

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 8 of 14

7. Appendix – Supplier Quality Clauses

- Q1. Inspection System Requirements-** MIL-I-45208A (or equivalent) inspection system required.
- Q2. Calibration System Requirements-**MIL-STD-45662A (or equivalent) calibration system required.
- Q3. End User-**These parts are for United Technologies Company End Use.
- Q4. Flights Safety-** HANDLE WITH CARE. These are FLIGHT SAFETY Parts.
- Q5. Company Changes-** Changes that may affect quality such as company ownership, senior management, manufacturing location, process or inspection techniques must be communicated to Chardam Gear Company.
- Q6. Frozen Processes-** This process is frozen and cannot be deviated from without written approval from Chardam Gear Company.
- Q7. No Change Policy-** Process and manufacturing procedures and supplier documents submitted for Chardam Gear Company approval shall remain at the level of configuration in effect at the time of the approval by Chardam Gear Company. The supplier shall not change process and/or manufacturing procedures/practices during the Purchase Order activity unless written approval is received from Chardam Gear Company.
- Q8. Final Acceptance-** All parts on this Request for Quotation or Purchase Order are subject to final inspection and acceptance at Chardam Gear Company.
- Q9. Nonconforming Product-** Nonconforming product must be segregated and tagged with discrepancy identified prior to shipment to Chardam Gear Company.
- Q10. Notification of Suspect Product-** Chardam Gear Company must be informed immediately (not to exceed 24 hours or the next business day) when any lot of product is suspected of being nonconforming.
- Q11. Notification-** The supplier will notify Chardam Gear Company of any nonconformity of a delivered product that may affect airworthiness. Reporting will not exceed 24 hours or the next business day and will include a clear description of the nonconformance, identify the parts affected, the part numbers, quantities and that date(s) delivered.
- Q12. Corrective Action-** Corrective action may be requested from a supplier when nonconforming products or services are delivered to Chardam Gear Company. If corrective action is required, the supplier must complete the Nonconforming Material Report and returned to Chardam Gear Company within the time frame recorded on the report. The root cause of the nonconformity must be determined and corrective action

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 9 of 14

must be implemented. Corrective action must identify the changes to processes, work instruction, procedures, specifications, drawing, inspections, tests, tools, equipment, facilities, resources, materials, or training to prevent recurrence of the nonconformance. Corrective action shall include the implementation date. Corrective action responses such as “cautioned the operator” or “changed the drill” are not acceptable. Supplier’s failure to provide an acceptable response in the allotted time frame will be taken into consideration during the annual evaluation of supplier’s performance.

- Q13. Certification of Conformance-** A Certification of Conformance is required and must be legible and reproducible. Prior to shipment against purchase order the supplier shall assure in writing, with each lot that the purchase order requirements have been met and that inspection documentation has been completed and is available for review. The verification shall indicate the specification number and revision, nomenclature, purchase order number, quantity and serial numbers and shall contain the signature and title of an authorized representative.
- Q14. Raw Material-** Tractability shall be maintained from receipt of materials through the final operation. Product certification are required and must include the chemical and physical properties reflecting numerical values for all test required by the applicable specifications, the material designation and mill source. Certifications must be legible and reproducible. The certifications shall specifically identify the material by reference to the number of the melt, heat number, or other similar designation and must indicate the applicable specification number and revision, purchase order number and shall contain the signature and title of an authorized representative.
- Q15. Forging Identification-** Each forging or part must be identified with a mill heat number or code and the foundry identification. The vendor shall segregate and identify materials to lot/heat number when mixed lot production occurs.
- Q16. Records-** Records must be legible and reproducible. Records shall be maintained on file and subject to examination by Chardam Gear Company or Customer/Government Representative. Records shall be maintained for 10 years minimum (40 years for Flight Safety parts) unless otherwise specified by end user requirements and/or specifications, after the final delivery of the order.
- Q17. Corrected Documents-** Corrected documents must adhere to the following requirements to be considered acceptable: Any errors shall be lined through with one single line, the correct information shall be entered near the error and each correction and/or addition of information shall be initialed and dated.
- Q18. Serialization-** Serial Numbers shall be maintained by the supplier per instructions on the shop traveler, operational sketch or purchase order.
- Q19. Source Inspection-** Chardam Gear Company source inspection is mandatory. When source inspection is performed, the supplier’s inspection, measuring and test equipment shall be made available for use to determine product conformance to requirements.

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 10 of 14

Supplier's personnel shall be made available for operation of equipment and otherwise assist as requested. Source inspection may include a review of systems, procedures and facilities for compliance with purchase order requirements.

- Q20. Right of Access-** Chardam Gear Company source inspectors or the Customer/Government Representative must have a "right of entry" to witness and examine processes and/or records pertaining to the Purchase Order. Such verification by Chardam Gear Company or the Customer/Government shall not be used by the supplier as effective control of quality. Verification by the Chardam Gear Company or the Customer/Government shall not absolve the supplier of the responsibility to provide acceptable product, nor shall it preclude subsequent rejection by Chardam Gear Company.
- Q21. First Piece Inspection-**A first piece shall be submitted to Chardam Gear Company for approval prior to production. This first piece shall be accompanied with an operational sketch identifying the actual results of the dimension recorded adjacent to the required dimension.
- Q22. First Article Inspection-** First article inspection is required to be performed by Chardam Gear Company. A first article inspection sheet must be submitted to Chardam Gear Company with actual results of 100% inspection of the article being performed on the first article being submitted.
- Q23. First Article Inspection-** The supplier shall furnish first article documentation representing each item of the applicable purchase order and all component part numbers. Documentation much includes inspection reports reflecting actual findings and tractability to the manufacturing documents, copies of material and special process certification and acceptance test reports.
- The first article parts shall be identified as first article with a tag attached to the part or the bag the part is contained in. All changes to tools, methods or materials that may affect geometry or specification requirements shall require a new first article and report. First article acceptance by Chardam Gear Company shall not constitute final acceptance and payment of articles required to be delivered nor does it relieve the supplier of the obligation to furnish items meeting applicable drawing, specifications and contract requirements.
- Q24. Customer/Government Contact-** On receipt of the Purchase Order, promptly furnish a copy to the Customer/Government Representative who normal services your facility, or if none the nearest Army, Navy Air Force or Defense Supply Agency inspection office representative. In the event the representative or office cannot be located, the Chardam Gear Company. Purchasing Department must be notified immediately.
- Q25. Customer/Government Inspection-** Customer/Government inspection is required prior to shipment from your facility. Upon receipt of this Purchase Order, promptly notify the

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 11 of 14

Customer/Government Representative who normally services your facility so that appropriate planning for the Customer/Government inspection can be accomplished.

- Q26. Special Processes-** Chardam Gear Company approved supplier required.
- Q27. Special Process Certification-** Each shipment shall include process certification reflecting applicable specification number with the latest revision as required by the purchase order, process sheet or drawing. Certifications must be complete, legible, reproducible and authentic. The name and title of the authorized representative shall appear on the certification and shall bear that person's signature and date.
- Q28. Heat Treatment-** Heat treat sample part of slug of the same material from the heat treat source is to be forwarded to Chardam Gear Company for each heat treat load on all carburized and hardened parts.
- Q29. Independent Lab Certification for Heat Treatment-** The initial shipment of each part number shall include a test report form a NADCAP approved independent lab certifying conformance to the latest applicable specification numbers as required by the purchase order, process sheet and/or drawing. The material that is tested by the laboratory must be processed with the lot and must be representative of the lot. The test report must be traceable to the heat treatment supplier's certificate of conformance.
- Q30. PWA Carburized and Hardened Parts-**The supplier must process parts in accordance with section F-22 and F-40 of the Pratt & Whitney Aircraft Materials Control Laboratory Manual. A Certification of Conformance certifying conformance is required and must be legible and reproducible.
- Q31. PWA Plating-** The supplier must process parts in accordance with section F-22 and F-44 of the Pratt & Whitney Aircraft Materials Control Laboratory Manual. A Certification of Conformance certifying conformance is required and must be legible and reproducible.
- Q32. PWA Forgings-** The supplier must process parts in accordance with section F-Master and F-4 of Pratt and Whitney Aircraft Materials Control Laboratory Manual. A Certification of Conformance certifying conformance is required and must be legible and reproducible.
- Q33. Shot Peening-** Shot peen certification and Almen strips are required.
- Q34. Limited Shelf Life Materials-**Materials with a limited shelf life such as paint, primer, adhesive, sealant, coating, o-rings, etc. shall reflect the date of manufacture, part material number and revision level, quantity and shelf life. Container Label(s) must reflect applicable lot or batch number(s). The supplier shall affix this information directly on the material or product container and include it on the certification document. This information shall indicate the date useful shelf life was initiated and the date and/or cycle at which life will be expended, in accordance with the manufacturer's instructions. The supplier shall identify all materials and articles, which have definite characteristics of quality degradation with age and /or environment. When the environment is a factor in

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 12 of 14

determining useful life, the identification shall indicate storage condition, e.g., temperature, humidity, etc.

A minimum of 75% of the applicable material/article shelf life shall remain upon receipt of the material by Chardam Gear Company

- Q35. Cure Dates-** Cure date required. The supplier shall be responsible for legibly and permanently identifying each part or container with the rubber cure date, and the applicable manufacturer compound number and military compound number.
- Q36. Ozone Depletion-** Suppliers shall comply with the labeling requirements for Class I and II ozone depleting substances as required by Section 611 of the Clean Air Act, amendments of 1990 and the final rules (40 CFR Part 82) implementing the same (collectively the "Act"). The supplier shall accurately label, consistent with the requirement of the act, any products, which it is supplying to Chardam Gear Company that contain a controlled substance or are manufactured with a controlled substance. In the event the supplier discovers that it has failed to comply with the labeling requirements of the act, it shall immediately notify Chardam Gear Company of those products, which failed to comply with the labeling requirement of the act.
- Q37. Material Safety Data Sheets-** Material Safety Data Sheets are required to be supplied with the order.
- Q38. Foreign Object Damage-** A Foreign Object Damage (FOD) preventative program must be implemented to protect product at all times.
- Q39. Cleaning and Packaging-** Prior to shipment to Chardam Gear Company, all products shall be cleaned so as to be free of all-foreign substances or residue from processing or handling. Product shall be returned in the same shipping container as received.
- Q40. Handling, Cleaning and Packaging-** During fabrication and processing, special carts, boxes, containers and transportation vehicles shall be used as necessary to prevent damage due to handling. Prior to shipment to Chardam Gear Company, all products shall be cleaned so as to be free from all-foreign substances or residue from processing or handling. Product shall be protected from deterioration by using a petroleum-based preservative. Product shall be packaged and protected for shipment in a way that will prevent all damage. During Packaging of small parts the use of staples should be avoided. All parts shall be checked for damage at receipt (when applicable) and prior to shipment.
- Q41. Inspection, Measuring and Test Equipment Owned by Chardam Gear Company-** Supplier assumes responsibility for all fixtures, tooling and/or inspection gages furnished by Chardam Gear Company. Fixtures, tooling and/or inspection gages must be returned to Chardam Gear Company upon completion of the order and are subject to inspection for condition. Gages that are due for calibration shall be returned to Chardam Gear

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 13 of 14

Company immediately. Gages shall be adequately protected to prevent damage in shipment.

- Q42. Calibration Supplier Requirements-** unless otherwise stated on the purchase order, the calibration tolerances for the equipment is to be to the original manufacturers recommendations. Calibration tractability is to be to the Nation Institute of Standards and Technology or other recognized national or international standards. The supplier is to supply Chardam Gear Company with a calibration certificate. The date of the calibration, the identification number of the instrument being calibrated, the environmental conditions of the laboratory and the name of the calibration technician shall be shown on the certificate. The procedure to be used for calibration is the supplier's own and must be stated on the calibration certificate. The supplier shall report the as received and as returned condition of the equipment being calibrated on the calibration certificate. The supplier is to label calibrated equipment with the calibration date, the recalibration date and the initials of the calibration technician.
- Q43. Sample Inspection-** Sampling inspection requirements are per ANSI/ASQC Z 1.4. Major characteristics are at an A.Q.L of .65, minor characteristics are at an A.Q.L. of 4.0, and both modified to a zero acceptance level.
- Q47. Material Review Authority-** All request for waiver shall be documented and submitted to Chardam Gear Company Purchasing Department. Each submittal shall include the supplier's documented analysis to determine the root cause and positive corrective action implemented to prevent recurrence. Requests for Waivers determined to affect Chardam Gear Company configuration management systems will be assigned a Supplier Nonconforming Product Report and dispositioned by Chardam Gear Company Quality Assurance Department. Copies of all dispositioned Supplier Nonconforming Product Reports will be forwarded to the supplier. Submittal for waiver does not imply Chardam Gear Company acceptance of the nonconformance and the supplier is responsible for the nonconformance and the supplier is responsible for the nonconforming material/service until documented disposition is received for Chardam Gear Company. Requests for waiver may be used during the annual evaluation of suppliers. Supplier's packing slip and verification documentation must reflect the Supplier Nonconforming Product Report Number. Product shall be segregated and identified to the applicable Supplier Nonconforming Product Report number.
- Q48. Calibration System Requirements-** ISO 17025 calibration system required.
- Q49. PWA Independent Lab Testing-** The supplier must process parts in accordance with section F-23 of the Pratt & Whitney Aircraft Materials Control Laboratory Manual. A Certification of Conformance verifying conformance is required and must be legible and reproducible.
- Q50.** All requirements of this Purchase Order shall be flowed down to all related sub-tiers.

Chardam Gear Company 40805 Mound Road Sterling Heights, Michigan 49310	Purchasing	
	Work Instruction	
		Page 14 of 14

Q51. Suppliers of metals used in the manufacture and/or servicing of Chardam Gear Company, Inc. (CGC) products (specifically gold, tin, tantalum, and tungsten) must demonstrate that they understand the conflict minerals laws and will not knowingly procure specified metals that originate from the Conflict Region.

This due diligence includes having our suppliers provide written evidence documenting that raw materials used to produce gold, tin, tantalum and tungsten, used in the materials to manufacture components and products supplied to Chardam Gear, originate from outside the “Conflict Region” or if they originate from within the “Conflict Region”, that the mines or smelters be certified as “conflict free” by an independent third party. The aim is to ensure that only “conflict free” materials and components are used in products that we procure.

If we discover the use of these minerals produced in facilities that are considered to be “non-conflict free”, in any material, parts or components we procure, we will take appropriate actions to transition product to be “conflict free”.

Suppliers must review and complete the CGC Conflict Minerals Reporting Form and warrants that it is in full compliance with conflict minerals laws, including, without limitation, Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 as it may be amended from time to time and any regulations, rules, decisions or orders relating thereto adopted by the Securities and Exchange Commission or successor governmental agency responsible for adopting regulations relating thereto (collectively, (“Dodd-Frank Section 1502”).

If Supplier does not know the original source of the minerals, Supplier agrees to cooperate with CGC, including disclosing from whom Supplier purchased the minerals and urging others to disclose such information, so that the original source of minerals can be accurately determined and reported. Supplier shall comply with all laws regarding the sourcing of minerals, including, without limitation, laws prohibiting the sourcing of minerals from mines controlled by combatants and Dodd-Frank Section 1502.

Q52. This Purchase Order contains rated order quantities certified for national defense use, and you are required to follow all the provisions of the Defense Priorities and Allocations System regulation (15 CFR Part 700) only as it pertains to the rated quantities.