you are then responsible to flow down these requirements to your suppliers.

16.) Personnel performing work affecting quality shall be competent and qualified based on established criteria regarding education, experience, skills, training. The Supplier is responsible for determining acceptable standards and for monitoring that they are being met.

17.) To the extent there is a conflict between requirements contained in this document and requirements set forth on the face of or in the attachments on Vulcan’s purchase order, the requirements on the face of or in the attachments shall prevail.

**Appendix A: Revision record**

	Revision date	Author	Approve	Reason for revision
A.	5/26/2011	Sri Vilayanoor	Mike Duggan	New Document
B.	7/9/2012	MA Attea	Mike Duggan	Added #6
C.	12/21/2014	MA Attea	Mike Duggan	Added #9 and #12
D.	3/21/2015	MA Attea	Mike Duggan	Moved #8 to #2; Added “and/or process” to #5; Added #15
E.	5/13/15	Sri Vilayanoor	Mike Duggan	Formatting edits
F.	1/6/2016	MA Attea	Mike	#6 Changed doc retention from 15 to 20 years; #9,10, 11 added Acts and Exec Orders; #12 Added conflict mineral #13 Added merc and asbestos-free