

NAVSEA
STANDARD ITEM

FY-18

<u>ITEM NO:</u>	<u>009-04</u>
<u>DATE:</u>	<u>18 NOV 2016</u>
<u>CATEGORY:</u>	<u>I</u>

1. SCOPE:

1.1 Title: Quality Management System; provide

2. REFERENCES:

2.1 Standard Items

2.2 ANSI/ISO/ASQ Q9001-2008, Quality Management Systems - Requirements

2.3 ANSI/ISO/ASQ Q9001-2015, Quality Management Systems - Requirements

2.4 ANSI/NCSSL Z540-3, Requirements for the Calibration of Measuring and Test Equipment

2.5 ISO/IEC 17025, General Requirements for the Competence of Testing and Calibration Laboratories

2.6 NAVSEA 04-4734, Navy and Marine Corps Calibration Laboratory Audit/Certification Manual

2.7 SSPC QP1 Application, Instructions, and Program Rules

2.8 NAVSEA OD 45845, Metrology Requirements List (METRL)

3. REQUIREMENTS:

3.1 Establish, document, implement, and maintain a Quality Management System as a means of ensuring that product conforms to specified requirements. The system may be written based on either 2.2 or 2.3 and all additional contract requirements. The contractor may elect a system based on 2.2 and shall comply with 3.2. The contractor may elect a system based on 2.3 and shall comply with 3.3. All subsequent paragraphs apply to both systems (3.2 and 3.3). The two systems shall not be combined.

3.2 A written Quality Management System Manual addressing all elements of 2.2 and supporting documented procedures shall be submitted to the SUPERVISOR for review and acceptance. The contractor shall have an acceptable Quality Management System, in accordance with this Standard Item, in place to receive an award of a Job Order. Include the following documented procedures:

3.2.1 Include the following additional documented procedures:

3.2.2 Management Responsibility: Address all areas of Paragraphs 5.1 through 5.6.3, 6.1, 6.2.1, 6.2.2, and 8.5.1 of 2.2.

3.2.3 Customer Related Processes: Address all areas of Paragraphs 7.2.1 through 7.2.3 of 2.2.

3.2.4 Purchasing: Address all areas of Paragraphs 7.4.1 through 7.4.3 of 2.2.

3.2.4.1 Verification of Purchased Product: Identify, in the purchasing documents, verification arrangements at the subcontractor or vendor location/premises. Purchasing documents shall contain the following statement when the SUPERVISOR requests government inspection: "Government Inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify and furnish a copy to the government representative who normally services your plant so that appropriate planning for government inspection can be accomplished. In the event the government representative or office cannot be located, our purchasing agent shall be notified immediately."

3.2.4.2 Unless otherwise specified in a higher tier document, Receipt Inspection of contractor furnished materials shall be based on supplier performance history and one or more of the following: certificate of compliance, vendor material test certification data, manufacturer's mill certificate, or testing using sampling techniques.

3.2.5 Production and Service Provision: Address all areas of Paragraphs 7.5.1 - 7.5.5 of 2.2.

3.2.6 Monitoring and Measurement of Product: Address all areas of Paragraph 8.2.4 of 2.2.

3.2.7 Control of Monitoring and Measuring Devices: Address all areas of Paragraph 7.6 of 2.2. Calibration laboratories shall be accredited to either 2.4 or 2.5 by a Commercial Accreditation Activity, or certified by a Navy Certification Activity to 2.6, and the scope of accreditation must cover the appropriate measurement parameters and ranges of the calibrations performed.

3.2.7.1 Calibration intervals assigned to Measuring and Test Equipment used by the contractor for acceptance testing shall meet those recommended in 2.8 unless alternate calibration intervals are established in accordance with 2.4.

3.2.8 Measurement, Analysis, and Improvement: Address all areas of Paragraphs 8.2.1, 8.4, and 8.5.1 of 2.2.

3.3 A written Quality Management System Manual addressing all elements of 2.3 and supporting documented procedures shall be submitted to the SUPERVISOR for review and acceptance. The contractor shall have an acceptable Quality Management System, in accordance with this Standard Item, in place to receive an award of a Job Order. Include the following documented procedures:

3.3.1 Support: Address all areas of Paragraphs 7.1.5, 7.2 and 7.5 of 2.3.

3.3.1.1 Calibration laboratories shall be accredited to either 2.4 or 2.5 by a Commercial Accreditation Activity, or certified by a Navy Certification Activity to 2.6, and the scope of accreditation must cover the appropriate measurement parameters and ranges of the calibrations performed.

3.3.1.2 Calibration intervals assigned to Measuring and Test Equipment used by the contractor for acceptance testing shall meet those recommended in 2.8 unless alternate calibration intervals are established in accordance with 2.4.

3.3.2 Operation: Address all areas of Paragraphs 8.2, 8.4, 8.5, 8.6, 8.7 of 2.3

3.3.2.1 Verification of Purchased Product: Identify, in the purchasing documents, verification arrangements at the subcontractor or vendor location/premises. Purchasing documents shall contain the following statement when the SUPERVISOR requests government inspection: "Government Inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify and furnish a copy to the Government representative who normally services your plant so that appropriate planning for government inspection can be accomplished. In the event the government representative or office cannot be located, our purchasing agent shall be notified immediately.

3.3.2.2 Unless otherwise specified in a higher tier document, Receipt Inspection of contractor furnished materials shall be based on supplier performance history and one or more of the following: certificate of compliance, vendor material test certification data, manufacturer's mill certificate, or testing using sampling techniques.

3.3.3 Performance evaluation: Address all areas of Paragraphs 9.2 and 9.3 of 2.3

3.3.4 Improvement: Address all areas of Paragraph 10.2 of 2.3.

3.3.5 The documented Quality Management System shall include a matrix listing the correlation between 2.3, 3.3 and the submitted documents.

3.4 The Quality Management System shall be subject to audits by the

SUPERVISOR throughout the contract. Retain documented information to demonstrate the processes are carried out as planned.

3.5 Submit one legible copy, in hard copy or approved transferrable media, of any revisions to the accepted Quality Management System identified in 3.1 and 3.2 to the SUPERVISOR within 7 days of contractor approval.

3.6 Submittal of procedures and Process Control Procedures (009-09 of 2.1) invoked by NAVSEA Standard Items, MIL-STDs, drawings, technical publications, and specifications, although an integral part of the Quality Management System, shall be submitted to and approved by the SUPERVISOR independent of the Quality Management System a minimum of 14 days prior to start of required process for planned availabilities, or as otherwise approved by SUPERVISOR.

3.7 The corrective action program shall require that a copy of the written responses to contractor generated corrective actions will be provided to the SUPERVISOR when requested.

3.8 Respond in writing to each SUPERVISOR issued Method B/C/D Corrective Action (CA) within 3 business days unless otherwise specified by the SUPERVISOR. Initial response shall include immediate corrective action taken and a plan of action for CA completion. Final response shall include preventive action for recurrence of identified nonconformance, root cause analysis and Objective Quality Evidence (OQE) for corrective action completed. All follow up responses shall be as specified by the SUPERVISOR.

3.8.1 Inform the SUPERVISOR when corrective actions are complete for each SUPERVISOR issued Method A Corrective Action (CA). Response required within 72 hours unless otherwise specified by the SUPERVISOR. Response shall state that the non-conformance has been corrected.

3.8.2 Use NMD, or approved Web interface, to perform all CAR functions for contracts managed in NMD.

3.9 Attend fact-finding/investigative meetings when requested by the SUPERVISOR. (See 4.4)

3.10 Develop a Test and Inspection Plan (TIP) incorporating each Work Item in the job order, LOA Chits or Statements of Work (SOW). The initial TIP shall include all inspections and tests required by zero-tier references and first tier references, as well as symbols (I)(V)(Q) test/inspections and (G) government notification identified in the Work Item, and any additional tests and inspections the contractor deems necessary to substantiate product conformance.

3.10.1 Submit one legible copy, in hard copy or approved transferrable media, of initial copy of the TIP to the SUPERVISOR prior to start of productive work for non-CNO availabilities and no later than 5 days prior to the availability start date for CNO availabilities.

3.10.1.1 Submit one legible copy, in hard copy or approved transferrable media that can be sorted (e.g., Excel spreadsheet) of an updated TIP when requested by the SUPERVISOR.

3.10.2 A TIP shall:

3.10.2.1 Be revised prior to the start of productive work and updated as work proceeds on each Work Item. It shall be available upon request by the SUPERVISOR. Supporting data for tests and inspections requiring government notification (G), including accept/reject criteria, shall be available at the location of each test and inspection. Include provisions for documenting the date, time, and identification of the SUPERVISOR's representative notified and government representative attending each (G)-Point on the TIP. The TIP shall annotate the relationship to a specific key event. The following key events shall be considered at a minimum (as applicable): Undocking, Propulsion Plant Production Completion Date (PCD), Combat Systems Production Completion Date (CSPCD) or AEGIS Light-Off (ALO) for AEGIS ships, Dock Trials (DT), Fast Cruise (FC), Sea Trials (ST), and Availability Completion (AC).

3.10.2.2 Each test and inspection shall be identified by its respective Work Item number and Work Item paragraph number, including Standard Item paragraph number, and shall include inspection symbols (I) (Q) and (V), and the government notification (G) Point symbol where applicable.

3.10.2.3 Provide identification of the item to be inspected by name, number, and location (e.g., number 3 main feed pump, 5-180-0-E).

3.10.2.4 Provide identification of each characteristic of the items to be inspected and provide the criterion for acceptance for each characteristic (e.g., air test; 2 PSIG for 10 minutes; no drop).

3.11 Test and Inspection records shall:

3.11.1 Include the ship's name and hull number, Job Order and Work Item number, paragraph number, component identification, accept/reject criteria, date, time, and signature of the contractor's authorized representative who witnessed or performed the test or inspection. The signature occurs after the checkpoint is determined to be satisfactory or unsatisfactory and any exceptions are documented.

3.11.2 Be maintained at a contractor location accessible to the site of the work required by the Job Order.

3.11.3 Be documented within one day of accomplishment or prior to the subsequent tests or inspections, whichever is less. The records shall indicate the results of the test and or inspection accomplished. Records

shall be incorporated into the TIP within 4 days after completion of each test or inspection.

3.11.3.1 For tests and inspections involving (G)-points, records shall be documented upon acceptance or rejection and a hard copy (or electronic copy as authorized by the SUPERVISOR) provided to the SUPERVISOR at the conclusion of each (G)-Point. For tests and inspections utilizing Coating QA Tool Kit (CQATK) paperless QA program in accordance with 009-32 of 2.1, the data must be downloaded into the computer at the time and location of inspection. (See 4.5)

3.11.4 Required reports resulting from tests or inspections shall include the appropriate design criterion for each attribute or measurement required by the Work Item.

3.12 The SUPERVISOR will consider the Work Item incomplete if the contractor's documentation and records are not complete.

3.13 Accomplish (I), (V) and (Q) tests/inspections that do not have associated (G)-points, with qualified and/or currently certified personnel where required by the technical documents (e.g., NBPI, NACE, nondestructive testing, electrical cableway inspection, etc.) as follows:

3.13.1 (I) inspections require verification and documentation by a separate individual, other than the person who has accomplished the work, who is qualified as an inspector.

3.13.2 (V) inspections require verification and documentation by the qualified tradesperson, trade supervisor, or inspector.

3.13.3 (Q) inspections require verification and documentation by a qualified Technical Representative in accordance with 009-90 of 2.1 and associated PCP requirements.

3.13.4 The authority to accomplish, document, accept and reject (I) and (V) inspections may be delegated to qualified subcontractor personnel, without regards to geographical location, subject to SUPERVISOR approval.

3.14 Accomplish (G)-Point (government notification) as follows:

3.14.1 (G) is a symbol inserted in a Work Item to establish a point in the sequence of accomplishment of work at which time the SUPERVISOR shall be notified by the prime contractor in all cases to permit observation of a specific test or inspection (I)(V) by the government. When the symbol (G) precedes tests or inspections in a Work Item which are applicable to more than one action, the symbol (G) shall identify the action required, e.g., (G) "HYDROSTATIC TEST". When more than one unit is involved, the (G) notification requirement applies to each unit. Pre-inspection by the contractor prior to a (G)-Point is neither required nor desired.

3.14.2 Notify the SUPERVISOR's designated representative via FAX, hard copy, or by electronic method, as directed by the SUPERVISOR.

3.14.2.1 Notify the SUPERVISOR during normal day shift working hours, at least 4 hours, but not more than one day, prior to commencing the specific requirements in the paragraph annotated with the symbol (G). Notify the SUPERVISOR to cancel a scheduled test or inspection as soon as known, but no later than 30 minutes prior to the scheduled event.

3.14.2.2 Notify the SUPERVISOR not later than 4 hours before the end of the last preceding day shift when tests or inspections following a (G) Point are scheduled after normal day shift working hours, on a weekend, or on a federal holiday.

3.14.2.3 Notify the SUPERVISOR at least 48 hours, but not more than 72 hours, prior to commencing (G)-Points at contractor's/subcontractor's plants located in excess of 50 miles by the most direct roadway nearest to the place of performance of the contract. Document the date, time, and identification of the SUPERVISOR's representative notified.

3.14.2.4 For (G)-Points scheduled after normal day shift working hours, on a weekend, or a Federal holiday, notify the SUPERVISOR to cancel a scheduled test or inspection as soon as known, but no later than 2 hours prior to the scheduled event.

3.14.3 Proceed with the test or inspection if the SUPERVISOR is not present, provided the required advance notice has been furnished to the SUPERVISOR and the contractor has completed and documented the preceding tests and inspections.

3.14.4 A partial test or inspection requiring (G) notification may be accomplished in the event that all work cannot be completed and work progress would be delayed in waiting for total completion of work. Comply with the requirements of 3.14.2 when the incomplete work is completed and ready for the remainder of the test or inspection. Note partial inspections on the test or inspection form.

3.14.5 Invoke (G) notification requirements for tests or inspections involving a subcontractor in purchase orders such that the requirements of 3.14.2 are met.

3.14.6 A qualified contractor representative shall be present to accomplish, accept or reject and document tests or inspections associated with the symbol (G).

3.14.6.1 The authority to witness or perform, document and accept/reject (I) (G), (Q) (G), and (V) (G) tests and inspections is a prime contractor's responsibility but, subject to SUPERVISOR approval within a 50-mile radius of the contractor's plant nearest to the place of performance of the contract, may be delegated to subcontractors who are MSRA or ABR

agreement holders, SSPC QP1 certified, NDT certified, or have a current Quality Management System accepted by the SUPERVISOR.

3.14.6.2 The contractor may delegate responsibility to subcontractors to perform, document and accept/reject (I) (G) and (V) (G) tests and inspections performed at plants located outside a 50-mile radius of the contractor's plant nearest to the place of performance of the contract subject to SUPERVISOR prior approval.

3.14.6.3 Associated (G)-Point notification requirements shall not be delegated.

3.15 For work being performed outside a 50-mile radius of the place of contract performance, the prime contractor shall submit one legible copy, in hard copy or approved transferrable media, of purchase orders to the SUPERVISOR within 2 days or otherwise as directed by the SUPERVISOR, prior to issue of purchase order and shipment of equipment. For contractors who do not utilize purchase orders as a vehicle for accomplishing work within their company, a report identifying the delineation of the specific Work Item requirements, in lieu of the purchase order shall be submitted to the SUPERVISOR.

3.16 Maintain a current list for reference by the SUPERVISOR, designating the contractor's qualified and currently certified inspectors who witness or perform and sign for symbol (I) inspections, indicating the type of tests and inspections for which each inspector is qualified and currently certified. When subcontractors are delegated responsibility, the subcontractor's qualified and currently certified inspectors shall be included on this list.

3.17 Submit one legible copy, in hard copy or approved transferrable media, of the most recent contractor's/subcontractor's SSPC QP-1 audit results to the SUPERVISOR, no later than 10 days after contractor's/subcontractor's receipt of the final audit report.

3.18 Contractor/subcontractor shall notify the SUPERVISOR within one day when aware of any preliminary SSPC audit findings for critical audit items that result in a rating of one (1) (i.e., major CAR or deficiency) as referenced in 2.7. These notifications shall be submitted, as required, in addition to the final SSPC audit report.

3.19 Certify to the SUPERVISOR that work is completed technically correct with all required OQE. All supporting documentation shall be submitted in support of the following Key Events: Undocking (if applicable), Propulsion Plant Production Completion Date (PCD), Combat Systems Production Completion Date (CSPCD) or AEGIS Light-Off (ALO) for AEGIS ships, Dock Trials (DT), Fast Cruise (FC), Sea Trials (ST), and Availability Completion (CA).

3.19.1 As required by 009-60 of 2.1, each Work Item to be accomplished during the availability shall be evaluated and properly tied to the appropriate Key Event in a predecessor/successor methodology and documented in the Integrated Production Schedule (IPS) and tracked via the

Event Readiness List. Key Event ties shall also be annotated for each item in the TIP as required by 3.10.2.1.

3.19.2 Notify the SUPERVISOR of the condition and status of each individual Work Item in the availability within 3 days of Work Item completion or a minimum of 5 days prior to the scheduled Key Event to which that item is tied, whichever occurs first, by either of the following methods:

3.19.2.1 Completion and submission of one legible copy of Attachment A, in hard copy or approved transferrable media. Submission of Event Readiness List (ERL) may substitute for Attachment A when authorized by the SUPERVISOR.

3.19.2.2 Signature on a centralized signature sheet or record book maintained by the SUPERVISOR if Work Item is complete. If work is incomplete or complete with discrepancies, supporting rationale and impact statement with recovery plan shall be provided to the SUPERVISOR via submission of one legible copy of Attachment A, in hard copy or approved transferrable media. Upon completion of work or correction of discrepancies, a revised Attachment A with the updated status shall be submitted to the SUPERVISOR in hard copy or approved transferrable media.

4. NOTES:

4.1 ANSI/ISO/ASQ Q9001:2008 commercial third party registrar certification is not required.

4.2 The Quality Management System submitted in 3.2 or 3.3 requires a one-time submittal/acceptance unless this NAVSEA Standard Item and/or references change or contractor's status changes.

4.3 A "zero-tier reference" is a specification, standard, drawing, test memo, planning/design memo that is cited in the contract (including its attachments). A "first-tier reference" is either: (1) a specification, standard, or drawing cited in a zero-tier reference, or (2) a specification cited in a first tier drawing. All zero-tier and first tier references are mandatory for use. All lower tier references shall be used for guidance only.

4.4 Contractor-run critiques or fact findings are accomplished in accordance with 009-120 of 2.1.

4.5 A partial (G)-point may be accomplished for a fraction of the work specification components. When elected, the contractor is responsible to account for the inspection status of each component. A final (G)-point is required for the last remaining component(s).

Attachment A
Work Completion Certification

SHIP'S NAME :	HULL NO.:			
WORK ITEM NO:	SSP NO.:			
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">KEY EVENT:</td> <td style="width: 5%; text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </td> <td style="border: none;"> Undocking (UD) Production Completion Date (PCD) Dock Trials (DT) Fast Cruise (FC) Sea Trials (ST) Availability Completion (AC) Combat Systems PCD/ALO Other _____ </td> </tr> </table>		KEY EVENT:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Undocking (UD) Production Completion Date (PCD) Dock Trials (DT) Fast Cruise (FC) Sea Trials (ST) Availability Completion (AC) Combat Systems PCD/ALO Other _____
KEY EVENT:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Undocking (UD) Production Completion Date (PCD) Dock Trials (DT) Fast Cruise (FC) Sea Trials (ST) Availability Completion (AC) Combat Systems PCD/ALO Other _____		

1) All contracted production work (original, new and growth) has been satisfactorily reviewed, accurate and complete.

RESULTS/STATUS:

- Complete
- Complete w/ Discrepancies
- Incomplete

Note: If complete with discrepancies or incomplete, rationale and final adjudication must be entered in the Comments block below.

Comments: _____

Print and Sign

Name: _____ Date: _____

Position and
 Responsibility: _____

2) All Tests and Inspections have been completed satisfactorily reviewed, accurate, complete and properly documented in the T&I Plan.

RESULTS/STATUS:

- Complete
- Complete w/ Discrepancies
- Incomplete

Attachment A

Note: If complete with discrepancies or incomplete, rationale and final adjudication must be entered in the Comments block below.

Comments: _____

Print and Sign

Name: _____ Date: _____

Position and
Responsibility: _____

3) All required reports and all accompanying required data have been submitted, reviewed, accurate, complete and satisfactory.

RESULTS/STATUS:

- Complete
- Complete w/ Discrepancies
- Incomplete

Note: If complete with discrepancies or incomplete, rationale and final adjudication must be entered in the Comments block below.

Comments: _____

Print and Sign

Name: _____ Date: _____

Position and
Responsibility: _____
