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SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **CAL1** 05/2002
2. Title - **CALIBRATION SYSTEM APPROVAL**
3. Description of Data
 - a. Purpose - To assure that calibration services are performed in accordance with approved procedures.
 - b. Requirements -
 - (1) Calibration services and procedures shall comply with the requirements of ANSI/NCSL Z540-1, General Requirements for Calibration Laboratories and Measuring and Test Equipment.
 - (2) The Seller shall provide to the Buyer a written description of its calibration system.
 - (3) The description may be in a format selected by the Seller and shall contain, as a minimum, the following information:
 - (a) List of applicable measurement standards, both reference and transfer
 - (b) Provide nomenclature, identification number, calibration interval and source for measurement standards
 - (c) Describe environmental conditions under which calibration will be conducted
 - (d) State the source document used to identify the calibration interval
4. Submittal -
 - a. Calibration system description and procedures are to be submitted prior to the start of calibration.

Todd Pacific Shipyards Corp.
Central Tool Room
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **CAL2** 11/1998
2. Title - **MTE CONDITION REPORT**
3. Description of Data -
 - a. Purpose - To assure the Seller provides the Buyer specific information detailing the condition of Measuring and Test Equipment (MTE) which exceeds the manufacturer's established, or other objective and verifiable, tolerance limits.
 - b. Requirements - The Seller shall assess each MTE's "as received" condition in advance of accomplishing any calibration service and/or repair, and shall provide a MTE Condition Report on each piece of MTE disclosed to exceed its manufacturer's established tolerances. The report shall be in a form selected by the Seller but shall contain, as a minimum, the following information:
 - Make, Model, Buyer's instrument control number,
 - Pre adjustment condition (specific numeric values),
 - Details of the necessary adjustments and/or repairs,
 - Source document used to establish tolerance limits,
 - Signature of technician performing work, and date
4. Submittal -
 - a. Reports are to be sent to:

Todd Pacific Shipyards Corp.
Central Tool Room
1801 16 Ave. SW
Seattle, WA 98124

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **CAL3** 05/2002
2. Title - **CERTIFICATE OF CALIBRATION**
3. Description of Data
 - a. Purpose - To assure the Seller provides the Buyer with Calibration Services and Certificates which are in accordance with ANSI/NC SL Z540-1, General Requirements for Calibration Laboratories and Measuring and Test Equipment, for each piece of Todd equipment provided or returned to the Buyer.
 - b. Requirement - The Certificate of Calibration shall be in a Z540-1 format and shall contain the following information:
 - Buyer's instrument control number (if applicable),
 - Title of Report
 - Name and address of laboratory and location where the calibration was carried out
 - Serial number or unique identification of the report itself and of each page and the total number of pages
 - Name and address of customer
 - Description of the calibrated item, make, model and serial number
 - Characteristics and condition of calibrated item
 - Date of Calibration
 - Identification of the Calibration Procedure utilized
 - Date of calibration
 - Reference to sampling procedure used, were relevant
 - Any deviations, additions or exclusions from calibration method
 - Any other information relevant such as environmental conditions
 - Measurements, examinations and derived results
 - A statement of the estimated uncertainty of the calibration results
 - A signature and title of the person accepting responsibility for the content of the report
 - A statement that the results only relate to the item calibrated
 - A statement that the certificate may not be reproduced except in full
 - Special limitations of use (if applicable)
 - Traceability statement
 - Certificates of Calibration can only be amended by a further document including the statement "Supplement to Calibration Certificate"(or report) and the serial number of the original certificate
4. Submittal -
 - a. A Certificate of Calibration shall accompany each piece of equipment that is provided or returned to the Buyer:

Todd Pacific Shipyards Corp.
Central Tool Room
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **CRT3** 11/1998
2. Title - **CERTIFICATION OF COMPLIANCE - LEVEL III**
3. Description of Data -
 - a. Purpose - This data will provide the Buyer with objective evidence of compliance with quality requirements. Data required by this SDRL must be supported by the detailed records of the Seller.
 - b. Requirements - Certificates of compliance must contain the Purchase Order and Line Item numbers. The certification must contain a statement that the delivered product has been inspected and tested and is in conformance with all applicable drawings, specifications, and requirements of the Purchase Order. The certification must be signed by the Sellers authorized representative responsible for ensuring that the product being delivered is in accordance with Purchase Order requirements.
4. Submittal -
 - a. Certificates of compliance must be furnished by the Seller for items of material and/or equipment with each shipment delivered under this Purchase Order.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. – **DEC1** 05/2002
2. Title – **DECK COVERING APPROVAL**
3. Description of Data
 - a. Purpose - To assure that QA checkpoints for deck coverings are performed by a Todd Quality Assurance Inspector.
 - b. Requirements -
 - (1) Calibrated equipment used to measure thickness shall comply with the requirements of ANSI/NCCL Z540-1, General Requirements for Calibration Laboratories and Measuring and Test Equipment.
 - (2) A Todd QA inspector and an owner representative shall be present during the inspection.
 - (3) The following check list will be used during the inspection of elastaflake deck coverings:

NEW DECKS

1. Verify that all deck fittings and flush scuttles open freely prior to start of job
2. Surface prep and cleanliness inspection of space prior to applying primer
3. Apply silicone caulking around all bolts for tank top access covers, drains, and flush fittings
4. Dry film thickness inspection
5. Color coat inspection
6. Seal coat inspection for each required coat
7. Verify that all deck fittings and flush scuttles open freely
8. Final sale inspection for acceptance by representatives from Todd and the customer (Includes final cleanliness inspection)

RECOLOR AND FLAKE OF EXISTING DECK

1. Verify that all deck fittings and flush scuttles open freely prior to start of job
2. Surface prep inspection (Scuffing of deck coating surface)
3. Accomplish cleanliness inspection prior to applying color coat
4. Apply silicone caulking around all bolts for tank top access covers, drains, and flush fittings.
5. Color coat inspection
6. Seal coat inspection for each required coat
7. Verify that all deck fittings and flush scuttles open freely
8. Final sale inspection for acceptance by representatives from Todd and the customer (Includes final cleanliness inspection)

RESEAL OF DECK

1. Verify that all deck fittings and flush scuttles open freely prior to start of job
2. Surface prep inspection (Scuffing of deck coating surface)
3. Apply silicone caulking around all bolts for tank top access covers, drains, and flush fittings
4. Accomplish a cleanliness inspection prior to applying seal coat
5. Seal coat inspection of each required coat
6. Verify that all deck fitting and flush scuttles open freely

7. Final sale inspection for acceptance by representatives from Todd and the customer (Includes final cleanliness inspection)

INSPECTIONS FOR INSTALLATION OF TILE DECK COVERING

1. (I) – Verify that all deck fittings and drains open freely prior to start of job.
 2. (IG) – Surface prep and cleanliness inspection prior to applying primer.
 3. (I) – Dry film thickness inspection of specified coating system.
 4. (IG) – Inspection of underlayment (cured and smooth)
 5. (IG) – Final sale inspection for acceptance by Todd Shipyard Quality Assurance Inspector.
 6. (I) – Verify all deck fittings and drains open freely.
- (4) Non-Skid subcontractor will, in addition to the requirements of standard items, ensure that a minimum of two layers of protection be installed around all deck hatches. The material used for protection shall be strong enough to maintain integrity under normal non-skid replacement operations, ie material should withstand normal foot and forklift traffic. Additionally, the PCP will require that the non-skid subcontractor hand prep area 6 inches in way of hatches unless Todd, with concurrence from SSPS, waves this requirement because a superior containment method other than vacuum blast is used.

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **INS4** 11/1998
2. Title - **SOURCE INSPECTION**
3. Description of Data -
 - a. Purpose - To establish an understanding between the Buyer and the Seller of the requirements and responsibilities of Source Inspection.
 - b. Requirements -
 - (1) The Seller shall permit the Buyer or his designated representative to conduct quality audits and inspections, using the Seller's facilities and equipment as required, to evaluate the degree of compliance with the purchase order. This can include surveillance of the products, Seller's systems, procedures and facilities deemed by the Buyer to be necessary and pertinent. The Buyer may elect to maintain continuous or intermittent surveillance over the Seller's quality control system as appropriate.
 - (2) The Seller shall provide written notification within thirty (30) days of purchase order award, of the following:
 - (a) Point of contact and telephone number
 - (b) Location of Seller's facility where source inspection will take place
 - (c) Date (week of) when the material may be ready for source inspection
 - (3) The Buyer will notify the Seller prior to the source inspection date, of the following:
 - (a) Name of the individual that will perform the source inspection
 - (b) Date on which the individual is to arrive at the Seller's facility
 - (c) Any special instructions or preparations
4. Submittal -
 - a. Source inspection notification shall be made to the responsible Todd Shipyard buyer:

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **LBL1** 11/1998
2. Title - **LABELING OF HAZARDOUS MATERIAL**
3. Description of Data -
 - a. Purpose - To ensure that the chemical manufacturer, importer, or distributor label, tag, or mark their containers of hazardous materials in accordance with 29 CFR1910.1200, (18 USC1801) Hazardous Materials Transportation Act, OSHA, and WAC 296-62-054.
 - b. Requirements -
 - (1) The Seller will provide the Buyer with the following information in a format selected by the Seller and affixed to the product(s).
 - (a) Identity of the hazardous material
 - (b) Appropriate hazard warnings
 - (c) Name and address of the chemical manufacturer, importer, or other responsible party.

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **MSD1** 11/1998
2. Title - **MATERIAL SAFETY DATA SHEET**
3. Description of Data -
 - a. Purpose - To provide the Buyer with data required by the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (29 CFR 1910.1200), and Washington Administrative Code (WAC) 296-62-054.
 - b. Requirements -
 - (1) The Seller may utilize their own MSDS form meeting the requirements of the regulatory agencies.
 - (2) The Seller shall provide current, concise and accurate information. Each section shall be completed in its entirety. Line items not applicable to the material being delivered shall be completed by entering N/A.
 - (3) The submitted MSDS shall be dated and will include the name of the preparer. In the event that the Seller's point of contact is different than the preparer of the MSDS, then that individual will also be named on the MSDS.
4. Submittal -
 - a. MSDS's are to accompany the material at each delivery.

Todd Pacific Shipyards Corp.
Central Receiving Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **MTL1** 05/2004
2. Title - **MIC LEVEL I MATERIAL TRACEABILITY AND TEST REPORTS**
3. Description of Data -
 - a. Purpose - To provide the Buyer with the data required by NAVSEA 0948-LP-045-7010 for the Identification and Control of MIC LEVEL I piping system material.
 - b. Requirements -

(1) Quality System

The Seller of Level I piping system components shall have an effective quality control system in operation that complies with the requirements of ANSI/ASQC Q9002 paragraphs 4.5-4.14, 4.16, and 4.18. The quality system will be controlled by written procedure and shall provide for the issuance of objective quality evidence (OQE) regarding materials and components to the requirements of NAVSEA 0948-045-7010.

If the Seller is not the manufacturer, the Seller shall have a quality system which ensures the requirements of this SDRL are complied with. The Seller's quality system may be subject to audit by the Buyer.

(2) Traceability to Raw Materials

All items fabricated under this Purchase Order shall be traceable to raw materials used. The manufacturer shall furnish certification data or OQE for the chemical composition and mechanical properties traceable to heat, lot or batch (as defined in the Purchase Order) for all designated Level 1 material. All traceability and inspection records must be identifiable with raw materials, parts or assemblies to which they are applicable and shall be available upon request or audit by the Buyer or customer representatives. Such data shall be furnished for each homogenous lot in accordance with DI-MISC-80705 for all Government contracts.

- (a) Raw materials used shall be identified by lot number as well as material type, specification, heat number, etc., and shall be identifiable with lot of raw materials used. When two (2) or more parts are joined in an assembly, the Seller shall prepare an assembly parts list and the lot of raw material from which it was fabricated.
- (b) All material fabricated by the Seller in one lot shall be identifiable to that lot when supplied to the Buyer. When the Seller is combining material fabricated in two or more different lots to fulfill Purchase Order requirements these materials shall be segregated and identifiable to the lot in which it was fabricated.
- (c) The Seller shall request from the Buyer authorization to furnish materials fabricated in two (2) or more lots to fulfill the total quantity of each item on the Purchase Order.
- (d) The Seller shall provide brazing and welding material from a homogenous lot ONLY

(3) Material Composition

(a) Chemical & Physical Test Reports

The OQE certification data shall be recorded on the testing company's letterhead and shall bear the name, title and signature of the authorized company representative. The name and title shall be clearly legible. Certification data supplied shall be either the original mill material certification, the original copy from the testing facility or exact photocopies of these documents. The data forwarded by the manufacturer shall contain a signed certification that the reported results represent the actual attributes of the material and indicate full compliance with all applicable specification and contract requirements. Statements on

material certification documents must be positive and unqualified. Words such as 'to the best of our knowledge' or 'we believe the information contained herein is true' are not acceptable.

If the starting material or raw stock is processed in such a manner that will not affect its chemical composition or mechanical properties, the original certifications for the chemical composition and mechanical properties, as required by the material specification, is acceptable. Re-certification of the original properties of the material is required if a metal working process is used during fabrication that alters the original properties of the material (e.g. heat treating or forming). In these instances, the mechanical properties of the material must be re-determined and documented to reflect the altered condition. The altered material shall be uniquely re-identified. The mechanical properties thus determined and documented are required for final certification and shall conform to the material specification and purchase order requirements. Additionally, the original certification for chemical composition shall be annotated with the unique traceability marking used with the altered material. Alternately, altered mechanical properties may be certified by a testing facility laboratory and reported in accordance with the paragraph above. The altered mechanical properties report must be maintained with the chemical composition certification data.

Furnish two (2) legible and reproducible copies of actual test reports, as indicated below, identifiable with the material supplied.

- Chemical (Composition Analysis Report)
- Physical (Mechanical Properties Test Report)

In cases of foreign certification, conversion of foreign language units of measure into US units of measure shall be annotated on the furnished foreign certification, if space permits, or place on an addendum in the same format as the foreign certification data. Such conversion shall be identified as to origin with name, title and signature of the authorized representative of the company making the conversion.

(b) Certification of Material Conformance

The Seller shall furnish legible and reproducible copies of a certification listing the Specification and stating that the material(s) supplied is in full compliance with Purchase Order requirements. Specific data or objective evidence of conformance to these requirements must be on file and available for examination upon request from the Buyer. The certification shall contain the signature and title of an authorized representative of the Seller. 2 copies of certification are to accompany shipment.

(4) Marking of Material

All material shall be marked in accordance with:

- (a) MIL-STD-792
- (b) NAVSEA 0948-045-7010

Markings shall be accomplished in a manner that can be directly related to the documentation required above and shall include:

- (a) Individual heat numbers or continuous cast time period (where applicable)
- (b) Serial or code numbers applied on a lot basis
- (c) Identification marking as required by individual specifications
- (e) Manufacturer's name or trademark
- (f) For brazing material, the identity shall also consist of the grade. For welding filler material, the identity shall also consist of the type. For consumable inserts, the identity shall also consist of the type.
- (g) Marking shall be applied in accordance with MIL-STD-792 and as stated within. An alternated marking method is permissible, provided it is an available option in the applicable specification or drawing. For items which cannot be marked without disassembly, oxygen clean items, plated parts or hardened material (where the material finish condition precluded permanent marking (the marking information shall be on a tag attached to each items

assembly or on the package for a homogenous lot of the item (e.g. brazing rods, welding filler material)

- (h) Marking shall be legible
- (i) Marking shall be located so as not to affect the form, fit or function of the item and, if possible, should be viable following assembly or installation
- (j) Marking shall be permanent whenever the type, size and condition of the material permits, except as stated in this SDRL. If all the markings on the item cannot be applied due to space limitation, the permanent marking shall be applied using the following order of precedence (abbreviations are permitted):
 - Manufacturer Marking
 - The kind of material
 - The traceability code number
 - The manufacturer's name, trademark or symbol

Permanent marking is not required for small unassembled items whose type or condition preclude the use of permanent markings. However, such small items shall be identified as follows:

- Package or segregate small unassembled items by homogenous lot and label the package with the required markings.
- Permanent marking is not required for small items which are required to be Level 1 and are included as part of the pressure boundary of a completed assembly. Certification statements relating these small items and their OQE shall be provided and included in the records for the completed assembly.

(5) Segregation of Material

Material supplied by Seller shall be packaged, stowed and shipped in a segregated manner by:

- (a) Type of material
- (b) Size
- (c) Heat, lot or batch number
- (d) Non-Level I material shall not be intermingled with Level I shipments.

(6) Document Marking

The words "MIC LEVEL I" or "LEVEL I" shall be marked on all packing slips or shipping documents in letters that are legible and of sufficient size to be easily recognized.

4. Submittal -

- a. Test reports (OQE) that are required by this SDRL shall be original copies or exact duplicates, transcriptions are not acceptable. Test reports shall be forwarded with and accompany the shipment of materials or components.

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **MTL3** 11/1998
2. Title - **CHEMICAL AND PHYSICAL TEST REPORTS**
3. Description of Data -
 - a. Purpose - To assure chemical and physical test reports are produced.
 - b. Requirements -
 - (1) The Seller shall provide chemical analysis and physical test reports of raw materials or finished materials in accordance with the applicable specifications.
 - (2) Test reports shall include the Purchase Order and Line Item Numbers.
 - (3) Reports must contain the signature of a responsible representative of the organization performing the test and the title of the representative.
4. Submittal -
 - a. Chemical and Physical Test Reports shall be forwarded with and accompany each shipment of materials or components.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **MTL4** 11/1998
2. Title - **CERTIFICATION OF MATERIAL**
3. Description of Data -
 - a. Purpose - To obtain an expressed warranty from the Seller that the items supplied have been fabricated or manufactured from material that meets the requirements of the Purchase Order, including drawings, standards and specifications referenced therein.
 - b. Requirements -
 - (1) The Seller shall provide a written statement that the materials in the items supplied meet or exceed the requirements of the Purchase Order and referenced drawings, standards and specifications cited therein.
 - (2) The certification may be in any format selected by the Seller but must, as a minimum, contain the following information:
 - (a) Purchase Order and Line Item Number
 - (b) Quantity of items supplied, identification of the true manufacturer and the true manufacturer's part number
 - (c) A statement that test reports to validate the quality characteristics of the materials used in fabricating or manufacturing the items supplied are on file and copies are available on request.
 - (3) The certification shall be dated and shall contain the signature of the Seller's authorized representative and the representative's title.
4. Submittal -
 - a. The Certification of Material shall be forwarded with and accompany each shipment of materials or components.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **NDT1** 11/1998
2. Title - **NONDESTRUCTIVE TESTING PROCEDURE APPROVAL**
3. Description of Data -
 - (a) Purpose - To assure that nondestructive testing is conducted in accordance with applicable specifications.
 - (b) Requirements -
 - (1) The Seller shall provide Radiographic, Ultrasonic, Liquid Penetrant and/or Magnetic Particle inspection procedures consistent with the scope of work for the contract involved.
 - (2) The Seller is to provide any NAVSEA or other Regulatory Agency approvals already held.
 - (3) Inspection procedures are to be prepared in accordance with the applicable standard for contract specific requirements.
4. References -
 - a. NAVSEA Tech. Pub. T9074-AS-GIB-010/271, Requirements for Nondestructive Testing Methods
 - b. Military Standard 2035 (SH), Nondestructive Testing Acceptance Criteria
 - c. American Bureau of Shipping (ABS) Rules for Nondestructive Inspection of Hull Welds
 - d. American Society of Mechanical Engineers (ASME) Chapter 5, Nondestructive Testing
5. Submittal -
 - a. Procedures are to be provided prior to the conduct of nondestructive testing activities.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **NDT2** 11/1998
2. Title - **RADIOGRAPHIC TEST REPORTS**
3. Description of Data -

Requirements - The Seller shall provide Radiographic Inspection Reports indicating job name, item number, name of item(s) inspected, unique shot number (if applicable), results of the inspection and the nature of a defect if present. The associated radiographic film is also to be submitted. Inspections are to be conducted in accordance with the applicable standard for contract specific requirements.
4. References -
 - a. NAVSEA Tech. Pub. T9074-AS-GIB-010/271, Requirements for Nondestructive Testing Methods
 - b. Military Standard 2035 (SH), Nondestructive Testing Acceptance Criteria
 - c. American Bureau of Shipping (ABS) Rules for Nondestructive Inspection of Hull Welds
 - d. American Society of Mechanical Engineers (ASME) Chapter 5, Nondestructive Testing
5. Submittal -
 - a. Reports are to be sent by facsimile transmittal (FAX) to:

Todd Shipyard Quality Assurance Department
206-442-8512
 - b. If unable to FAX, Mail to:

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98124

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **NDT3** 11/1998

2. Title - **ULTRASONIC TEST REPORTS**

3. Description of Data -

Requirements - The Seller shall provide Ultrasonic Inspection Reports indicating job name, item number, name of item(s) inspected and the results of the inspection. Report is to include a sketch of the inspection area. Inspections are to be conducted in accordance with the applicable standard for contract specific requirements.

4. References -

- a. NAVSEA Tech. Pub. T9074-AS-GIB-010/271, Requirements for Nondestructive Testing Methods
- b. Military Standard 2035 (SH), Nondestructive Testing Acceptance Criteria
- c. NAVSEA 0900-LP-001-7000, Fabrication and Inspection of Brazed Piping Systems
- d. American Bureau of Shipping (ABS) Rules for Nondestructive Inspection of Hull Welds
- e. American Society of Mechanical Engineers (ASME) Chapter 5, Nondestructive Testing

5. Submittal -

a. Reports are to be sent by facsimile transmittal (FAX) to:

Todd Shipyard Quality Assurance Department
206-442-8512

b. If unable to FAX, Mail to:

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98124

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **NDT4** 11/1998

2. Title - **PENETRANT TEST REPORTS**

3. Description of Data -

Requirements - The Seller shall provide Liquid Penetrant Inspection Reports indicating job name, item number, name of item(s) inspected and the results of the inspection. Inspections are to be conducted in accordance with the applicable standard for contract specific requirements.

4. References -

- a. NAVSEA Tech. Pub. T9074-AS-GIB-010/271, Requirements for Nondestructive Testing Methods
- b. Military Standard 2035 (SH), Nondestructive Testing Acceptance Criteria
- c. NAVSEA 0900-LP-001-7000, Fabrication and Inspection of Brazed Piping Systems
- d. American Bureau of Shipping (ABS) Rules for Nondestructive Inspection of Hull Welds
- e. American Society of Mechanical Engineers (ASME) Chapter 5, Nondestructive Testing

5. Submittal -

a. Reports are to be sent by facsimile transmittal (FAX) to:

Todd Shipyard Quality Assurance Department
206-442-8512

b. If unable to FAX, Mail to:

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98124

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **NDT5** 11/1998
2. Title - **MAGNETIC PARTICLE TEST REPORTS**
3. Description of Data -
Requirements - The Seller shall provide Magnetic Particle Inspection Reports indicating job name, item number, name of item(s) inspected and the results of the inspection. Inspections are to be conducted in accordance with the applicable standard for contract specific requirements.
4. References -
 - a. NAVSEA Tech. Pub. T9074-AS-GIB-010/271, Requirements for Nondestructive Testing Methods
 - b. Military Standard 2035 (SH), Nondestructive Testing Acceptance Criteria
 - c. American Bureau of Shipping (ABS) Rules for Nondestructive Inspection of Hull Welds
 - d. American Society of Mechanical Engineers (ASME) Chapter 5, Nondestructive Testing
5. Submittal -
 - a. Reports are to be sent by facsimile transmittal (FAX) to:

Todd Shipyard Quality Assurance Department
206-442-8512
 - b. If unable to FAX, Mail to:

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98124

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **PTD1** 10/2002
2. Title - **PROVISIONING TECHNICAL DOCUMENTATION (PTD), HULL, MECHANICAL, ELECTRICAL (HME)**
3. Purpose - Provisioning Technical Documentation is the method that intends to provide complete information for each assembly, which identifies and determines the acquisition methods of all parts or pieces, required to maintain the end item in an efficient operating condition.
4. References -
 - a. MIL-PRF-49506, Logistics Management Information
5. Instructions -
 - a. CLASS I - A Statement of Prior Submission (SPS) shall be considered satisfactory for components that have a previously approved APL or CID number providing the SPS submittal is in a letter format and contains all the following data information.
 - a) Manufacturer's name, address, and FSCM number.
 - b) Component's nomenclature or description.
 - c) Component's part or model number.
 - d) Component's assigned APL or CID number.
 - e) Component's assigned NSN (when available).
 - b. CLASS II - Information must be provided for components (end items) which have not been previously assigned an approved APL or CID number. The information shall provide specific data required for the development of a Class II PTD submittal as follows:
 - a) Manufacture's name, address, and FSCM number.
 - b) Component's (end item) nomenclature or description.
 - c) Component's (end item) model or identification number.
 - d) All specialty tooling necessary to support installation, maintenance, or overhauls activities.
 - e) Component's (end item) Provisioning Parts List (PPL). - A Provisioning Parts List is a complete through top down or breakdown listing that identifies the component (end item) in detail and provides a list for each individual piece or part, which when assembled constitutes the component (end item), including all associated information relating to each individual piece or part as follows:
 1. Each piece or part nomenclature or description.
 2. Each piece or part identification or part number and alternates if available.
 3. All data for each piece or part, i.e. type of material and specification, pressure rating, shelf life, etc., as applicable.
 4. Possible procurement source for each piece or part.
 5. Cost of each piece or part.
 6. Manufacture's recommended on board spares list.
 - f) Component's Supplemental Provisioning Technical Documentation (SPTD) - Supplemental Provisioning Technical Documentation is the graphic segment of the PTD required for the end item's assembly, that annotates all related piece(s) or part(s) that appear on the PPL> The SPTD may be the general arrangement, diagrammatic drawing and/or a detailed technical publication, describing the end item, providing the location for all support items or pieces is clearly shown.

NOTE: In general the PTD must provide sufficient information to accomplish the following in accordance with references noted:

1. Technical identification for maintenance support considerations.
2. Review for potential interchanging and substitutability.
3. Standardization with-in the Federal Supply System.
4. Preparation of National Stock Numbers.
5. Procurement from the Vendor and/or the actual manufacturer.
6. Preparation of an allowance list.
7. Item management coding.

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **QAS1** 09/2002
2. Title - **SUBCONTRACTOR QUALITY SYSTEM REQUIREMENTS (U.S. NAVY)**
3. Purpose -
 - A. To provide assurance that the Seller has developed and maintains an adequate quality system consistent with the nature and complexity of the Seller's service.
 - B. To ensure that the Seller conducts and documents specific inspections and tests in accordance with contract requirements.
4. Requirements -
 - A. Quality System Plan -
 - (1) The Seller shall provide to the Buyer's Quality Assurance Department a description of the quality system utilized to ensure services meet purchase order requirements. The seller is to provide objective evidence of its quality system which may be in the form of certifications, quality manual or implementing procedures. If the Seller's quality system has been previously provided to the Buyer it need not be provided again unless specifically requested, or if the Seller has implemented changes to the system since the last submittal.
 - B. Calibration Control -
 - (1) For work items requiring the use of measuring and test equipment, the Seller shall establish and maintain a Calibration Program in accordance with ANSI/NCSL Z540-1, General Requirements for Calibration Laboratories and Measuring and Test Equipment.
 - (2) Certificates of Calibration shall be provided and shall contain, as a minimum, the following information:
 - (a) Buyer's instrument control number (if applicable)
 - (b) Title of report
 - (c) Name and address of laboratory and location where the calibration was carried out
 - (d) Serial number or unique identification of the report itself and of each page and total number of pages
 - (e) Name and address of customer
 - (f) Description of the calibrated item; make, model and serial Number
 - (g) Characteristics and condition of calibrated item
 - (h) Date of calibration
 - (i) Identification of the calibration procedure used
 - (j) Reference to any sampling procedure used where relevant
 - (k) Any deviation from, additions to or exclusions from calibration method
 - (l) Any other information relevant such as environmental conditions
 - (m) Measurements, examinations and derived results
 - (n) A statement of the estimated uncertainty of the calibration results
 - (o) Signature and title of the person accepting responsibility for the content of the report
 - (p) A statement that the results only relate to the item calibrated
 - (q) A statement that the certificate may not be reproduced except in full
 - (r) Special limitations of use
 - (s) Traceability statement
 - (t) Certificates of Calibration can only be amended by further document including the statement "Supplement to Calibration Certificate" (or report) and the serial number of the original certificate

C. Inspection and Test Requirements -

- (1) (I) and (V) Inspections - (I) and (V) are symbols inserted in a work item to establish a point in the sequence of work at which time the inspection or test shall be verified and documented.
 - (a) (I) inspections require verification by a separate individual, other than the person who has accomplished the work, qualified as an inspector.
**The Seller shall maintain a current list of qualified inspectors who are authorized to witness or perform and sign for symbol (I) inspections; the type of tests and inspections for which each inspector is qualified shall be indicated.
 - (b) (V) inspections require verification either by the qualified tradesperson, trade supervisor, or inspector.
- (2) (G) Inspections - (G) is a symbol inserted in a work item to establish a point in the sequence of work at which time the Government Representative shall be notified to permit observation of a specific inspection or test. (Formerly a Checkpoint)
 - (a) Prior to scheduling a (G) Inspection, the Seller shall ensure that all pre-requisite events have been conducted and that required documented preliminary inspection and supporting In-Process Inspection records are on-file.
- (3) In-Process Inspections - Inspections which are performed during the sequence of work or repair cycle in an effort to prevent defects from occurring and to inspect those characteristics which cannot be verified at final inspection or testing.

D. Inspection / Test Plan Record -

- (1) The Inspection/Test Plan Record is a summary of inspections and tests required to be performed during work package accomplishment which have been extracted from the work item specifications.
- (2) It is the intention of the Buyer to provide an Inspection/Test Plan Record for each work item subcontracted to the Seller as guidance in identifying the Seller's responsible inspections and tests.
- (3) Omission of an inspection or test event, or if the Inspection/Test Plan Record is otherwise not provided, does not relieve the Seller from conducting required inspections and tests in order to meet contract specifications.

E. Documentation -

- (1) The Seller shall provide legible and indelible records of completed (I), (V) and (G) inspections and tests. In-Process Inspections may be documented at the Seller's discretion.
- (2) The records shall document the specific inspection actions or tests and provide objective quality evidence of the critical measurements and attributes.
 - (a) Equipment or System, event type, accept/reject criteria, and inspection/test results are to be thoroughly described.
- (3) Records shall include Ship's Name and Hull Number, Job Number, Work Item Numbers, Work Item Paragraph Numbers, Date, and Signature of the Seller's authorized representative who witnessed or performed the inspection or test.
- (4) Inspection and test events requiring the use of calibrated measuring and test equipment must have the instrument's control number, calibration date, calibration due date, and range of the instrument listed on the event record.

- (5) Inspection and test documentation shall be submitted to the Buyer within 24 hours of the event. Records are to be submitted to the responsible Todd Subcontracts Buyer.
- (6) THE SELLER'S INSPECTION RECORDS ARE AN INTEGRAL PART OF THE WORK PACKAGE. THE BUYER WILL CONSIDER THE WORK ITEM TO BE INCOMPLETE IF THE SELLER'S DOCUMENTATION AND RECORDS HAVE NOT BEEN SUBMITTED OR ARE OTHERWISE INCOMPLETE. **FAILURE TO SUBMIT COMPLETE INSPECTION AND TEST RECORDS IN A TIMELY MANNER MAY SUBJECT THE SELLER TO PENALTY.**

F. (G) Point Inspections and Tests -

- (1) When a (G) Point Event is approached at the Seller's facility, within a 50-mile radius of Buyer's facility, the Seller shall notify the responsible Todd Subcontracts Buyer or QA representative.
 - (a) Notification of (G) Point Events shall be at least 6 hours prior to the event.
 - (b) The Seller shall prepare a Test/Inspection Event Authorization (Todd Form TS 649) and fax it to the Buyer's Quality Assurance Project representative or Subcontract Buyer.
- (2) When a (G) Point Event is approached at the Buyer's facility, the Seller shall prepare a Test/Inspection Event Authorization (Todd Form TS 649) and submit it to the Buyer's QA representative or the Todd Subcontracts Buyer.
 - (a) Notification of (G) Point Events shall be at least 4 hours prior to the event.
 - (b) Each Test/Inspection Event Authorization must contain, as a minimum, the following information:
 - ** Ship Number
 - ** Job Number
 - ** Work Item Number and Work Item Paragraph Number
 - ** Thorough Description of Inspection/Test to be performed
 - ** Accept/Reject Criteria
 - ** Location (meeting place)
 - ** Date and Time of Scheduled Event
 - ** Name of Person Accomplishing Preliminary Inspection
- (3) When a (G) Point Event is approached at the Seller's facility, outside of a 50-mile radius of Buyer's facility, the Seller shall notify the Todd Subcontracts Buyer.
 - (a) Notification of (G) Point Events shall be at least 72 hours prior to the event.
 - (b) Upon receipt of the Seller's notification, the Todd QA representative will prepare a Test/Inspection Event Authorization (Todd Form TS 649) and submit it to the Government Representative for scheduling.
 - (c) If the Buyer exercises its option to not attend a (G) Point Event, the Buyer will delegate the Inspection and Test responsibilities to the Seller prior to the scheduled event time. The Seller will forward the completed Test/Inspection Event Authorization to the responsible Todd Subcontracts Buyer.
- (4) In the event that a Government Representative is not present at the scheduled time, the Seller is to proceed with the event after 10 minutes and the results shall be documented by the Seller's Inspection Personnel.

- (5) All applicable portions of the Test/Inspection Event Authorization, including results, shall be thoroughly completed. Event attendees are to be annotated on the event record.

(G) Condition Reports -

- (1) Condition Reports shall be prepared for Work Items requiring submittal of conditions found. The Seller shall assess and report the "as received" condition of each equipment prior to accomplishing any service and/or repair.
- (2) The Condition Report shall contain, as a minimum, the following information:
 - (a) Ship name and Hull number
 - (b) Job number
 - (c) Work Item Number
 - (d) Work Item Paragraph Number
 - (e) Make, model, serial number
 - (f) Pre adjustment/repair condition
 - (g) Details of recommended adjustments/repairs
 - (h) List of recommended parts and/or equipment to be replaced
 - (i) Price for accomplishing recommended repairs
 - (j) Signature of evaluating supervisor and date
- (3) Repairs or adjustments are not to be accomplished without specific authorization of the responsible Todd buyer.
- (4) Condition Reports shall be forwarded to the responsible Todd Subcontracts Buyer within 3 days of the Seller taking receipt of the equipment, or in accordance with contract requirements.
- (5) Unsolicited problem reports are to be submitted to the responsible Todd Subcontracts Buyer in a timely manner for circumstances outside the scope of work item requirements, but which may effect the outcome of the repair action, performance of the equipment, or impact on the schedule.

(H) Nondestructive Testing and Welding -

- (1) Nondestructive testing and nondestructive testing procedures shall be in accordance with NAVSEA Tech. Pub. T9074-AS-GIB-010/271 and MIL-STD-2035. Nondestructive Test Reports are to be submitted to the Buyer within 24 hours of the inspection.
- (2) Welding and welding procedures shall be in accordance with MIL-STD-1689, NAVSEA Tech. Pub. S9074-AR-GIB-010/278 and NAVSEA Tech. Pub. S9074-AQ-GIB-010/248, as appropriate. Welding procedures and personnel welding certifications shall be furnished to the Buyer upon request.

(I) Subcontracting Work -

- (1) If the Seller determines that, to accomplish the requirements of a work item, all or a portion of the work scope must be subcontracted, the Seller shall ensure that the subcontractor to be used has developed and maintains an adequate quality system consistent with the nature and complexity of the subcontractor's service.
- (2) The Seller shall provide to the responsible Todd Subcontracts Buyer, notification of the subcontractor's name, address, phone number, and work item paragraphs to be subcontracted.
- (3) If the Seller will be subcontracting nondestructive testing or welding services the Seller shall provide to the Buyer's Quality Assurance Department, notification of the subcontractor's name, address, phone number, and work item paragraphs to be subcontracted.

(J) General Requirements -

- (1) When a work item requires the Seller to submit a Process Control Procedure (PCP) in accordance with NAVSEA Standard Item 009-09, the PCP is to be submitted to the Buyer's Quality Assurance Department at least 15 working days prior to scheduled start of process.
- (2) The Seller shall not deviate from the work item without submitting a written deviation/waiver request to the responsible Todd Subcontracts Buyer and shall not proceed until receiving written approval from the Buyer.
- (3) Authorization given by the Buyer to ship materials or equipment shall not be construed as acceptance of the materials or equipment. Examination and acceptance of required reports and documentation and actual inspection and testing by the Buyer will determine acceptance by the Buyer.
- (4) MIL-DTL-1222; STUDS, BOLTS, SCREWS AND NUTS FOR APPLICATIONS WHERE A HIGH DEGREE OF RELIABILITY IS REQUIRED:

When Work Item Specifications, Drawings, Technical Manuals, NAVSEA Standard Items or other work guidance documents require the installation of MIL-DTL-1222 Fasteners, the Seller must be able to support that the fasteners comply with the requirements of MIL-DTL-1222 with CHEMICAL AND MECHANICAL TEST REPORTS. Chemical and Mechanical Test Reports shall be furnished to the Todd Project QA Representative upon request.

Examples of NAVSEA Standard Items which require the installation of MIL-DTL-1222 Fasteners are:

009-45, 47, 48, 49, 50, 51, 52, 53, 53, 55 and 96

Should the Seller be unable to obtain MIL-DTL-1222 Fasteners in time to meet the scheduled delivery date of the equipment, the Seller shall submit a Problem Report to the Todd Subcontracts Buyer at the earliest possible date.

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **QAS3** 11/1998
2. Title - **QUALITY SYSTEM PLAN**
3. Description of Data -
 - a. Purpose - To provide assurance that the Seller has developed and maintains an adequate quality system consistent with the nature and complexity of the Seller's product.
 - b. Requirements -
 - (1) The Seller shall provide a description of the quality system utilized to ensure products meet purchase order requirements. The Seller is to provide objective evidence of its quality system which may be in the form of certifications, quality manual or implementing procedures.
4. Submittal -
 - a. The Seller's Quality System Plan is to be submitted to the Buyer's Quality Assurance Department.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **RPT2** 11/1998
2. Title - **CONDITION REPORTS**
3. Description of Data -
 - a. Purpose - To assure the Seller provides the Buyer specific information detailing each equipment's pre-service condition.
 - b. Requirements -
 - (1) The Seller shall assess the "as received" condition of each equipment prior to accomplishing any service and/or repair. The Seller shall prepare a Condition Report for each piece of equipment in a format selected by the Seller. The Condition Report shall contain, as a minimum, the following information:
 - * Ship name and Hull number
 - * Job number
 - * Work item number
 - * Work item paragraph number
 - * Make, model, serial number
 - * Pre adjustment/repair condition
 - * Details of recommended adjustments and/or repairs
 - * List of recommended parts and/or equipment to be replaced
 - * Signature of supervisor and date
 - (2) Condition Reports shall be forwarded to the responsible Todd Subcontracts Buyer within 3 days of the Seller taking receipt of the equipment, or in accordance with contract requirements.
 - (3) Repairs or adjustments are not to be accomplished without the specific authorization of the responsible Todd buyer.
4. Submittal -
 - a. Condition Reports shall be forwarded to the responsible Todd buyer by facsimile transmittal (FAX) at 206-442-8514.

If unable to FAX, mail to:
Todd Pacific Shipyards Corp.
Subcontracts Control Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **SLI1** 05/2004
2. Title - **IDENTIFICATION OF SHELF LIFE MATERIALS**
3. Description of Data -
 - a. Purpose - To obtain from the Seller shelf life information, as applicable, to allow for timely stock rotation and usage of materials that are susceptible to age degradation or deterioration during storage.
 - b. Requirements -
 - (1) The Seller shall identify each item, package or container with the cure date or manufacturing date, expiration date and/or special storage or handling requirements.
 - (2) Shelf life information, including special handling or storage requirements, may be recorded on a certification and signed by the Seller's authorized representative in fulfillment of this SDRL.
 - (3) The Seller shall not deliver to the Buyer any material or product that has less than 25% of its shelf life remaining unless specifically approved by the Buyer.
 - (4) Rubber hose or synthetic rubber hose must not be more than fourteen (14) quarters past the cure date unless specifically approved by the Buyer.
4. Submittal -
 - a. Either marked product or certification shall accompany each delivery.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **TST1** 05/2002
2. Title - **TEST PROCEDURE**
3. Description of Data -
 - a. Purpose - To obtain a description of the Seller's method of testing (other than noise, vibration and shock) utilized in determining compliance with specification requirements (e.g. First Article, Performance Testing, etc.).
 - b. Requirements -
 - (1) The test procedures to be submitted by the Seller shall describe the plan and procedures to be used for accomplishing the tests specified in the contract specifications and schedule. Information submitted shall contain the following data as a minimum:
 - (a) Test Identification - The test identification shall include test name, discrete test identification number, equipment model and serial number, or other identification of the equipment to clearly identify the specific equipment tested.
 - (b) Objective - The objective shall include brief statements describing the test with a clear definition of goals or criteria to be accomplished.
 - (c) List of Test Equipment - The list of test equipment shall include manufacturer, name and modal number and recording space for calibration dates.
 - (d) Test Method - The test method shall be an explicit, step-by-step process, detailing the actions necessary to obtain the required data. It shall also provide for a safety inspection of the equipment for personnel hazards.
 - (e) Data Sheets - Data sheets shall provide spaces for recording the quantitative values determined while conducting each test. Each data sheet shall show specified values and acceptable tolerance limits for each measured value. Each data sheet shall have a space for recording the signatures of the Seller, the Buyer's Customer or Representative of the aforementioned, the test identification, the test date, and ambient conditions. The signing of each test data sheet by the aforementioned parties signifies only that the test was conducted in accordance with the approved test procedure and that all data was accurately recorded.
 - (f) Drawings - Block diagrams, simplified schematics or sketches may be used to clarify the procedure or simplify the test method. Either the test procedure or the drawings shall clearly specify the value of all parameters under test.
 - (g) Comment sheets shall be included to record observations of the Seller, the Buyer and the Buyer's Customer, and other significant events which may occur during conduct of the test.
4. Submittal -
 - a. Test Procedures are to be submitted not later than 30 days after award of Purchase Order.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **TST2** 11/1998
2. Title - **NOTIFICATION OF TESTS**
3. Description of Data -
 - a. Purpose - To Provide the Buyer with Test Schedule Information and subsequent notification of when and where tests will be performed.
 - b. Requirements -
 - (1) Schedule - The Test Schedule shall contain the following information as a minimum:
 - (a) Purchase Order Number
 - (b) Tests to be performed
 - (c) Location of test events
 - (d) Time and date of tests
 - (2) Notification - Test notification shall be not less than ten (10) working days prior to commencement of tests. Notification may be by telephone, and shall be followed by hard copy FAX or mail. The notification shall contain, as a minimum, the following:
 - (a) Purchase Order Number
 - (b) Tests to be performed
 - (c) Location of test site and address
 - (d) Time and date of tests
 - (e) Point of contact and telephone number
 - (f) Personnel identified by name and title to be in attendance at tests
 - (3) Cancellation - Test cancellation shall be not less than four (4) working days prior to the scheduled event. Cancellation may be by telephone, and shall be followed by hard copy FAX or mail.
4. Submittal -
 - a. Test event notification/cancellation shall be made to the responsible Todd Shipyard buyer.

Todd Pacific Shipyards Corp.
Purchasing Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **TST4** 11/1998
2. Title - **ACCEPTANCE TEST REPORTS**
3. Description of Data -
 - a. Purpose - To obtain from the Seller reports of routine factory testing which the manufacturer conducts in support of his quality program. It is not the intent of this SDRL to invoke or require upon the Seller any additional testing beyond that which the equipment manufacturer usually performs.
 - b. Requirements -
 - (1) Test reports may be in a form of the Sellers choosing.
 - (2) Test reports should contain the following information:
 - (a) Tests conducted
 - (b) Acceptance criteria
 - (c) Test Results Data
 - (d) Signature or stamp of person conducting tests and accepting the product
4. Submittal -
 - a. Test reports are to accompany the equipment at delivery.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **TST5** 11/1998
2. Title - **PERFORMANCE TEST REPORTS**
3. Description of Data -
 - a. Purpose - To obtain from the Seller test reports which represent the equipment's performance characteristics and integrity, in accordance with contract specification requirements. The test reports shall state that the specification, drawing or other required performance or quality conformance tests have been performed, criteria met and that applicable data was quantified and recorded.
 - b. Requirements -
 - (1) Test reports may be in a form of the Sellers choosing.
 - (2) Test reports shall contain the following information:
 - (a) Tests conducted
 - (b) Acceptance criteria
 - (c) Test Results Data
 - (d) Corrective action taken
 - (e) Departures from approved methods
 - (f) Preventative maintenance action
 - (g) Signature or stamp of person conducting tests and accepting the product
4. Submittal -
 - a. Test reports are to accompany the equipment at delivery.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **WLD1** 11/1998
2. Title - **WELDING PROCEDURE QUALIFICATION DATA**
3. Description of Data -
 - (a) Purpose - Welding procedure qualification data provides the means of establishing whether the Seller can produce acceptable welds which meet destructive and nondestructive test requirements for the base materials, filler materials and welding processes involved.
 - (b) Requirements -
 - (1) Welding procedure qualification is to be conducted in accordance with the applicable standard for contract specific requirements.
 - (2) The welding procedure qualification data shall include all the essential information specified in the references, the destructive and nondestructive test results and repair data, if applicable.
 - (3) The format shall be as presented herein or presented in a format acceptable to recognized code bodies such as A.S.M.E.
4. References -
 - a. NAVSEA Tech. Pub. S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification
 - b. American Bureau of Shipping (ABS) Rules for Building and Classing Steel Vessels
 - c. American Society of Mechanical Engineers (ASME) Chapter 9, Qualification Standard for Welding and Brazing Procedures, Welders, Brazers and Welding and Brazing Operators
5. Submittal -
 - a. Qualification Data Reports are to be submitted prior to the start of fabrication or repair welding.

Todd Pacific Shipyards Corp.
Quality Assurance Department
1801 16 Ave. SW
Seattle, WA 98134

SUBCONTRACTOR DATA REQUIREMENTS LIST (SDRL)

1. SDRL No. - **WLD2** 11/1998
2. Title - **WELDING PROCEDURES**
3. Description of Data -
 - (a) Purpose - To provide assurance that the Seller's production welding procedures have been previously approved by the Supervisor of Shipbuilding, NAVSEA, U.S. Coast Guard or the American Bureau of Shipping, or are appropriate to applicable fabrication requirements.
 - (b) Requirements -
 - (1) Welding procedures are to be prepared in accordance with the applicable standard for contract specific requirements.
 - (2) Welding procedures shall contain all the essential elements specified in the references. Sketches, drawings and photographs may be included to fully describe or clarify the procedure.
 - (3) The format shall be as presented herein or presented in a format acceptable to recognized code bodies such as A.S.M.E.
4. References -
 - a. NAVSEA Tech. Pub. S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification
 - b. American Bureau of Shipping (ABS) Rules for Building and Classing Steel Vessels
 - c. American Society of Mechanical Engineers (ASME) Chapter 9, Qualification Standard for Welding and Brazing Procedures, Welders, Brazers and Welding and Brazing Operators
5. Submittal -
 - a. Welding procedures are to be submitted prior to the start of fabrication or repair welding.

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1801 16 Ave. SW
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