

## QUALITY VERIFICATION DOCUMENT REQUIREMENTS

| 1.<br>DOCUMENT<br>CATEGORY<br>NUMBER | 2.<br>SPECIFICATION<br>PARAGRAPH<br>REFERENCE | 3.<br>DOCUMENT<br>DESCRIPTION             | 4.<br>BECHTEL<br>RELEASE | 5.<br>FIELD<br>RECEIPT<br>INSPECTION<br>CHECK-IN | 6.<br>REMARKS | 7.<br>DOC.<br>SELLER<br>PAGE<br>COUNT |
|--------------------------------------|---|---|--------------------------|--|---------------|---------------------------------------|
| 26.0                                 | J0004, para 9.1 & 6                           | Performance Test and Verification Reports |                          |  |               |                                       |

|   |   |  |                          |
|---|---|--|--------------------------|
| 8. SELLER'S ORDER NO.   | 9. SELLER'S PART NO.                    | 10. SELLER'S PART NAME   | 11. QUANTITY             |
| 12. BECHTEL PO. NO.   | 13. BECHTEL'S EQUIPMENT TAG OR CODE NO. | 14. BECHTEL'S PART NAME  | 15.                      |
| 16. SELLER'S CONFORMANCE STATEMENT<br>We certify that the work and required documents meet the requirements of the procuring documents.   |   | Authorized Seller Signature  | Title<br>Date            |
| 17. SUPPLIER QUALITY REPRESENTATIVE AT PLANT<br>Work was released based on satisfactory completion of quality surveillance and review of documentation.                               |   | <input type="checkbox"/> WITH AUTHORIZED DEVIATIONS NOTED IN COLUMN 6<br><input type="checkbox"/> NO DEVIATIONS  | Signature of SQR<br>Date |
| 18. RECEIVING INSPECTION AT THE FIELD<br>This form and the Quality Verification Documents referenced hereon have been received and their relationship to the hardware items verified. |   | Signature of Bechtel Field Inspector<br>Date   |                          |
| 19. FORWARD COPIES TO:  |   | SPECIAL INSTRUCTIONS:<br>1. One hard copy of each Quality Verification Documentation (QVD) package shall accompany each shipment. Refer to Engineering Specification for Seller Document Requirements, 24852-RD-3PS-000-T0004.<br>2. One PDF file of each QVD package shall be submitted to Buyer. See form G-321-E, Category 36.0 and Note b. |                          |

|        |  |   |                   |
|--------|--|---|-------------------|
| G321-V | 20. MATERIAL REQUISITION/PURCHASE ORDER TITLE<br>CCTV System Design, Engineering, Hardware,<br>Installation Support & Test | 21. JOB NO. 24852<br><br>MATERIAL REQUISITION NO.<br>24852-MRA-EEC0-00001 | 22. MR REV. NO. 0 |
|        | <b>QUALITY VERIFICATION DOCUMENT REQUIREMENTS</b><br>© 2001 Bechtel Corporation  |   |                   |

**PUEBLO CHEMICAL AGENT-DESTRUCTION  
PILOT PLANT (PCAPP) PROJECT  
BECHTEL JOB NO. 24852**

**INSTRUCTIONS FOR THE PREPARATION OF FORM G-321-V  
(QUALITY VERIFICATION DOCUMENT REQUIREMENTS)**

- A. **PURPOSE:** the G-321-V is initially prepared by Bechtel Engineering and completed by the Seller when providing Quality Verification Documents to Bechtel in support of the work. The G-321-V is a multipurpose form to:
- (1) Transmit quality verification documents from the Seller.
  - (2) Provide a Certificate of Conformance from the Seller.
  - (3) Evidence SQR release of documentation and/or work.
  - (4) Provide evidence of a Field Inspection check of the quality verification documentation received at the installation site.
- B. **GENERAL INFORMATION:** Instructions for filling out the G-321-V form is found in Section "E." Detailed quality verification document definitions are found in G-321-V - Supplement A.
- C. **DISTRIBUTION:** Quality verification documents required to be provided by the G-321-V form shall be forwarded to the group(s) and destination(s) designated under entry #19, "Forward copies to".
- D. **DEFINITIONS OF TERMS:** (Also see Document Category Definitions G-321-V - SUP A).

The terms Buyer and Seller, which are used in Purchase Orders, are used in this form. For subcontracts, the terms Contractor, Subcontractor, and Subcontract should be substituted for Buyer, Seller, and Purchase Order, respectively. Where the word Supplier is well established in a title (e.g., Supplier Quality Representative), it will be maintained.

Reproducible - A master copy which can be legibly duplicated by either microreproduction, diazo or electrostatic process. Diazo sepias may be submitted only if they meet and satisfy Bechtel microfilming requirements.

Microfilm - Film containing an image reduced in size from the original, and capable of being enlarged to a clear reproduction of the original. Drawings submitted as final show title, job number, purchase order number, line, equipment, tag or code number and the manufacturer's serial number.

E. **BECHTEL ENTRY INSTRUCTIONS:**

| Entry No | Information Required   |
|----------|--|
| 1.       | Enter Document Category Number.  |
| 2.       | Enter Specification Paragraph Reference.   |
| 3.       | Enter Abbreviated Description Corresponding to the Document Category Number.   |
| 4.       | SQR to complete upon release and sign on line 17.  |
| 5.       | Bechtel field Inspection at the jobsite to complete Check-in and sign on line 18.  |
| 6.       | Enter "Remarks" as appropriate. When a deviation has occurred, reference the deviation(s) and Authorization Document(s) in this column, and include the authorization document(s) in the verification package.   |
| 12.      | Enter Purchase Order number (generated automatically by BPS).  |
| 17.      | Upon inspection and verification against the Supplier Quality Verification Documentation Package in accordance with the applicable supplier quality surveillance procedures, notation of <b>authorized</b> deviations, if any, and checking the appropriate block, the SQR or Authorized Representative signs and dates the release. |

**SELLER ENTRY INSTRUCTIONS:**

| Entry No. | Information Required   |
|-----------|--|
| 7.        | Enter the number of pages of Quality Verification Document being submitted, corresponding to the units being released. Sign Entry 16.  |
| 8,9,10    | Enter information required.  |
| 11.       | Enter the quantity of units covered by the Quality Verification Documents being submitted. For each item No. (Entry 12) being released, provide a separate copy of the completed form and the supporting Quality Verification Documents. |
| 13,14     | Enter information required.  |

| Entry No. | Information Required  |
|-----------|---|
| 18.       | Upon receipt of the Quality Verification Documentation Package at the jobsite, the Field Inspector will review the documents and the appropriate hardware. If found to be satisfactory, he signs and dates the check-in statement, routes hardware to storage and files the form. |
| 19.       | Enter the name and address to whom items or documents are to be forwarded.  |
| 20.       | Enter title of Material Requisition/Purchase Order (generated automatically by BPS).  |
| 21, 22    | Enter Material Requisition number and revision (generated automatically by BPS).  |

| Entry No. | Information Required   |
|-----------|--|
| 15.       | Open - This space to be identified and used for traceability. If or when appropriate, enter identification numbers, serial numbers, Heat numbers, etc.                             |
| 16.       | Seller - Signature of an employee of the Seller identified in the QA Manual or by Seller's letter as authorized to sign such documents.  |
| 19.       | Upon Inspection Release, a PDF file of each Quality Verification Documentation package is forwarded to Buyer. A complete copy of the QVD shall accompany the hardware to the site. |

**QUALITY VERIFICATION  
DOCUMENT CATEGORY DEFINITIONS  
G-321-V - SUP A**

- (V) - Quality Verification Documents. This term comprises material test reports, heat treatment charts, welding records, NDE results, performance test reports, and similar document(s), which demonstrate or certify conformance to the technical or inspection requirements of the procurement documents.
- 12.0 WELDING QUALIFICATION VERIFICATION REPORTS - A verification report of welds performed including the identification of the qualified weld(s), and certification that the weld(s) were qualified.
- 13.0 MATERIAL VERIFICATION REPORTS - Reports relative to material which confirm, substantiate or assure that an activity or condition has been implemented in conformance with code and material specifications imposed by the procurement documents.
- 14.0 MAJOR REPAIR VERIFICATION REPORTS - Verification reports may include weld repair locations (maps), material test reports for filler material, pre- and post-weld heat treatment records, NDE records, etc. The resolution of whether a repair is major or not is a Bechtel responsibility.
- 15.0 CLEANING AND COATING VERIFICATION REPORTS - Verification reports include certification of visual examination for surface preparation, surface profile, materials, etc., humidity data and coating thickness data as required by the procurement documents.
- 16.0 HEAT TREAT REPORTS - Verification reports normally include furnace charts or similar records which identify and certify the item(s) treated, the procedures used, furnace atmospheres, time at temperature, cooling rate, etc.
- 17.0 MATERIAL PROPERTY REPORTS
- 17.1 MTR (Material Test Reports) - These reports include all chemical, physical, mechanical, and electrical property test data required by the material specification and applicable codes. This is applicable to cement, concrete, metals, cable jacket materials, rebar, rebar splices, etc.
- 17.2 Impact Test Data - Results of Charpy or drop weight tests including specimen configuration, test temperature and fracture data.
- 17.3 Ferrite Data - Report of the ferrite percentage for stainless steel materials used, including castings & welding filler metals as deposited.
- 17.4 Material Certificate of Compliance - Verification document which certifies conformance to the requirements of the applicable material specification.
- 17.5 Electrical Property Reports - Report of electrical characteristics, e.g., dielectric, impedance, resistance, flame tests, corona, etc.
- 17.6 Certificate of Compliance – Certified statement from the Seller that the material supplied meets the requirements specified in the Purchase Order.
- 18.0 CODE COMPLIANCE - Verifying documents (such as Forms U-1, N-1, State, etc.), which are prepared by the manufacturer or installer and certified by the Authorized Code Inspector.
- 19.0 UT - ULTRASONIC EXAMINATION AND VERIFICATION REPORTS - Examination results of presence and certain characteristics of discontinuities and inclusions in material by the use of high-frequency acoustic energy.
- 20.0 RT - RADIOGRAPHIC EXAMINATION AND VERIFICATION REPORTS - Examination results of presence and certain characteristics of discontinuities and inclusions in materials by x-ray or gamma-ray exposure of photographic film.
- 21.0 MT - MAGNETIC PARTICLE EXAMINATION AND VERIFICATION REPORTS - Examination results of surface (or near surface) discontinuities in magnetic materials by distortion of an applied magnetic field.
- 22.0 PT - LIQUID PENETRANT EXAMINATION AND VERIFICATION REPORTS - Examination results of surface discontinuities in materials by application of a penetrating liquid in conjunction with suitable developing techniques.
- 23.0 EDDY CURRENT EXAMINATION AND VERIFICATION REPORTS - Examination results of discontinuities in material by distortion of an applied electromagnetic field.
- 24.0 PRESSURE TEST - HYDRO, AIR, LEAK, BUBBLE OR VACUUM TEST AND VERIFICATION REPORTS - Results of hydrostatic or pneumatic structural integrity and leakage tests.
- 25.0 INSPECTION AND VERIFICATION REPORTS - Documented findings resulting from an inspection.
- 26.0 PERFORMANCE TEST AND VERIFICATION REPORTS - Report of test results.
- 26.1 Mechanical Tests, e.g., pump performance data, valve stroking, load, temperature rise, calibration, environment, etc.
- 26.2 Electrical Tests, e.g., load, impulse, overload, continuity, voltage, temperature rise, calibration, saturation loss, etc.
- 27.0 PROTOTYPE TEST REPORT - Report of the test which is performed on a standard or typical example of equipment, material or item, and is not required for each item produced in order to substantiate the acceptability of equal items. This normally includes tests which may, or could be expected to, result in damage to the item(s) tested
- 28.0 MATERIAL SAFETY DATA SHEETS – Data sheets specifying material specific properties and required safety protective measures.
- 33.0 NOT USED
- 34.0 NOT USED
- 35.0 ALIGNMENT VERIFICATION