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FOLEY

ELECTRICAL CONTRACTORS

QCP-2A
REV. 0
DATE: 10-31-83

QUALITY CONTROL PROCEDURE FOR EVALUATION, APPROVAL, AND CONTROL OF MATERIAL, AND SERVICE SUPPLIERS

APPROVED FOR CONSTRUCTION

ENGINEERING MANAGER

APPROVED C.W. Needham DATE 10-10-83

QUALITY DIRECTOR

APPROVED JKW DATE 10/10/83

PROJECT MANAGER

APPROVED [Signature] DATE 10-10-83

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-7377

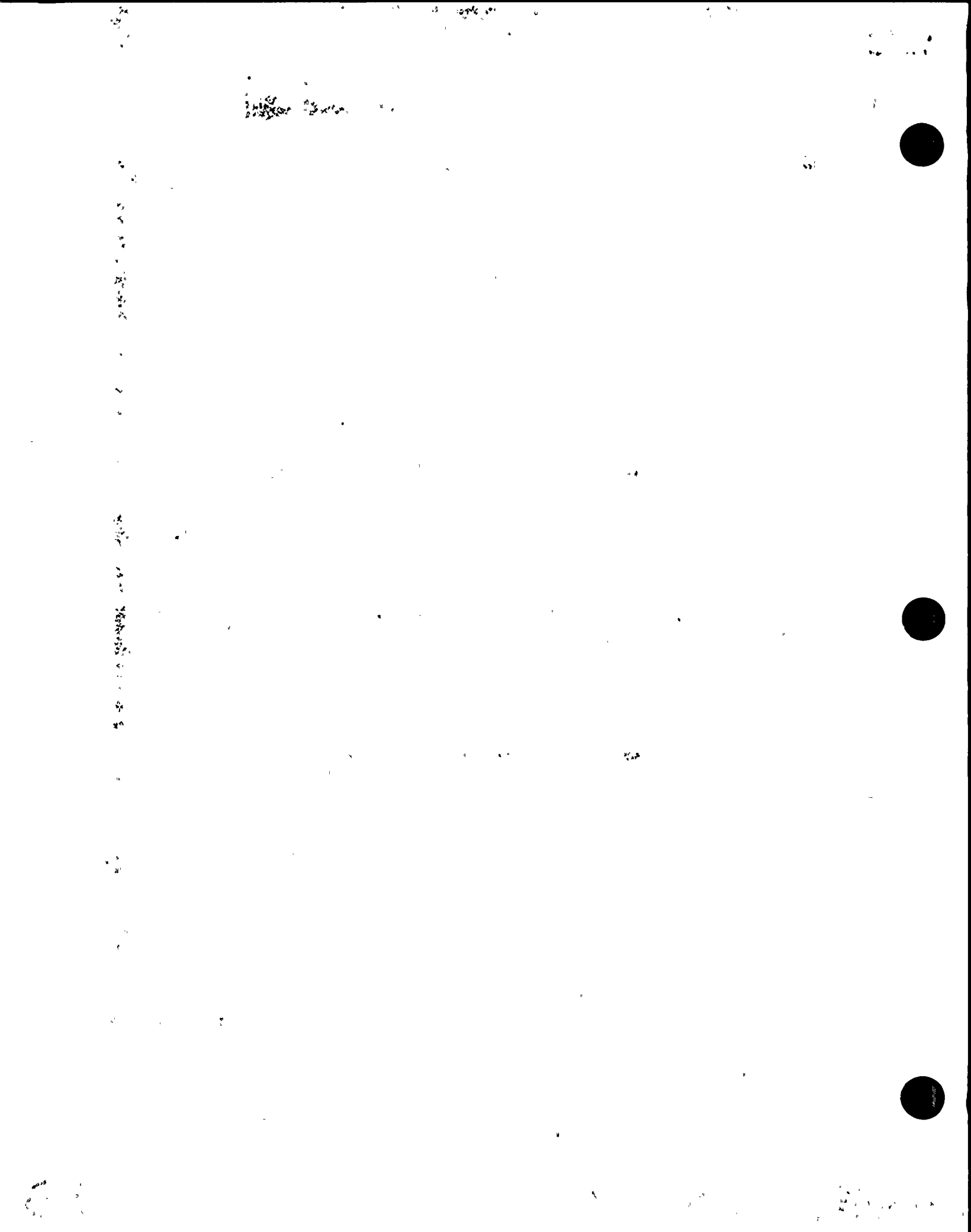
Offices:
ALLENTOWN, PENNSYLVANIA
BALTIMORE, MARYLAND
CHICAGO, ILLINOIS
DALLAS, TEXAS
HARRISBURG, PENNSYLVANIA
HOUSTON, TEXAS
LOS ANGELES, CALIFORNIA
MARTINEZ, CALIFORNIA
MEMPHIS, TENNESSEE
NEW ORLEANS, LOUISIANA
PHILADELPHIA, PENNSYLVANIA
PHOENIX, ARIZONA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
SALT LAKE CITY, UTAH
TAMPA, FLORIDA
TUCSON, ARIZONA
WASHINGTON, D.C.

Canadian Subsidiary:
EDMONTON, ALBERTA

APPROVAL (AS NOTED)	
<input type="checkbox"/>	Approved as to Substance
<input type="checkbox"/>	Subject to Notations Shown
<input type="checkbox"/>	Not Approved
<input type="checkbox"/>	Revised Drawings Required
<input type="checkbox"/>	Furnish Reproductions
<input checked="" type="checkbox"/>	Approved for Construction
Resident Engineer: <u>[Signature]</u>	
By _____	Date <u>10/10/83</u>
PACIFIC GAS & ELECTRIC CO. Diablo Canyon	

THE HOWARD P. FOLEY COMPANY

PG&E G.C. QUALITY CONTROL	
REVIEWED <u>[Signature]</u>	
DATE <u>10/17/83</u>	



1. SCOPE

This procedure establishes the requirement for evaluating Manufacturers, Suppliers, and Vendors for inclusion on The Howard P. Foley Company's Approved Suppliers List. The procedure provides the methods for evaluating potential suppliers and the means for controlling approved suppliers.

2. REFERENCES

2.1 The Howard P. Foley Company Quality Assurance Manual Section IV, "Procurement Document Control".

2.2 The Howard P. Foley Company Quality Assurance Manual Section VII; "Control of Purchased Material, Equipment, and Services".

2.3 The Howard P. Foley Company "Quality Control Procedure for Material and Service Procurement".

3. RESPONSIBILITIES

3.1 The Project Manager shall be responsible for employing all measures necessary to accomplish the work in accordance with the requirements of the contract documents and this procedure.

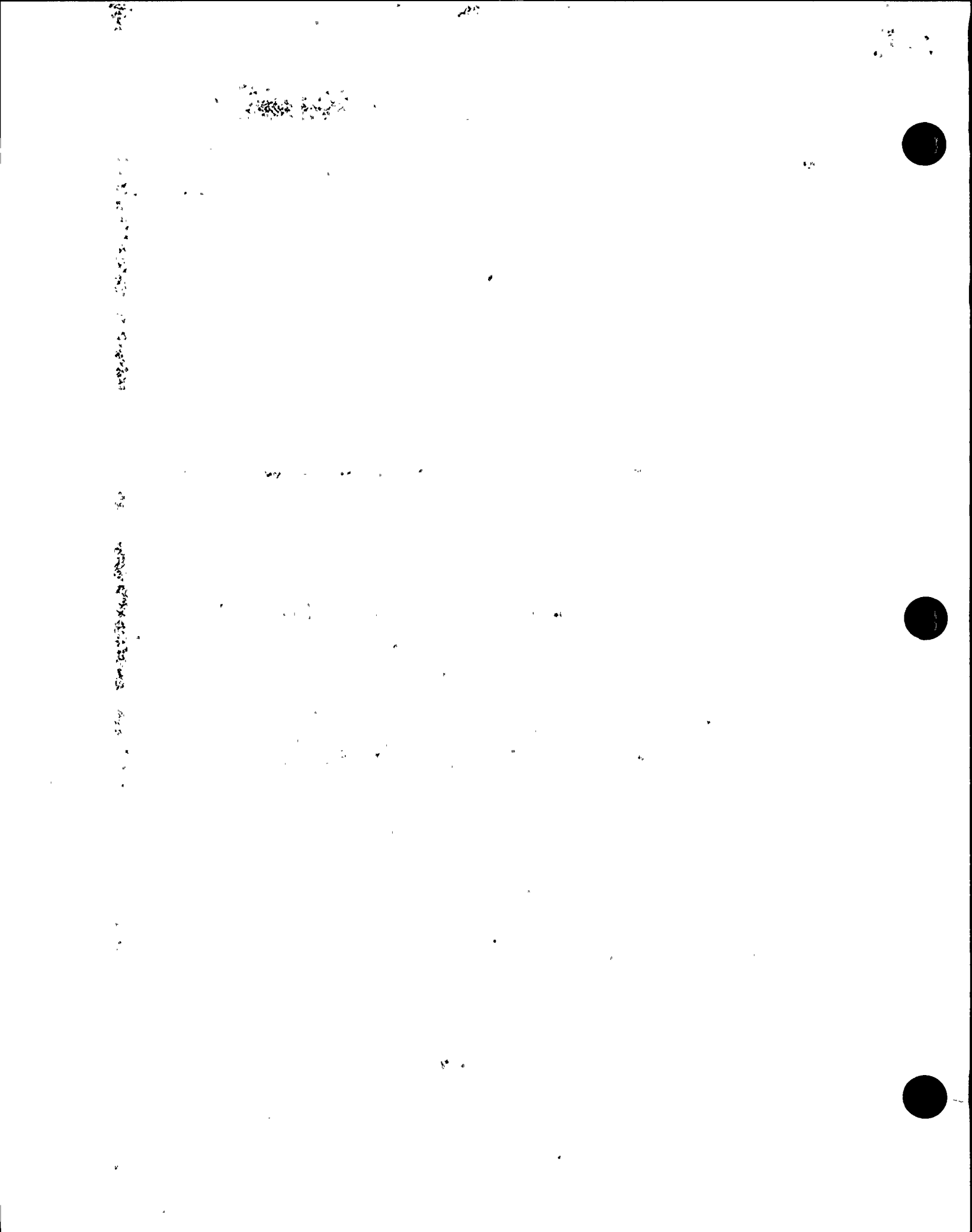
3.2 The Engineering Manager is responsible for assignment of personnel to develop the quality requirements to which material and service suppliers must comply and is responsible for the technical capabilities evaluation of potential suppliers.

3.3 The Material Superintendent is responsible for the coordinated exchange of information between The Howard P. Foley Company and the suppliers. He shall procure materials and services in accordance with the provisions of this procedure.

3.4 The Quality Director is responsible for assessment of th potential supplier. The Quality Director shall determine the acceptability of the Supplier's Quality Assurance Program and its implementation. The Quality Director is responsible for the assignment of personnel to develop, maintain, and control the Approved Suppliers List.



THE
HOWARD P. FOLEY
COMPANY



4. METHOD

4.1 The Procurement Department shall purchase materials and services in accordance with QCP-2. For Class-I CQ classifications of materials or services (ref. Appendix A), procurements shall be from suppliers included in the Approved Suppliers List (Exhibit 1); or purchased material shall be tested, evaluated, and certified to conform to the design requirements of the Purchase Order by a supplier included in the Approved Supplier List; or purchased material is designated within applicable design control documents and is a noncomplex, not unique to the nuclear industry, fabricated item ("off the shelf" or "catalog" items).

4.2 The Approved Suppliers List (Exhibit 1) shall be developed by Quality Assurance from Supplier Approval Request forms HPF/SAR (Exhibit 2) which have been approved.

4.3 A Supplier Approval Request form shall be initiated by either the Engineering Department, Procurement Department, or Quality Assurance Department for each potential supplier of Class-I or CQ Materials/Services.

4.3.1 Suppliers of material specified in Pacific Gas and Electric Company design control documents shall be considered approved for items specified.

4.3.2 Suppliers currently approved by ASME, Bechtel Power Corporation, or CASE shall be so noted on form HPF/SAR prior to submittal to Pacific Gas and Electric Company (PG&E) for approval. No further evaluation by The Howard P. Foley Company is required.

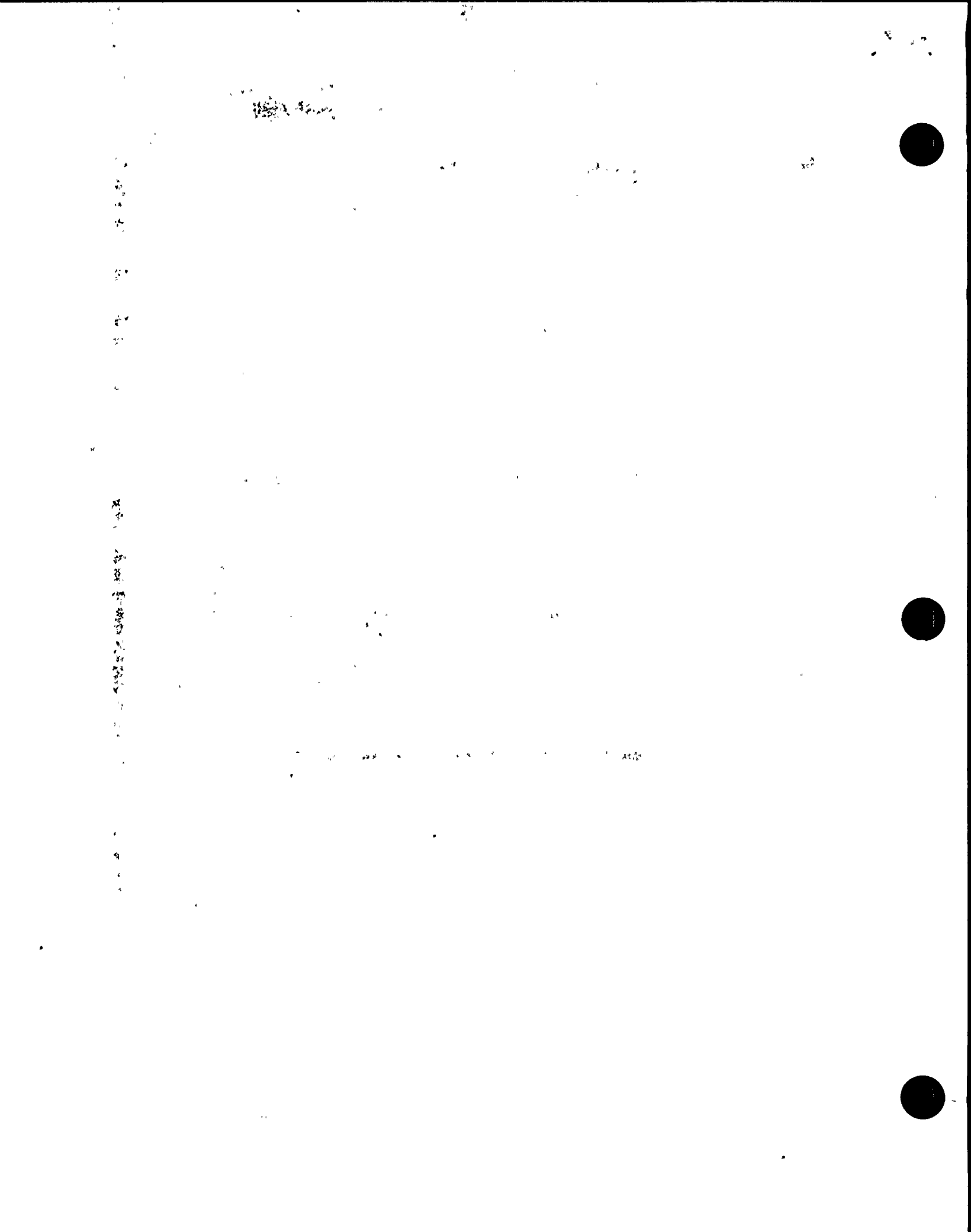
4.3.3 Potential suppliers evaluated by The Howard P. Foley Company (ref. Para. 5.1), shall be submitted to the PG&E for approval.

4.4 Procurement of material from suppliers not included in the Approved Suppliers List is acceptable under the following conditions:

- a) The material is not available from an approved source.
- b) Material supplied shall be tested/analyzed by an approved facility from the Approved Suppliers List.



THE
HOWARD P. FOLEY
COMPANY



c) Material can be adequately inspected during receiving inspection and data is reviewed prior to use/installation (noncomplex, nonunique fabricated items only)

5. QUALIFICATION OF SUPPLIERS

5.1 The Howard P. Foley Company is responsible for evaluating and approving material and services suppliers where:

- a) Requested to do so by PG&E.
- b) The Howard P. Foley Company is responsible for design.
- c) Services are to support inspection, test, or examination activities within the scope of The Howard P. Foley Company contractual obligations.

5.2 Suppliers shall be evaluated to the Quality elements delineated on The Howard P. Foley Company's Supplier Quality Requirements Form, (HPF/SQR, Exhibit 3) by the HPF Project Engineer for the type of material or service required.

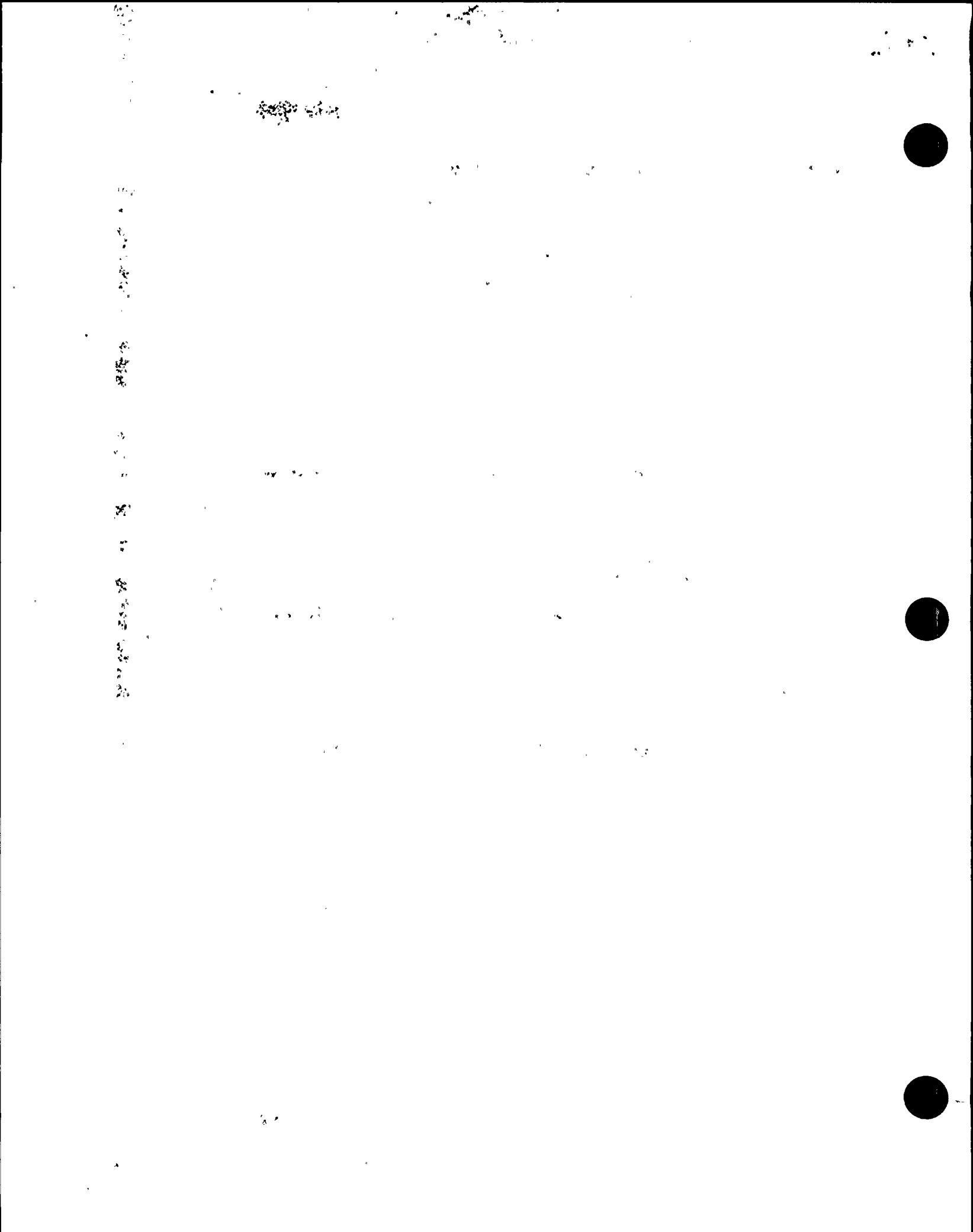
5.2.1 Evaluations performed at the request of PG&E shall be accomplished in accordance with their requirements for the material or service to be supplied. The quality program requirements as provided by PG&E, shall be transcribed onto Form SQR by the HPF Project Engineer and submitted to Quality Assurance for concurrence and action.

5.2.2 Suppliers subject to The Howard P. Foley Company design requirements shall be evaluated by the HPF Project Engineer for technical capabilities and by Quality Assurance for the requirements delineated in the applicable Form SQR for the material or service to be supplied.

5.2.3 Evaluation of service suppliers, in support of The Howard P. Foley Company Quality Assurance Program, shall be accomplished to the requirements delineated by the Quality Assurance Director on Form SQR for the service required.



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4. DOCUMENTATION

6.1 All initiated HPF/SAR's transmitted for approval to PG&E shall be traced and logged by Quality Assurance. The log shall indicate supplier, material/service description, date transmitted to PG&E, date returned from PG&E, and approval status.

6.2 Approved HPF/SAR's shall be maintained as a Quality Record by the Quality Assurance Department. HPF/SAR's with current approval shall form the Approved Suppliers List.

6.3 Supplier Quality Requirement (SQR) forms completed by the Engineering Department, shall be maintained and updated by Engineering. The SQR Form is not a record until it is utilized in the supplier evaluation, at which time it becomes a part of the evaluation package.

7. ATTACHMENTS AND EXHIBITS

7.1 Appendix A - "QUALITY CLASSIFICATION OF MATERIALS AND SERVICES"

7.2 EXHIBIT 1 - "APPROVED SUPPLIERS LIST"
(facsimile, not for use)

7.3 EXHIBIT 2 - "SUPPLIER APPROVAL REQUEST"
(HPF/SAR)

7.4 EXHIBIT 3 - "SUPPLIER QUALITY REQUIREMENTS"
(HPF/SQR)



THE
HOWARD P. FOLEY
COMPANY

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QUALITY CLASSIFICATION
OF MATERIALS & SERVICES

CLASSIFICATION

DEFINITION

PROCUREMENT QUALITY
REQUIREMENTS

PURCHASE ORDER

Class I & IE

Engineered Item or Service - Unique design or critical/special parameters, tolerances which exceed Commercial standards and item is dedicated to specific predetermined safety. Related System(s) or Component(s), or is otherwise dictated by The Howard P. Foley Co. or is so required by the client.

Approved Supplier/Receiving Inspection or Unapproved Supplier... With applicable Tests and Certifications from an approved Testing Facility/Receiving Inspection.

1. Purchase Order
2. Item Number(s)
3. Description
4. Technical Requirements
5. Special Process: (Welding NDE) Requirement & Submittals
6. USNRC Regulatory Requirements
7. Special Handling & Storage
8. Document Submission & Retention

Commercial Quality (CQ)

Item manufactured to Commercial Specifications or Standards and use is not dedicated to specific Safety Related System(s) or Component(s). Item may be installed or fabricated into Safety Related System(s) or Component(s).

Specified in Owner's Specification drawing. Receiving inspection, Approved Supplier when specified.

Commercial Non-Quality (NQ)

Item manufactured/fabricated or a service to commercial or client standards or specifications which would not be used in or for a Safety Related System or Component.

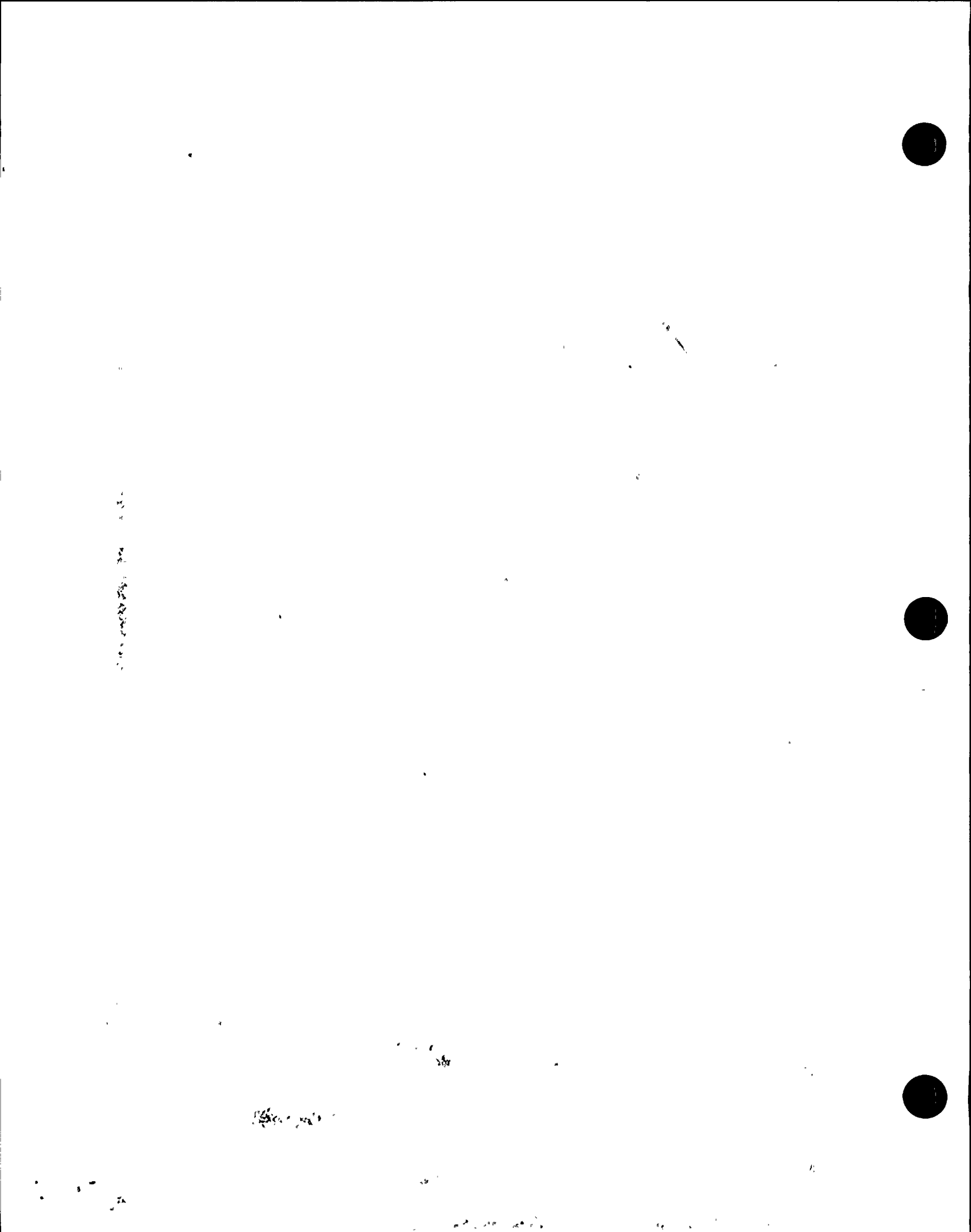
Quality Review of Requisition

1. Purchase Order
2. Item Number (s)
3. Description
4. Technical Requirements

Administrative

Office Supplies and services used to support construction activities but which will not become a part of the permanent plant.

1. Purchase Order
2. Item Number(s)
3. Description

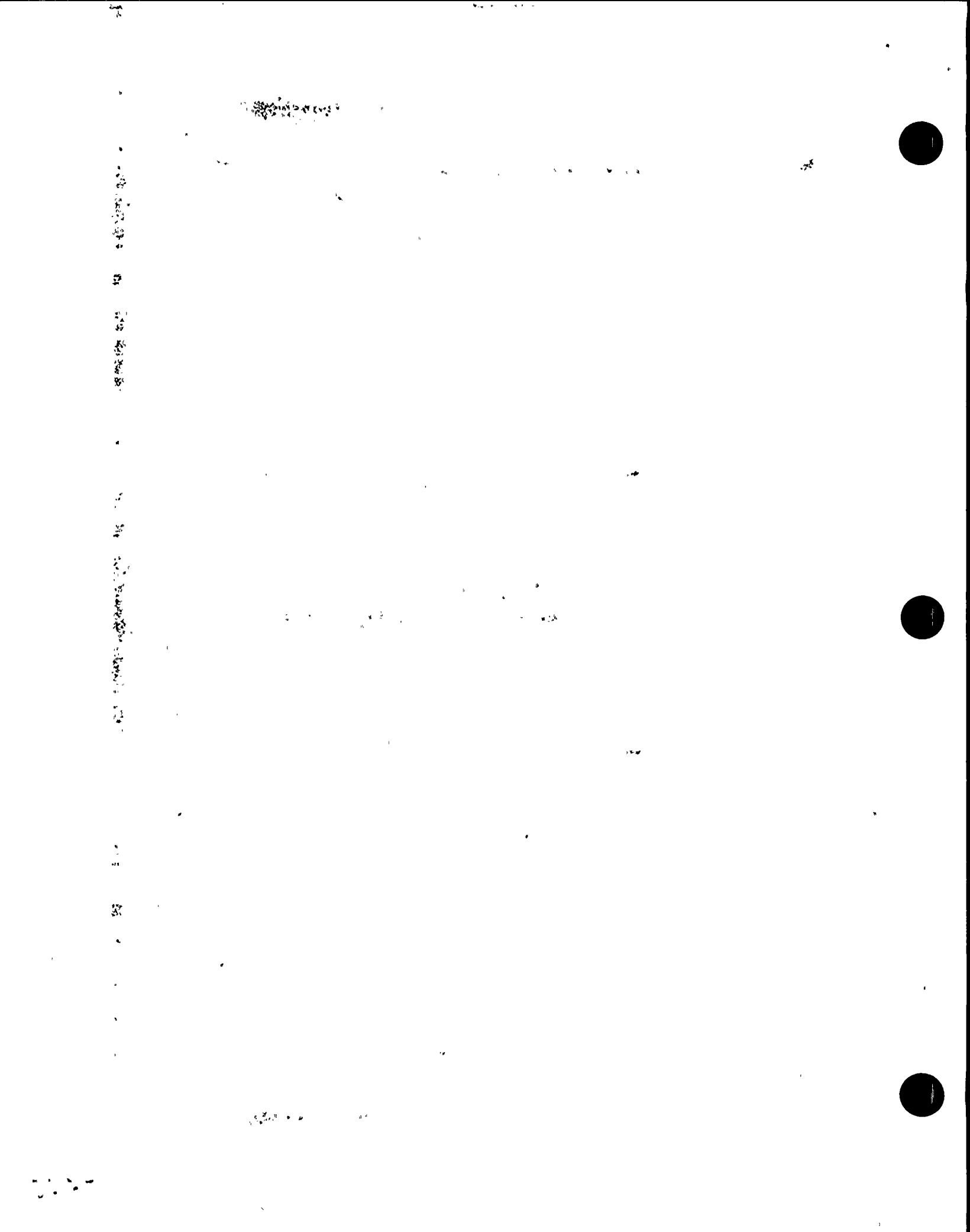


DATE OF:
9-12-83

EXHIBIT
QCP-2A

SUPPLIER NAME AND LOCATION	DATE OF QUALIFICATION	PRODUCT(S) OR SERVICE(S) QUALIFIED FOR:	DATE OF EXPIRATION	COMMENTS
A&G Engineering Co., Inc. 4640 East LaPalma Ave. Anaheim, Calif. 92806	7-18-83	Manufacturer of ferrous and non-ferrous bolting at location only.	6-11-85	
Alloy Rods/Chemtron Corp. Wilson Ave. Hanover, PA 17331	7-20-83	Manufacturer of ferrous and non-ferrous welding and brazing material at this location only.	9-8-84	
Anchor Packing Co. 22600 S. Avalon Carson, Calif.	8-8	Anchortite gasket material	Upon Notification by P.G. & E.	
Allied Nut & Bolt King of Prussia, PA.	8-15-83	Studs, Nuts and Bolts.	Upon Notification	

FOR INFORMATION ONLY



DATE _____

SUPPLIER QUALITY REQUIREMENTS

The Supplier's facility and Q.A. Program shall be evaluated for supplying the following material/services:

Quality Assurance elements, as described in ASNI N45.2 1977 QUALITY ASSURANCE PROGRAM REQUIREMENTS FOR NUCLEAR FACILITIES are mandatory prerequisites and must be included in the Supplier's approved Quality Assurance Manual, when listed as required herein.

<u>QA ELEMENT</u>	<u>REQ.</u>	<u>N/A</u>	<u>QA ELEMENT</u>	<u>REQ.</u>	<u>N/A</u>
QUALITY ASSURANCE PROGRAM	---	---	CONTROL OF SPECIAL PROCESSES	---	---
ORGANIZATION	---	---	INSPECTION	---	---
DESIGN CONTROL	---	---	TEST CONTROL	---	---
PROCUREMENT DOCUMENT CONTROL	---	---	CONTROL OF MEASURING AND TEST EQUIPMENT	---	---
INSTRUCTIONS, PROCEDURES AND DWGS.	---	---	HANDLING, STORAGE AND SHIPPING	---	---
DOCUMENT CONTROL	---	---	INSPECTION, TEST, AND OPERATING STATUS	---	---
CONTROL OR PURCHASED MATERIAL, EQUIPMENT, AND SERVICES	---	---	CORRECTIVE ACTION	---	---
IDENTIFICATION AND CONTROL OF MATERIAL, PARTS, AND COMPONENTS	---	---	QUALITY ASSURANCE RECORDS	---	---
			AUDITS	---	---

APPROVALS ARE REQUIRED FOR THE FOLLOWING PRIOR TO INITIATION OF WORK. WELDING PROCEDURES ___; NON-DESTRUCTIVE EXAMINATION PROCEDURES ___; TEST PROCEDURE ___; SHOP DRAWINGS ___; OTHER _____

H.P.F. Project Engineer _____ Date _____

H.P.F. Quality Assurance _____ Date _____

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EXHIBIT 2 QCP-2A
Number _____
Date _____

THE HOWARD P. FOLEY COMPANY
SUPPLIER APPROVAL REQUEST

TO: _____ FROM: _____

ATTENTION: _____

SUPPLIER: _____ ADDRESS: _____

MATERIAL/SERVICE: _____

TECHNICAL EVALUATION RESULTS: _____

Q.A. EVALUATION RESULTS: _____

HOWARD P. FOLEY COMPANY APPROVALS:

PROJECT ENGINEER: _____ DATE: _____

QUALITY ASSURANCE: _____ DATE: _____

PACIFIC GAS AND ELECTRIC COMPANY

COMMENTS: _____

APPROVALS:

DATE: _____

DATE: _____

DATE: _____

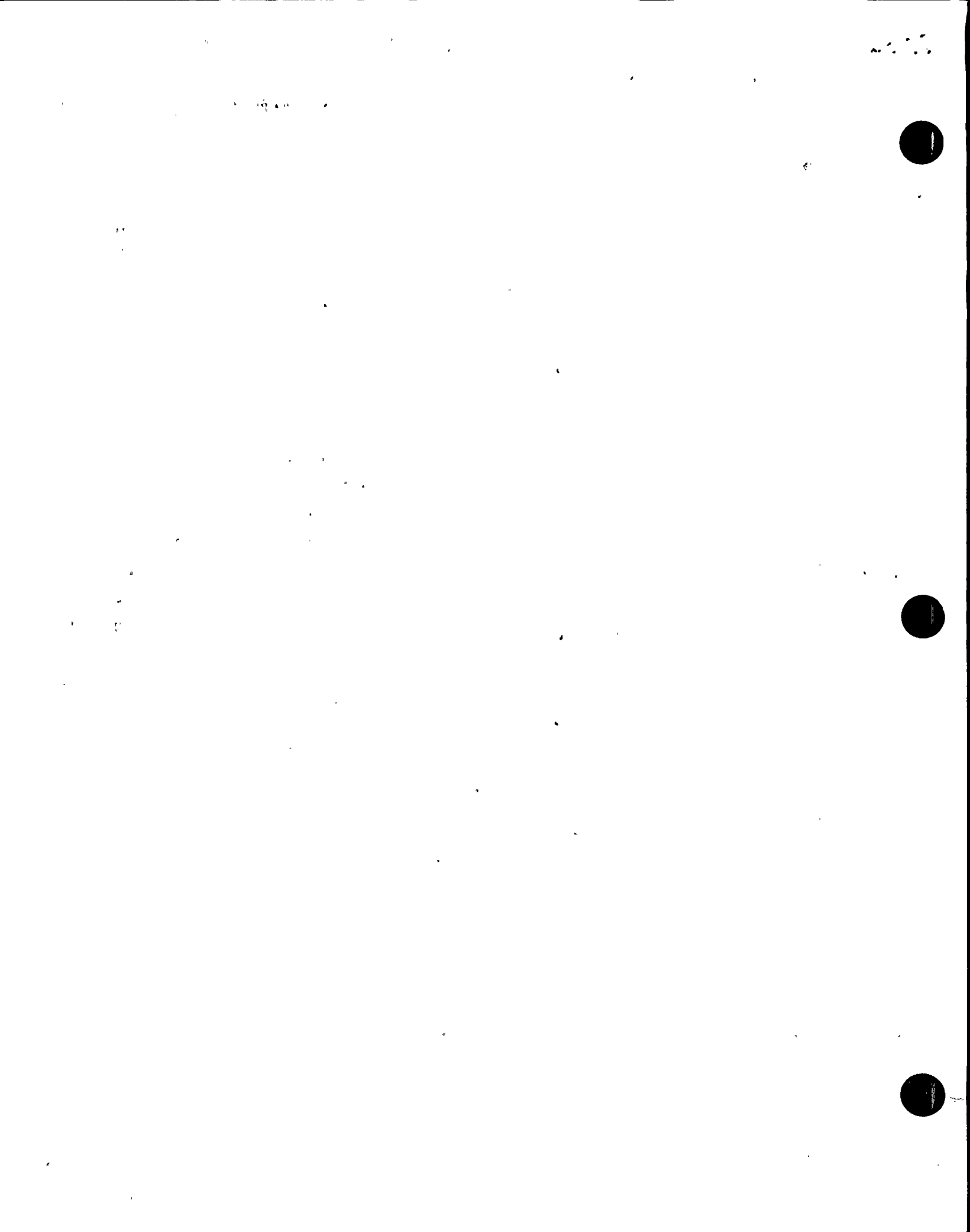
DATE: _____

DATE: _____

PERIODIC AUDITS/SURVEYS TO BE PERFORMED BY THE HOWARD P. FOLEY COMPANY

YES _____ NO _____

HPF/SAR 10/31/83



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Pacific Gas and Electric Company Quality Assurance Procedure

PROCEDURE 10.1
Revision 0
Effective Date 2/9/81
Page 1 of 13



TITLE: NONCONFORMANCES AND CORRECTIVE ACTIONS

APPROVED: _____

[Signature]
Manager, Quality Assurance

1.0 SCOPE

1.1 This procedure establishes measures for control of nonconformances in safety-related items or activities by providing for prompt identification, documentation, evaluation, resolution, and corrective action to prevent recurrence. Discrepancies and departures from approved practices and requirements pertaining to planning, design, procurement, construction, operation, maintenance, repair, or modification shall be handled as described in this procedure. Certain discrepancies and departures are classified as nonconformances, as defined in this procedure. Nonconformances may occur in items, services, activities, or documents.

2.0 RESPONSIBILITY

2.1 Each Company department that is responsible for safety-related items or activities for nuclear power plants shall prepare departmental instructions or procedures for identifying, documenting, evaluating, resolving, and correcting:

2.1.1 Nonconformances as defined in this procedure.

2.1.2 Discrepancies and departures which are not nonconformances but which nevertheless are departures from specific requirements.



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3.0 IMPLEMENTATION

3.1 For the purposes of this procedure a nonconformance¹ is defined as a discrepancy or departure from requirements in purchase specifications, drawings, approved practices, established Quality Assurance policies or procedures, or NRC regulations which require resolution and may require measures to be taken to prevent their recurrence. Nonconformances consist of conditions adverse to quality which if left uncorrected could have resulted in any of the following:

- Degradation or loss of the integrity of the reactor coolant pressure boundary;
- Reduction or loss of the capability to shut down the reactor and maintain it in a safe condition, including the compromise of design objectives during construction and/or modification activities; or
- Lack of effective control over items or activities (including quality program implementation) that could reduce the capability to prevent or mitigate the consequences of accidents that may result in potential off-site exposures comparable to the guidelines set forth in 10CFR100, "Reactor Site Criteria."

A Nonconformance Report (NCR), Form 76-286, shall be used to document nonconformances. It shall record the cause and disposition of the nonconformance. Disposition is understood to include those steps that are necessary to (1) resolve a specific nonconformance, (2) determine its reportability, and (3) provide corrective action to prevent recurrence.

¹ Certain nonconformances require reporting in accordance with 10CFR20, 10CFR21, 10CFR50.36, 10CFR50.55, 10CFR50.59, and Regulatory Guide 1.16.

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8802 - ELEC.
8807 - ELEC.
5422 - CIVIL STRUCT./CONC. ~~(ELEC)~~
8833XR - CIVIL STRUCT.
8831R - CIVIL STRUCT./CONC.
8827 - HVAC
8837 - CIVIL STRUCT.
8771 - ELECTRICAL

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4.1.2 Procurement Document Control: Contractor shall assure that applicable requirements and specifications necessary to assure adequate quality are included or referenced in Contractor's procurement documents. Changes shall be subject to the same degree of control utilized in the preparation of original procurement documents.

4.1.3 Instructions, Procedures, and Drawings: Contractor shall assure that all activities affecting quality are prescribed by documented instructions, procedures, or drawings. Such instructions, procedures, or drawings shall include quantitative or qualitative criteria for determining that activities affecting quality have been accomplished satisfactorily. Quantitative criteria, such as dimensions, tolerances, and test limits, and qualitative criteria, such as comparative workmanship samples, shall be specified, when appropriate, for determining acceptable work performance and quality compliance.

4.1.4 Procurement Control:

*4.1.4.1 Contractor shall assure that all material, equipment, and work furnished by subcontractors and suppliers conform to all applicable requirements of the procurement documents. Procurement control includes the evaluation and selection of qualified subcontractors and suppliers, the transmission of applicable design and quality requirements to subcontractors and suppliers, objective evidence of quality furnished by the subcontractor or supplier, inspection and audit at the subcontractor or supplier source, and examination of items upon delivery.

*4.1.4.2 Contractor shall perform receipt inspection on all material and equipment delivered into his custody to assure conformance to the procurement requirements. PG&E-furnished materials and equipment need only be inspected for completeness and damage during handling if PG&E specifically identifies and exempts the equipment in writing.

*4.1.4.3 Contractor shall assure that documentary evidence that items conform to the procurement requirements is available to Constructor, prior to the installation or use of such items. Documentary evidence shall be sufficient to identify the specific procurement requirements that have been met. Where not precluded by other procurement requirements, written certifications of conformance which identify the procurement requirements that have been met may be used as documentary evidence, providing means are available to verify the validity of such certifications.

**FOR INFORMATION
ONLY**

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3.9 In Process and Final Inspection: Contractor's quality assurance program shall assure that work is accomplished under controlled conditions which include documented work instructions and test procedures, adequate equipment, and any special environments that may be required. Inspection personnel shall be qualified in their specific area of responsibility and knowledge. Documented work instructions shall include criteria for acceptable and unacceptable conditions including workmanship. Physical examination, measurements, and/or tests shall be performed as required during product processing at appropriate points so as to assure quality of the end product. Contractor shall maintain close coordination with Company to facilitate inspection or witnessing of tests by Company.

3.10 Company shall have the right to make both field and shop inspections and tests, and Company's inspectors shall have free access to the work at all times. Neither the making nor the failure to make such inspections and tests by Company shall relieve Contractor of his responsibility for quality control and assurance.

3.11 Product Control: Contractor's quality assurance program shall require that all products subject to quality assurance requirements and which have been approved for use shall be identified and segregated to assure that only these products are used in such work.

3.12 Nonconforming Products: Contractor's quality assurance program shall require that products which fail to meet requirements are identified and segregated and removed from areas designated for approved material.

3.13 Handling, Shipping, Receiving, and Storage: Contractor's quality assurance program shall provide adequate procedures to assure that all necessary measures are taken to prevent damage or deterioration of products during handling, shipping, receiving, storage, installation, and maintenance until acceptance for service by Constructor.

3.14 Special Protection, Packing, and Packaging: Contractor's quality assurance program shall provide adequate procedures to assure that products requiring special protection, packing, or packaging shall be given appropriate consideration and treatment.

3.15 Cleanliness: Contractor's quality assurance program shall include adequate procedures to assure that products are provided and maintained in an appropriate state of cleanliness.

3.16 Audit: Contractor's quality assurance program shall require establishment of a procedure for a system of audits to assure compliance with all aspects of the quality assurance program and to determine its effectiveness. Contractor shall include as a requirement of his purchase orders and subcontracts a statement essentially as follows: "Contractor and/or Company shall have the right to conduct quality assurance audits and inspections at any time during production and testing as may be deemed necessary."



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2.218 Communications equipment.

2.219 Conduits.

2.220 Cable trays.

2.221 Grounding equipment and grounding.

2.222 Others, includes panels, cabinets, motor starters, switches, local motor control stations, etc.

2.3 Equipment and Material Furnished and Installed by Contractor: The following equipment, with the exceptions taken in Paragraph 2.4 following, shall be furnished and installed:

2.31 All required metallic conduits, ducts, and liquid-tight flexible conduits, pull boxes, outlets, junction boxes, holding devices, clamps, supports, hangers, grounding bushings, cover plates, and fittings, cover screws, gaskets, and couplings.

2.32 All required communication conduits, telephone cables, wiring, junction boxes, and terminal cabinets and blocks.

2.33 All required nonmetallic conduits and ducts, fittings, spacers, and grout for pull box and building conduit windows.

2.34 All cable trays, supports, angles, bends, end caps, hangers, and hardware.

2.35 Grounding Material: Copper bus bar, flex connectors, Cad-weld fittings, ground lugs, bonding jumpers, grounding stations, bolts, nuts, washers, clamps, and mounting details. There are a total of 285 electric motors (supplied and installed by others) to be grounded. Of these, 32 require grounding at two points each, and 253 require grounding at one point each (refer to Drawing No. 050037, Sheet 8).

*2.36 Earthquake stops for main, auxiliary, and startup transformers (see Drawing No. 031971, Sheet 1).

*2.37 All required lighting equipment (excluding lighting fixtures and lighting distribution and power panels) including 24 underwater light fixture support pipes as shown on Drawing No. 437949, including all conduits, wire and/or aluminum shielded cable (OKOCLAD), junction and outlet boxes, fittings, clamps, fixture supports, cover, receptacles, brackets, and miscellaneous hardware, including connections.

2.38 Screw type terminal blocks, General Electric Company Type EB-5 or approved equivalent.

2.39 All 480 volt welding receptacles modified to Company's specifications.

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2.310 All wire terminals, lugs, wire markers, etc., not part of the equipment furnished by Company.

2.311 All nuts, bolts, screws, washers, flush shells, Johns-Manville Dux-Seal, and miscellaneous steel shapes for mounting equipment, leveling screws and nuts, assembly screws, bolts, washers and nuts, hold down details.

2.312 All miscellaneous small supplies including tape, insulating varnish and other paints, No-Ox-Id compound, ZRC compound, pulling compound, Kingsley foil and Natvar tubing, nonmetallic wire ties, filler tape, etc.

***2.313

*2.314 Backfill material for conduit trenches.

2.4 Work Not Included: The following work will be performed by others:

2.41 Furnishing and installing all wiring external to the equipment installed hereunder with the exceptions of plant lighting and communications.

2.42 Furnishing and installing of certain lighting equipment, conduits, and wiring, including the lighting distribution panels in the control room, administration offices, miscellaneous offices, stairway and access control areas, etc. (All lighting shown on bid drawings shall be furnished and installed by Contractor.)

2.43 Furnishing and installing of all electrical equipment, conduits, etc., at the intake structure.

2.44 Installing of embedded sections of conduits and grounds except conduit sections to be grouted into openings in walls, floors, or ceilings.

2.45 Furnishing and installing of all thermocouple wells.

2.46 Furnishing and installing of cooling water piping for isolated phase bus heat exchangers.

2.47 Furnishing and installing of conduits for Cardox and turbine deluge equipment except for alarm and power supply conduit.

2.48 All painting except as otherwise specified herein.

2.49 Grouting equipment in place.

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4.123 Material and Work Procurement Control: Contractor procurement control includes implementing a method of evaluation and selection of suppliers and subcontractors assuring that supplier and subcontractor quality assurance programs are consistent with this Supplementary Specification and source inspection at the supplier or subcontractor by Contractor. Contractor shall assure that all material and work furnished by suppliers or subcontractors under this Specification conforms to the applicable drawings, codes, and other requirements necessary to provide the quality required. This procedure shall not include Company-furnished material until delivered to Contractor.

4.124 Receipt Inspection of Material: Contractor shall inspect to the extent necessary all material delivered into his custody to assure conformance to specifications, drawings, purchase orders, and other technical requirements. Receipt inspection may vary as to amount and type depending on the item and supplier. Company-furnished material need only be inspected for completeness and damage during handling if Company specifically identifies and exempts the equipment in writing.

4.125 Identification, Control, and Status of Material: Contractor shall identify, control, and indicate status of all material in his custody. Measures shall be designed to assure that prescribed inspections and tests have been performed to identify nonconforming material and to prevent the use of incorrect or defective material. Suitable means of marking or recording, such as stamps, tags, labels or routing cards shall be employed. Contractor shall submit his proposed method of identification marking for approval.

4.126 Handling, Storage, Packaging, Shipping, and Preservation of Material: Contractor shall assure that all necessary measures are taken to prevent damage, loss or deterioration of material during handling, storage, packaging, shipping, receiving, preserving, installing, erecting, and maintaining until acceptance by Constructor. Material requiring special protection, preserving, or packaging shall be given appropriate consideration and treatment. This will include, when necessary, the establishment and periodic verification of protective environments, such as inert gas, moisture content, and temperature levels.

4.127 Nonconforming Material Control: Contractor shall assure that material which fails to meet requirements of this Specification are identified, segregated, and then removed from areas designated for approval material. Nonconforming items shall be reviewed, accepted, rejected, repaired, or reworked in accordance with procedures requiring designer review. If Company-furnished material is nonconforming, Contractor shall

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2.3244 Multiplex Rack: Mount one completely wired and assembled multiplex rack. Connect multiplex rack to MDF with six 25-pair No. 22 AWG PVC insulated and jacketed cables. Interconnect multiplex rack to power board with two No. 12 AWG conductors. Run conductors and cables on overhead cable racks. Secure multiplex rack to overhead cable rack.

2.3245 Data Rack: Assemble and mount a 19-inch relay rack and install data and control equipment in rack. Interconnect data rack to power board with two No. 12 AWG conductors. Interconnect data rack to MDF with two 25-pair No. 22 AWG PVC insulated and jacketed cables. Run cables and conductors on overhead cable racks. Secure data rack to overhead cable rack.

2.3246 Test Rack: Assemble and mount a 19-inch relay rack and install VHF radio control, metering and test equipment in rack. Interconnect test rack to power board with two No. 12 AWG conductors. Connect VHF radio control equipment to base station control console in the operator's room. Interconnect patch panel on rack to MDF with two 50-pair No. 22 AWG PVC insulated and jacketed cables. Run cables and conductors on overhead cable racks. Secure test rack to overhead cable rack.

2.325 Two 50-pair, 19 gauge cables for installation between communication room and cable terminating vault.

2.4 Equipment and Material Furnished and Installed by Contractor:
Equipment and material which shall be furnished and installed by the Contractor are:

2.41 All material needed to terminate, splice, and connect to equipment of all electrical conductors installed under this Specification. Items included are terminals, lugs, splices, insulating material, fire stop materials, Glastic Type UTR plates, wire markers, terminal blocks (except for communications), and other material required to complete the wiring.

2.42 All cable tray covers and fittings as shown on the drawings and raceway schedules, except those at the 230 kv and 500 kv switchyards.

(SEE SCN-36 FOR REVISION OF PARA. 2.43)

2.43 All nuts, bolts, screws, washers, flush shells, Johns-Manville Dux-Seal, conduit plugs, OZ Type M, and miscellaneous steel shapes and details.

2.44 All miscellaneous supplies including tape, insulating varnish, paints, No-Ox-Id compound, pulling compound, Kingsley foil, PVC tubing, nonmetallic wire ties, filler, tape, etc.

(SCN-36) Revised 9/10/76

W. E. D.
Avila Beach, Calif.

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

2.45 Process instrumentation material. Refer to Paragraph 2.5 of Section 4 of this Specification.

2.46 At the intake structure:

2.461 All cable trays, fittings, mountings, and supporting material, covers, and hardware.

2.462 All nonembedded conduit, metallic and nonmetallic, including all fittings, liquid-tight flexible conduit, couplings, grounding bushings, junction and terminal boxes, pull boxes, outlets, cover plates, screws, gaskets, and all mounting devices, clamps, supports, hangers, and grout.

2.463 All material needed to terminate and connect to equipment of all electrical conductors installed under this Specification. Items included are terminals, splices, sleeving, insulating material, wire markers, and all other material or supplies not included with equipment but needed to complete the wiring.

2.464 All electric power receptacles, 120 volts, 208 volts, and 480 volts.

2.465 All lighting equipment, excluding lighting fixtures, circuit breaker panelboards, and transformers but including all conduits, wire, junction and outlet boxes, fittings, clamps, fixture supports, covers, brackets, and miscellaneous hardware.

2.466 Backfill material for conduit and ground trenches or other excavations.

2.467 All grounding material not embedded in concrete, excluding ground cable and ground rods. Material includes copper bus bar, flexible connectors, Cadweld fittings, ground lugs, bonding jumpers, ground stations, bolts, nuts, washers, clamps, and mounting details. There are 43 electric motors to be grounded, of which seven require grounding at two points each and 36 require grounding at one point each. Refer to Drawing No. 050037.

**2.468 Telephone wire from the Unit 1 communications room main frame in the auxiliary building to the telephone handsets at the intake structure.

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1.33 Electrical material used shall bear the label of the Underwriters' Laboratories and shall be listed by Underwriters' Laboratories in their lists of electrical material unless the material is of a type of which U.L. does not list or provide label service.

1.34 Similar type fittings throughout the work shall be of the same manufacturer unless otherwise authorized by Constructor in writing.

1.4 Regulations: Material and workmanship shall conform to the applicable provisions of the latest revisions of the National Electrical Code, State Electrical Safety Orders, and local regulations. This Specification and the accompanying drawings shall take precedence in all except where the above provisions are more stringent.

1.5 Seismic Requirements:

1.51 The installation of equipment described in Paragraph 1.55 following, as well as the equipment itself, shall be designed to Design Class I Standards. Design Class I equipment is important to the nuclear safety of the power plant; failure of Design Class I equipment may result in a release of excessive amounts of radio-activity. In accordance with Design Class I Standards, supports shall be subject to a seismic design horizontal acceleration of 1.0g at Elevation 140 and 1.5g at Elevation 163 considered to act at the equipment center of gravity and acting simultaneously with a design vertical acceleration of 0.13g. (The above seismic acceleration is cited with the assumption that all critical component parts have natural frequency of free vibration greater than 20 cycles per second. The seismic acceleration will be greater if the natural frequency is less than 20 cycles per second and shall require the consideration by the Engineer.)

1.52 The seismic design loads specified under Paragraph 1.51 of this Section shall be considered in combination with primary steady state design loads. The stresses developed from this combination of loads shall not exceed those allowed by applicable codes or standard engineering practices for normal loads.

1.53 (e-23) Contractor shall provide evidence, to be approved by Company, that the installation and design of the equipment purchased conforms to the no loss-of-function criterion of Design Class 1. This criterion requires that the equipment be capable of its required function with seismic accelerations twice those used in design. No loss-of-function implies that rotating equipment will not "freeze", supports will not collapse under load, and components required to respond actively will respond actively. In general, the no loss-of-function criterion can be satisfied for structural members if the stress resulting from the combination of normal and seismic loads does not exceed yield strength.

(e) Engineering Change Order revision.



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1.54 (e-23) Contractor-furnished evidence that the equipment and its installation meet the design criteria shall be the following:

1.541 (e-23) Contractor-furnished evidence for equipment design shall consist of seismic analysis calculations or certified reports of seismic shaking table test results. When, in the opinion of the Engineer, an equipment item is, by construction, so simple or rugged as to be obviously capable of withstanding the specified double design accelerations without loss-of-function, Contractor may be exempted from performing seismic analysis or testing. In such cases, Engineer will submit to Company files a statement of visual inspection and approval.

1.542 (e-23) Contractor-furnished evidence for installation of equipment shall consist of PG&E Approved Contractor's shop drawings or Company drawings (in lieu of either of these at Company's option, the Company may visually inspect and provide documented approval to Company files of the satisfactory installation of equipment which is, by construction, so simple or rugged as to be obviously capable of withstanding the specified double design accelerations without loss-of-function).

1.55 The following components of this Section shall meet the Design Class I requirements:

1.551 (e-8) Deleted.

1.552 (e-23) Safety disconnect switches, and circuit breaker panels (Approval statement by Engineer).

1.553 (e-8) Deleted.

1.554 (e-8) Deleted.

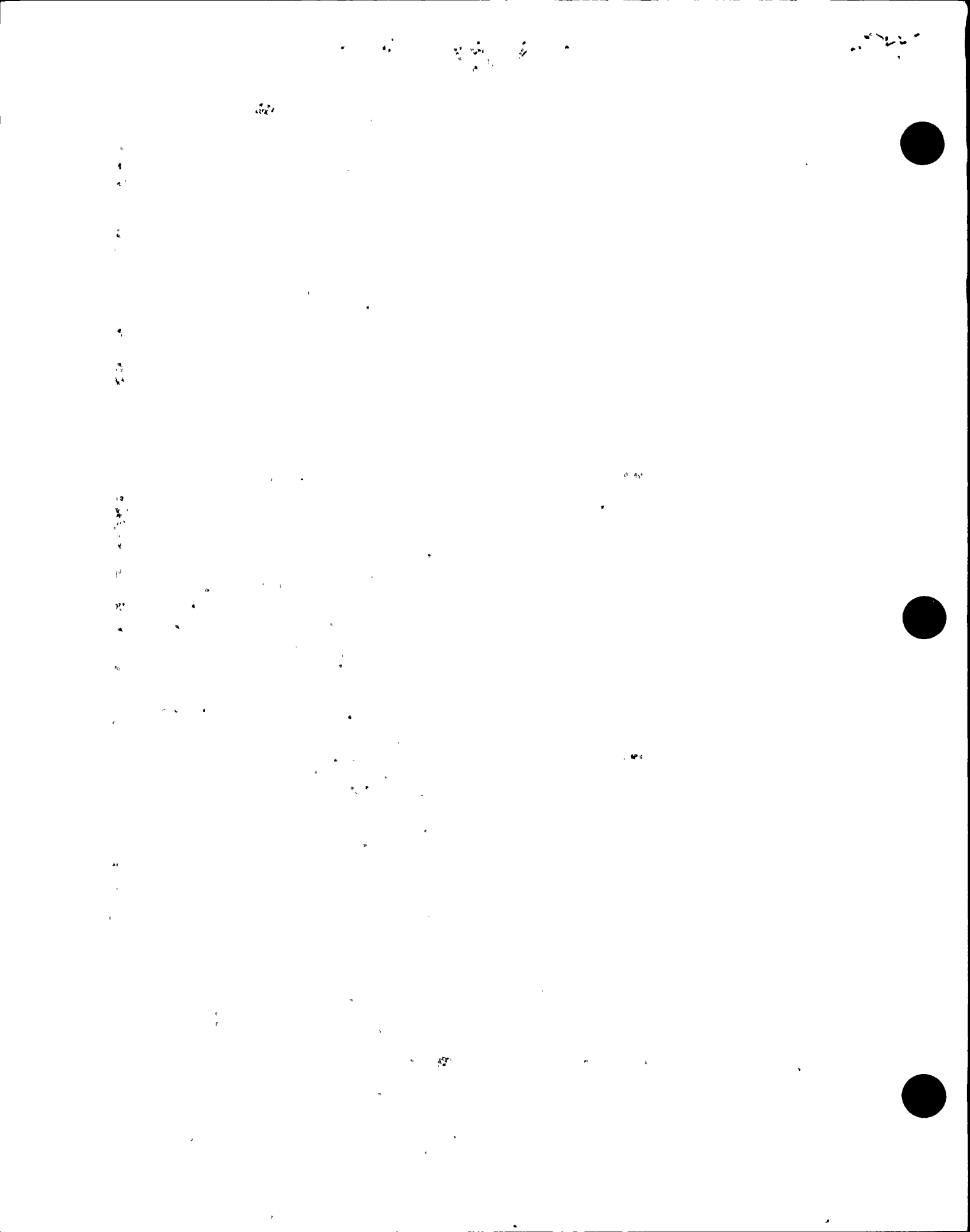
1.555 (e-8) Deleted.

1.556 (e-8) Deleted.

1.6 Quality Assurance:

1.61 (e-36) Quality Assurance provisions are required for the Design Class I equipment and its installation. Contractor purchased Design Class I equipment shall be manufactured in accordance with Manufacturer's Quality Assurance Program, Quality Class B in Section 15 of this Specification (except as indicated in paragraph 1.6113). (Military Specification, MIL-Q-9858A, will be an acceptable alternate.) Installation work performed and any additional material supplied by Contractor shall be in accordance with Contractor's Quality Assurance in Section 15 (previously in Specification No. 8831R).

(c) Engineering Change Order revision.



N45.2.13

Methods of acceptance

1) source verification

2) receiving inspection

3) Supplier certificate of conformance

post installation test

Alleg. 60

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OF ITEMS AND SERVICES

b. Fabrication procedures and processes have been approved and complied with and the applicable qualifications, process records, and certifications are available.

c. Components and assemblies have been inspected, examined, and tested as required and applicable inspection, test and certification records are available.

d. Nonconformances have been dispositioned as required.

e. Components and assemblies are cleaned, preserved, packed and identified in accordance with specified requirements.

Upon Purchaser acceptance by source verification, documented evidence of acceptance shall be furnished to the receiving destination of the item, to the Purchaser, and to the Supplier.

10.3.2 Acceptance by Receiving Inspection. Acceptance solely by receiving inspection is satisfactory when the items or services are—

a. relatively simple and standard in design, manufacture, and test; and

b. adaptable to standard or automated inspections and/or tests of the end product to verify quality characteristics after delivery; and

c. such that receiving inspection does not require operations which could adversely affect the integrity, function, or cleanness of the item.

Receiving inspection should be coordinated with review of Supplier documentation when procurement documents require such documentation to be furnished prior to receiving inspection.

10.3.3 Acceptance by Supplier Certificate of Conformance. In certain procurement actions which do not involve direct inspection by the Purchaser, the Purchaser may accept an item or service from a Supplier based only on a Supplier's certificate of conformance that the specified requirements have been met. However, specific supplemental documentation, such as material certificates or reports of tests performed, may be required by procurement documents. Acceptance by this method is satisfactory when the item or service is of simple design and involves standard materials, processes and tests. Such items may be fabricated subject to selected qualification, sample, or batch testing to establish or maintain a minimum quality confidence level.

10.3.4 Acceptance by Post Installation Test at the Nuclear Power Plant Site. Acceptance by this method is satisfactory when performed following the accomplishment of at least one of the preceding methods and when—

a. it is difficult to verify the quality characteristics of the item without it being installed and in use; or
b. the item requires an integrated system checkout or test with other items to verify its quality characteristics; or

c. the item cannot demonstrate its ability to perform its intended function except when in use.

Post installation test requirements and acceptance documentation should be mutually established by the Purchaser and Supplier.

10.3.5 Acceptance of Services Only. The guidelines outlined in Section 10.3 above primarily deal with hardware items and related services. In certain cases involving procurement of services only, such as third party inspection; engineering and consulting services; and installation, repair, overhaul or maintenance work; the Purchaser may accept the service by any or all of the following methods:

a. Technical verification of data produced.
b. Surveillance and/or audit of the activity.

c. Review of objective evidence for conformance to the procurement document requirements such as certifications, stress reports, etc.

11. QUALITY ASSURANCE RECORDS

Measures shall be established and implemented for the control of:

a. Supplier-generated documents and records that are required to be submitted to the Purchaser or retained by the Supplier as specified by the procurement documents.

b. Purchaser-generated quality related documents and records.

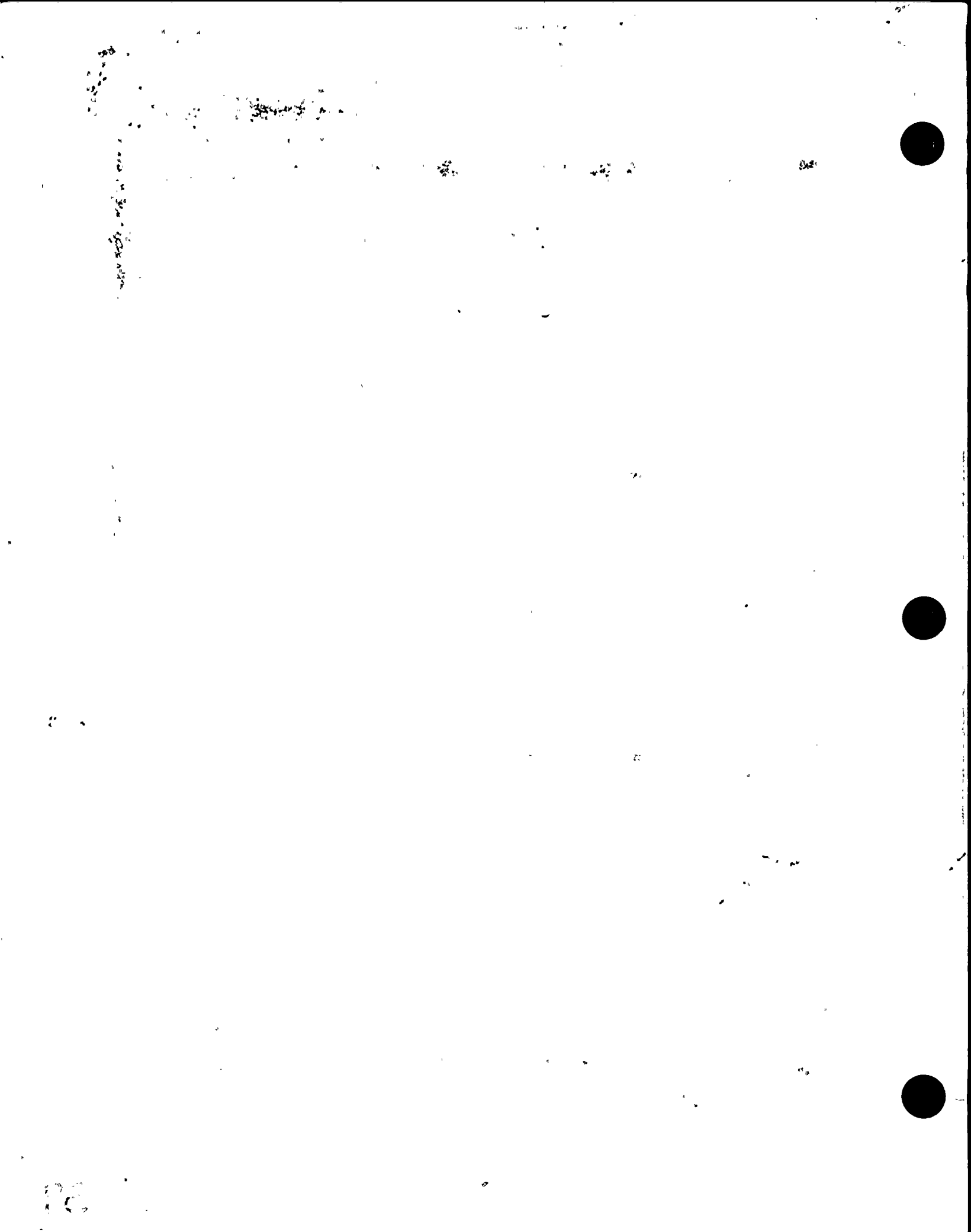
The collection, storage, and maintenance of quality assurance records shall be in accordance with ANSI N45.2.9.

12. AUDIT OF PROCUREMENT PROGRAM

Periodic or random audits shall be performed to verify compliance with procurement activities described in this standard. The scope of planned auditing activity may cover individual operations, events, processes, or the complete quality assurance program. When deemed necessary by the Purchaser, audits of subtier Suppliers shall be carried out to assure that their quality assurance programs on procurement adequately translate the necessary requisites of the governing procurement documents to the items or services involved. The audits shall be conducted in accordance with established methods.

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verified pump operability for a duration path.

The inspector also observed portions of the control rod assembly drag testing. This testing was conducted per maintenance procedure M-7.13. It consisted of using the control rod latching tool with a scale to lift and lower latched control rod assemblies (control rod and drive shaft). The force required to accomplish this was monitored to assure the rod assemblies moved within limits. Two of the rod assemblies did not satisfy the acceptance criteria. Examination of these assemblies showed that one of the rodlets in each assembly was bowed. This interference has been identified as the cause of the failure to pass the drag test. The assemblies that failed the drag test were, therefore, replaced and the replacement assemblies did pass the drag test.

No items of noncompliance or deviations were identified.

6. Allegation Followup

a. Unacceptable Work and Corrective Action

An allegation was made through a concerned citizen that an individual that worked at the plant had knowledge of unacceptable work and corrective actions regarding Foley welding activities (Allegation No. RV-83-A00052).

Three separate interviews were conducted with the individual referred to by the concerned citizen (hereinafter the individual will be referred to as the interviewee). The interviewee was informed that a citizen had heard that: (1) resolutions of inspection reports, identifying unacceptable work, were inadequate in the interviewee's opinion, and (2) general Foley welding work practices were not in compliance with codes, standards or good work principles. The interviewee was asked if he had any knowledge of such problems. The interviewee was also informed of his responsibility to the regulations to identify any perceived safety concerns and that anonymity would be maintained.

The interviewee expressed surprise that such an allegation had been made. The interviewee stated that he knew of no items in noncompliance with codes and standards which had not been identified and resolved. However, the interviewee felt that while work practices in some areas could be performed in a more efficient manner, they were not in noncompliance with NRC regulations or with licensee or contractor procedures.

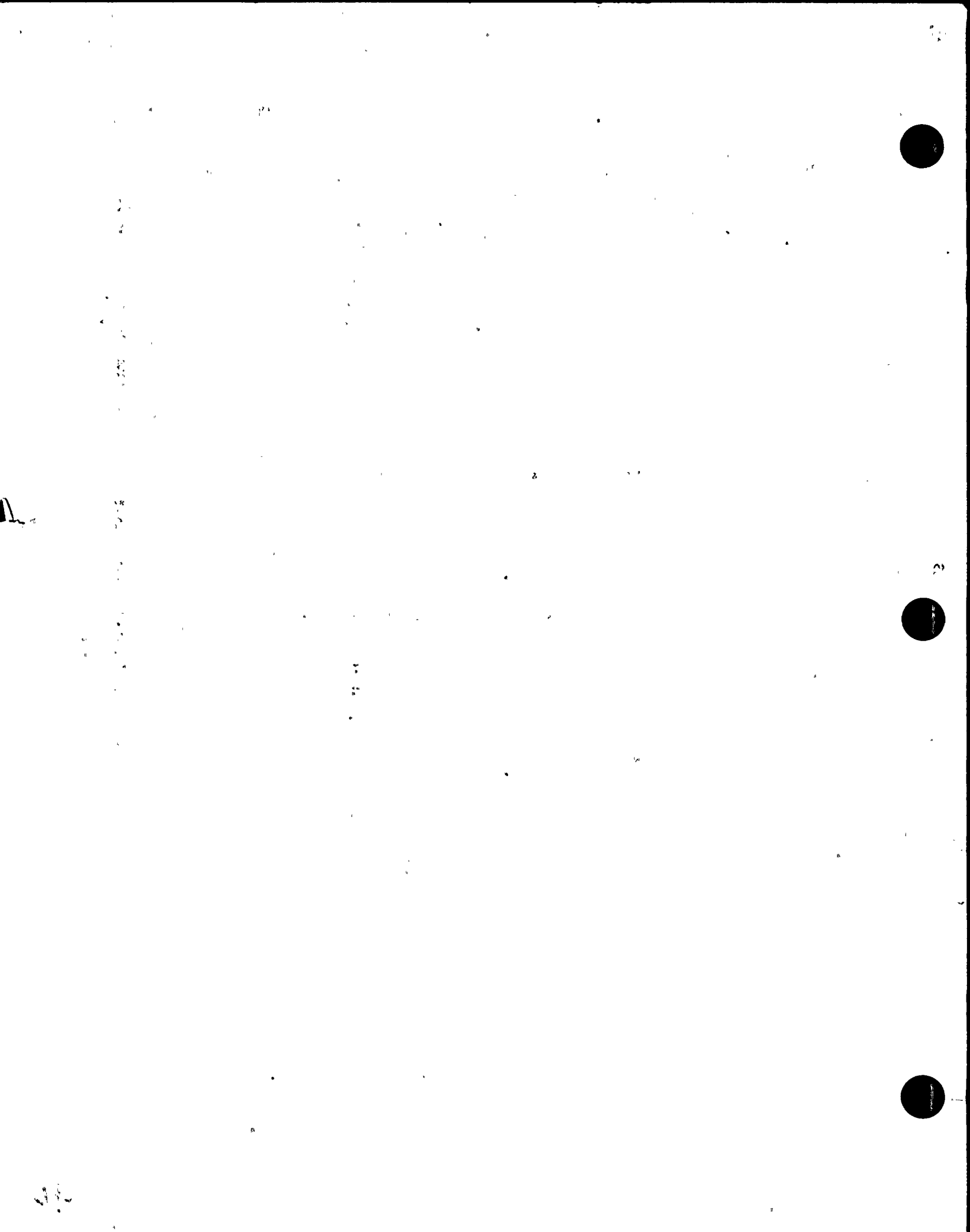
No items of noncompliance or deviations were identified.

*From
Inspector
Report
50-275/83-36*

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Alleg. 60





Emergency Response Guidelines (WOGERGs).. The WOGERs required that for an inadvertent SI during reactor cooldown (low Temperature and pressure conditions), once a stable pressure and other conditions for adequate core cooling, are assumed the operator can terminate the SI and restore normal charging and letdown. This will prevent potential steam generator pressures differentials across tubes beyond the 1600 psi design limit and PORV lifts from these conditions that could have occurred with the previous guideline to establish RCS pressure at 2000 psi. This closed open item 83-19-04.

No items of noncompliance or deviations were identified.

11. Allegation Followup

For Dec. Monthly
24, 26, 46, 46

Allegation number RV-83-A-0052 reported that an individual at the site had knowledge of unacceptable work activities and associated correction action. Specifically problem reports that were prepared by this individual were not adequately addressed. The individual had been interviewed and had no such concerns (see inspection report number 50-275/83-36).

As followup, an inspector contacted the individual and requested specific identification of the problem reports that were prepared by the individual. The individual had prepared eleven such reports and the inspector found that ten of the reports had been completed. ^{Corrective action had not been completed on one problem report.} The inspector reviewed these documents and found that these problem reports were acceptably addressed ^{and resolved}. That is, the corrective actions included acceptable engineering review, and physical or procedural modifications, where required. This closes this allegation.
No items of noncompliance or deviations were identified.

Alleg. 60



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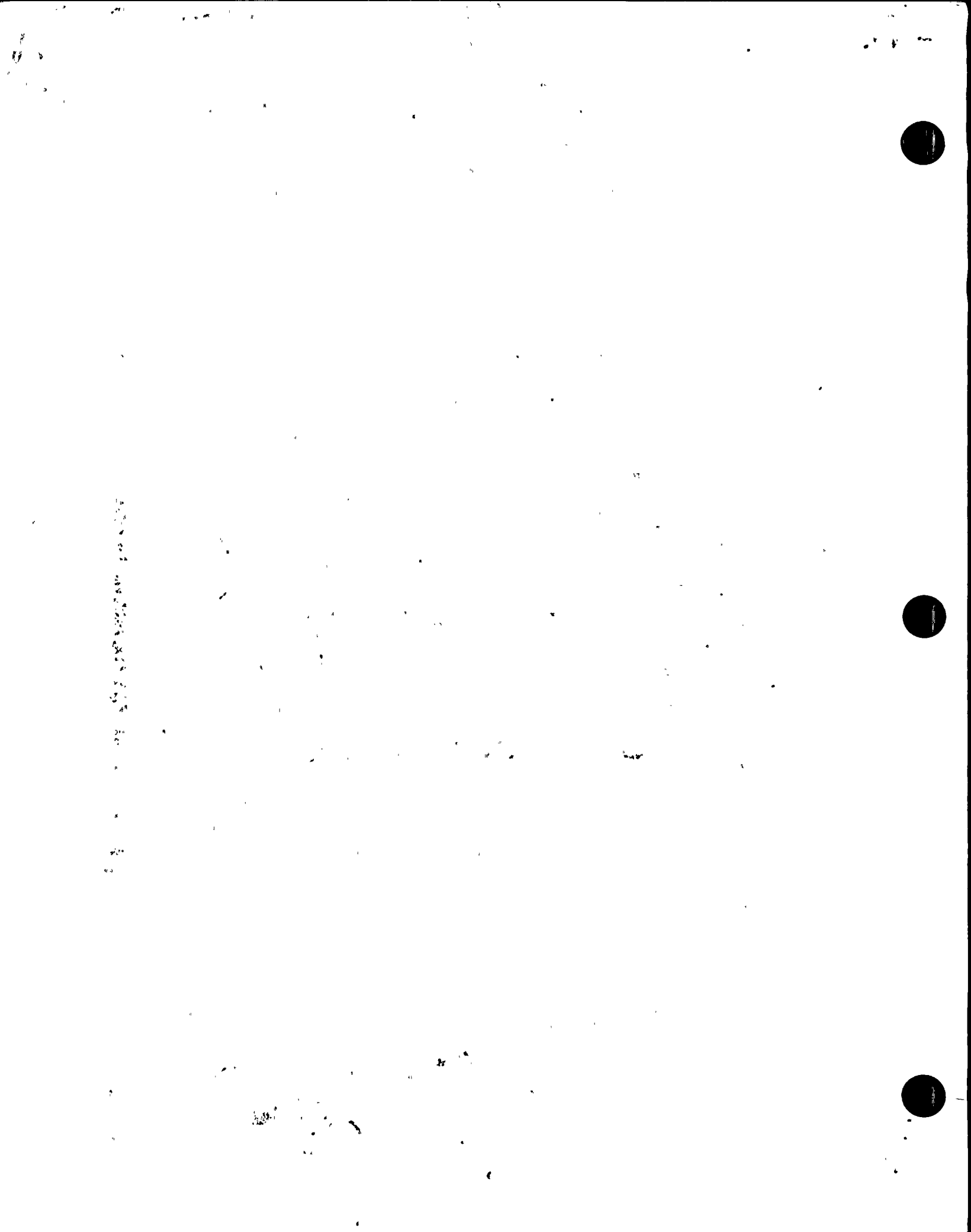
Allegation 60

*Doug Aaron -
QA Dept
(under supervision)*

SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES QUALIFIED FOR	COMMENTS
A&G ENGINEERING CO.	Jul 18 83	06/11/85	FERROUS AND NON-FERROUS BOLTING	
A.M. CASTLE & CO.	Oct 14 76	12/11/80	GROUNDING BUSS BAR & SILVER PLATING	
A.M. CASTLE COMPANY	Mar 28 75	10/14/76	BUS BAR AND SILVER PLATING	
ACTION CRAFT PRODUCTS	Oct 14 76	12/11/80	WIRE MARKERS	
ACTION CRAFT PRODUCTS	Feb 06 75	10/14/76	WIRE MARKERS	
ADHESIVE ENGINEERING	Feb 20 80	12/11/80	CONCRETE 1001-LPL CONCRETE 1411	
ADHESIVE ENGINEERING	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
ADHESIVE ENGINEERING COMPANY	Oct 03 77	12/11/80	CONCRETE 1001	
AEROMAR MFG. INC.	May 30 75	10/14/76	POLYMAR 105 PLASTIC TUBING	
AIR VOL	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
AIR VOL	Jan 07 80	12/11/80	TYPE 11 PORTLAND CEMENT	
AIRCO WELDING PRODUCTS	Oct 14 76	12/11/80	WELDING PRODUCTS WELD ROD	
AIRCO WELDING PRODUCTS	Feb 06 75	10/14/76	WELDING PRODUCTS	
ALLIED NUT & BOLT	Aug 15 83	UN/PG&E	STUDS, NUTS AND BOLTS	
ALLOY RODS/CHEMTRON CORP.	Jul 20 83	09/08/84	FERROUS AND NON-FERROUS WELDING AND BRAZ MATERIAL	
ALPHA WIRE CORP.	Oct 14 76	12/11/80	105-TUBING	
ALPHA WIRE CORPORATION	May 30 75	10/14/76	ALPHA 105 SHRINK TUBING	
AMERICAN INSULATED WIRE CORP.	Feb 06 75	10/14/76	CABLE	
AMFAC	Dec 11 78	12/11/80	ALL	
AMFAC	Oct 14 76	12/11/80	ELECTRICAL CLASS 1 ITEMS	
AMFAC ELECTRIC SUPPLY CO.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
ANACONDA AMERICAN BRASS CO.	May 14 76	10/14/76	SEALTITE FLEXIBLE CONDUIT TYPE EF & UA	NOT IN CONTAINMENT
ANACONDA METAL HOSE	Oct 14 76	12/11/80	EF, UA, UAP, EFL & HC FLEXIBLE CONDUIT	
ANACONDA METAL HOSE	Feb 06 75	10/14/76	FLEX CONDUIT	
ANCHOR PACKING CO.	Jul 18 83	UN/PG&E	ANCHORTITE GASKET MATERIAL	
ANCHOR PACKING CO.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
ANCHOR PACKING CO.	Sep 29 82	12/17/82	ANCHORITE #425 GASKET MATERIAL	
ANDERSON INDUSTRIAL SUPPLY	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
ANDERSON INDUSTRIAL SUPPLY	Aug 23 79	12/11/80	ALL	
ANDERSON INDUSTRIAL SUPPLY	Jan 20 81	12/17/82	OMARK STUD (WELDING) ANCHORS	
APACHE SALES COMPANY	May 30 75	10/14/76	HARDWARE	
APACHE SALES CORPORATION	Oct 14 76	12/11/80	NUTS, BOLTS, SCREWS AND MISC. HARDWARE	
APPLETON ELECTRIC CO.	Feb 06 75	10/14/76	FITTINGS	
AUTOCLAVE ENGINEERS SALES CORP	May 13 81	12/17/82	TUBE FITTINGS, FERRULES, INSTRUMENT VALVES	
B.F. GOODRICH	Nov 08 78	12/11/80	RIVNUT FASTENERS	
BAILEY METER CO.	Jun 15 81	12/17/82	CONDENSATE RESERVOIRS	
BAKER WELDING SUPPLY	Oct 14 76	12/11/80	WELD ROD	
BAY RUBBER COMPANY	Oct 26 79	12/11/80	ALL	
BECHTEL GROUP INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ONLY	
BECHTEL GROUP INC.	Dec 14 82	12/17/82	ALL PRODUCTS	
BETHLEHAM STEEL CORP.	Dec 30 77	12/11/80	REINFORCING BARS	
BETHLEHAM STEEL	Aug 12 83	UN/PG&E	CARBON STEEL PLATE, LOW ALLOY STEEL PRODUCTS	SPARROW PT. MD. STEELTOWN, PA. BETHLEHEM PA.
BETHLEHAM STEEL	Aug 12 83	UN/PG&E	REINFORCING STEEL	
BETHLEHAM STEEL	Aug 12 83	UN/PG&E	REINFORCING STEEL	

UN/PG&E = UPON NOTIFICATION BY PG&E

ONLY



APPROVED SUPPLIERS
HISTORIC LIST

Sep 02 83
PAGE 2

SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES QUALIFIED FOR:	COMMENTS
BETHLEHEM STEEL CORP.	Dec 30 77	12/11/80	STRUCTURAL BOLTS	
BISHOP ELECTRIC COMPANY	Oct 14 76	12/11/80	BISHOP #45 PULLING COMPOUND	
BISHOP ELECTRIC COMPANY	Mar 28 75	10/14/76	TERMINATION KITS	
BONNEY FORGE AND TOOL WORKS	May 31 78	12/11/80	STAINLESS STEEL AND CARBON STEEL PIPE FITTINGS	
BRAND REX DIVISION	Oct 14 76	12/11/80	TURBOLEX 105N TUBING	
BRAND REX DIVISION	May 30 75	10/14/76	TURBOLEX 105N PLASTIC TUBING	
BURNDY CORP.	Oct 14 76	12/11/80	GROUNDING CLAMPS & LUGS	
BURNDY CORP.	Feb 06 75	10/14/76	SPLIT BOLT, CONDUCTORS, GROUNDING CLIPS ETC.	
CAJON COMPANY	Jul 18 83	08/31/84	FERROUS & NON-FERROUS SEAMLESS TUBULAR PRODUCTS	MACEDONIA, OH.
CAJON COMPANY	Jul 18 83	08/31/84	MACHINING AND RECEIVING INSPECTION	OLON, OH.
CALIFORNIA PORTLAND CEMENT	Dec 30 77	12/11/80	TYPE II PORTLAND CEMENT	
CALIFORNIA PORTLAND CEMENT	Oct 06 77	12/11/80	TYPE II PORTLAND CEMENT	
CALIFORNIA TOOL & MACHINE	Dec 13 78	12/11/80	ALL	
CARDINAL BOLT CO.	May 15 80	12/11/80	NUTS, BOLTS, STUDS AND WASHERS	
CEILCOTE	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
CEILCOTE	Dec 13 82	06/22/83	CEILCOTE 658N GROUT	
CHAPARAL STEEL	Jul 07 83	08/23/85	STRUCTURAL STEEL PLATES AND SHAPES	
CIRCLE A-W PRODUCTS	Oct 14 76	12/11/80	JUNCTION BOXES	
CIRCLE AW PRODUCTS CO. INC.	Feb 06 75	10/13/76	JUNCTION BOXES	
CIRCLE SEAL	Jul 18 83	09/08/83	CHECK VALVES	
CIRCLE SEAL	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
CIRCLE SEAL	Sep 14 82	12/17/82	ALL CATALOG ITEMS	
COAST WELDING	Feb 06 75	10/13/76	WELDING PRODUCTS	
COAST WELDING SUPPLY	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
COAST WELDING SUPPLY	Dec 27 78	12/11/80	CARBON AND STAINLESS STEEL PIPE AND TUBE FITTINGS	
COAST WELDING SUPPLY	Dec 27 78	12/11/80	COPPER TUBING	
COAST WELDING SUPPLY	Dec 27 78	12/11/80	CARBON AND STAINLESS STEEL PIPE	
COAST WELDING SUPPLY	Dec 11 78	12/11/80	ALL	
COAST WELDING SUPPLY COMPANY	Oct 14 76	12/11/80	WELD ROD, WELDING PRODUCTS	
CONSOLIDATED ALUM CORP.	Oct 14 76	12/11/80	ALUMINUM CONDUIT	
CONSOLIDATED ALUMINUM CORP.	Feb 06 75	10/13/76	ALUMINUM CONDUIT	
CONSOLIDATED ELECTRICAL DIST.	Mar 17 83	06/22/83	COMMERCIAL GRADE ONLY	
CONSOLIDATED ELECTRICAL DIST.	Dec 13 78	12/11/80	ALL	
CONSOLIDATED ELECTRICAL DIST.	Oct 12 79	12/11/80	ALL	
CONTRACTOR BUILDING SUPPLY	Oct 14 76	12/11/80	WELD COUPONS, ROD, PRODUCTS, STEEL ASTMA-36, ETC.	
CONTRACTOR'S BUILDING SUPPLY	Dec 13 78	12/11/80	ALL	
CONTRACTORS BUILDING SUPPLY	Feb 06 75	12/11/80	WELDING PRODUCTS	S.L.O., BUILD. SUPPLY
CONTROL COMPONENTS INT.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
CONTROL COMPONENTS INT.	Jun 10 82	12/17/82	VALVES	
CONTROL SPECIALISTS	Mar 17 83	06/22/83	COMMERCIAL GRADE ONLY	
CONTROL SPECIALISTS	Dec 13 78	12/11/80	ALL	
COPE-S-VULCAN	Jul 10 81	12/17/82	VALVE REPLACEMENT PARTS	
CORDOVA BOLTS, INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
CORDOVA BOLTS, INC.	Nov 14 79	12/11/80	HIGH STRENGTH NUTS & BOLTS & OTHER FASTENERS	

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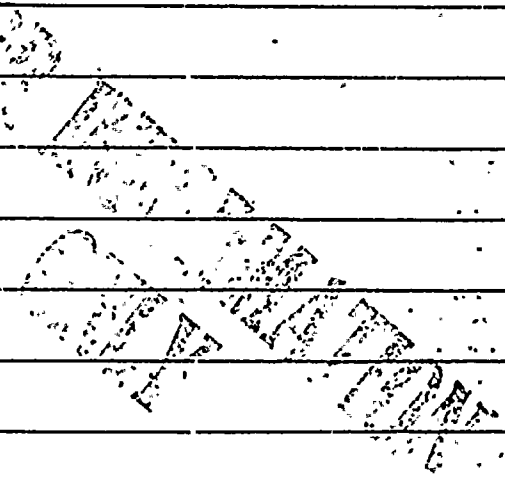
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SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES, QUALIFIED FOR	COMMENTS
CRAWFORD FITTING CO.	Jul 18 83	08/31/84	FERROUS AND NON-FERROUS SEAMLESS TUBULAR PRODUCTS	
CROUSE-HINDS	Feb 06 75	10/13/76	CONDULETS, CAST BOXES, POWER OUTLETS, ETC.	
CROUSE-HINDS MFG. CO.	Oct 14 76	12/11/80	CONDULETS, REDUCING BUSHINGS, UNY, UNF, CGB, PLUGS	
CYPRUS CABLE & CONDUIT COMPANY	Apr 03 75	10/13/76	E.M.T. - NOT HOT-DIPPED AS TO SPEC.	
CYPRUS WIRE AND CABLE CO.	Feb 06 75	10/13/76	CABLE	
DARDANELLA ELECTRIC CORP.	Jan 18 79	12/11/80	ALL	(DECO)
DECO	Oct 14 76	12/11/80	ELECTRICAL CLASS I ITEMS	
DEVCON CORP.	Oct 14 76	12/11/80	ZIP-GRIP 10 GLUE	
DEVCON CORP.	May 06 76	10/13/76	ZIP-GRIP 10 GLUE	
DOW CORNING CORPORATION	May 30 75	10/13/76	SILICONE SEALANT	
DOW-CORNING CORP.	Oct 14 76	12/11/80	SEALANT 96-081-RTV	
DRAGON VALVES	Jul 18 83	05/06/84	STAINLESS STEEL GLOBE VALVES	
DRAGON VALVES, INC.	Feb 12 79	12/11/80	ALL	
DRAGON VALVES, INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
DUCOMMON METALS CO.	Aug 08 83	01/10/84	FERR. STRUCT. SHAPES, SEAM. & WELD. WO/FILL. METAL TUB	
DUCOMMUN. METALS CO.	Mar 07 80	12/11/80	VARIOUS STEEL SHAPES	
DUHIG & CO.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
DUHIG & CO.	Sep 15 82	12/17/82	STAINLESS STEEL PIPE & TUBE FITTINGS	SAN LEANDRO, CA.
DUHIG & CO.	Nov 07 80	12/11/80	STAINLESS STEEL PIPE & TUBE FITTINGS	SAN FRANCISCO, CA.
DURKEE TESTING LAB.	Aug 12 83	UN/PG&E	TESTING OF MATERIALS	
EARL M. JORGENSON CO.	Jul 07 83	04/15/86	STRUCTURAL STEEL PLATES AND SHAPES	
EFCOR ITE ELEC. COMPONENTS	Feb 06 75	10/13/76	CONDUIT STRAPS & HANGERS, EMT. FITT., BUSHINGS & ETC	
EFCOR-ITE ELEC. CORP.	Oct 14 76	12/11/80	EMT FITTINGS, CONDUIT STRAPS, BUSHINGS, LOCKNUTS;	
ELECTRIC SUPPLY CO. - VALLEJO	Oct 14 76	12/11/80	SUPERIOR STRUT AND HARDWARE	
ELECTRICAL SPECIALTY CO.	Oct 14 76	12/11/80	VARAFLEX PRODUCTS, TUBING	
ELECTRICAL SPECIALTY COMPANY	Mar 28 75	10/13/76	BLACK TUBING	
ENDURANCE METAL PRODUCTS CO.	Jun 18 80	12/17/82	STRUCTURAL STEEL SHAPES, FABRICATION	
FLOY TAG & MANUFACTURING INC.	Mar 28 75	10/13/76	WIRE MARKERS	
FLOY TAG MFG. CO.	Oct 14 76	12/11/80	WIRE MARKERS	
FLOY TAG MFG. CO.	Feb 06 75	10/13/76	WIRE MARKERS	
FORDERER CORNICE	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
FORDERER CORNICE	Jan 12 82	12/17/82	HOLLOW METAL DOORS, FRAMES & DOOR PANELS	
FORDERER CORNICE	Sep 12 77	12/11/80	HOLLOW METAL DOORS, FRAMES AND DOOR PANELS	
G.E. CO., WIRE & CABLE PROD.	Feb 06 75	10/13/76	TERMINAL BOARDS, MISC. ELECTRICAL ITEMS	
GAYLORD MANUFACTURING CO.	Feb 06 75	10/13/76	JUNCTION BOXES GUTTERS	
GAYLORD MFG. CO.	Oct 14 76	12/11/80	JUNCTION BOXES AND GUTTERS	
GAYLORD MFG. COMPANY	Apr 21 76	10/13/76	ALUMINUM JUNCTION BOXES	
GENERAL ELECTRIC CO.	Oct 14 76	12/11/80	TERMINAL BLOCKS	
GIBBONS ELECTRIC CO.	Feb 06 75	10/13/76	LUGS	
GRAYBAR ELECTRIC	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
GRAYBAR ELECTRIC	Jan 09 79	12/11/80	ALL	
GRAYBAR ELECTRIC COMPANY	Oct 14 76	12/11/80	ELECTRICAL CLASS I ITEMS	
HENRY PRATT COMPANY	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
HENRY PRATT COMPANY	Feb 18 83	06/22/83	POST INDICATOR VALVE ASSEMBLY BUTTERFLY VALVES	

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SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES QUALIFIED FOR:	COMMENTS
HILTI, INC.	Feb 06 75	10/13/76	KWIK-BOLTS	
HILTI INCORPORATED	Mar 28 75	10/13/76	KWIK BOLTS.	
HILTI, INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
HILTI, INC.	Dec 13 78	12/11/80	ALL	
HILTI, INC.	Oct 14 76	12/11/80	KWIK BOLTS	
HOPPER INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
HOPPER INC.	Jan 09 79	12/11/80	ALL	
HOPPER INC.	Feb 06 75	10/13/76	WELDING PRODUCTS	
HOPPER MCH. WORK INC.	Oct 14 76	12/11/80	WELDING PRODUCTS, ASTM-A36 STEEL	
HUSKEY PROD. INC.-BURNDY CORP.	Feb 06 75	10/13/76	GENERAL-TRAY-PRODUCTS	
HUSKY BURNDY PRODUCTS	Oct 14 76	12/11/80	CABLE TRAY AND MISC. ITEMS.	
IMPERIAL CLEVITE CO.	Aug 09 83	UN/PG&E	TUBULAR PRODUCTS	
INDAL-ALUMINUM	Mar 30 81	12/17/82	ALUMINUM-CONDUIT, COUPLINGS, AND-ELBOWS	
INDUSTRIAL TEXTILES	Oct 30 80	12/11/80	LAGGING CLOTH	
INSULATION SUPPLY COMPANY	Oct 14 76	12/11/80	TUBING, FIBER GLASS ROD.	
INSULATION-SUPPLY COMPANY	Mar 28 75	10/13/76	FIBRE-GLASS-ROD	
ITT GRINNELL COMPANY	Nov 01 79	12/11/80	ALL	
JAY PERRIN CO.	Sep 23 80	12/17/82	UNITED DUCT SEALER	
JOHNS - MANVILLE	Mar 17 83	06/22/83	COMMERCIAL-GRADE-ITEMS-ONLY	
JOHNS - MANVILLE	Jan 25 83	03/17/83	TRANSITE "RING-TITE" PRESSURE PIPE-RINGS, LUB & KIT	
KAISER ALUM & CHEM. SALES INC.	Oct 14 76	12/11/80	ALUMINUM CONDUIT	
KAISER-ALUMINUM-&CHEM. SALES	Mar 28 75	10/13/76	CONDUIT	
KAISER ALUMINUM ELEC. PRODUCTS	Feb 06 75	10/13/76	ALUMINUM CONDUIT	
KAISER SAND AND GRAVEL	Dec 13 78	12/11/80	ALL	
KAISER-STEEL	Dec 30 77	12/11/80	STRUCTURAL-STEEL	
KEENAN PIPE INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
KEENAN PIPE INC.	Apr 04 80	12/11/80	VALVES, COPPER SWEAT FITTINGS	
KESTER SOLDER CO.	Oct 14 76	12/11/80	60/40 ROSIN-CORE SOLDER	
KESTER SOLDER COMPANY	May 30 75	10/13/76	SOLDER	
KEY PIPE AND SUPPLY CO.	Mar 12 80	12/11/80	ALL	
KILSBY-TUBE	May 13 80	12/11/80	STAINLESS-AND-STRUCTURAL-TUBING	
KINGSLEY COMPANY	Dec 13 78	12/11/80	ALL	
KLINGER STEEL	Mar 26 80	12/11/80	REINFORCING STEEL AND FABRICATION	
KNECHT'S PLUMBING-& HEATING	May 06 83	06/22/83	COMMERCIAL HVAC-SUPPLIES	
KRUSE METAL MANUFACTURING CO.	Oct 08 80	12/11/80	FABRICATION, STEEL SHAPES, ETC.	
KULKA	Feb 23 77	12/11/80	TERMINAL BLOCKS	
L. MARKEL & SONS	Oct 14 76	12/11/80	TUBING	
L. MARKEL & SONS	May 30 75	10/13/76	SHRINK TUBING	
LIBERTY ENGINEERING	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
LIBERTY ENGINEERING	Sep 12 80	12/11/80	5/16" GOODRICH RIVNUTS, 5/16" HAND TOOLS	
LINCOLN ELECTRIC CO.	Jul 25 83	05/06/84	MANUFACTURER OF FERROUS WELDING MATERIAL	
LINCOLN ELECTRIC COMPANY	Oct 14 76	12/11/80	WELDING PRODUCTS, WELD ROD	
LINCOLN ELECTRIC COMPANY	Feb 06 75	10/13/76	WELDING PRODUCTS	
M & S PIPE SUPPLY	Feb 06 75	10/13/76	WELDING PRODUCTS, WELD TEST COUPONS	

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SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES QUALIFIED FOR	COMMENTS
M&S PIPE & SUPPLY COMPANY	Oct 14 76	12/11/80	WELDING PRODUCTS, ASTM-A36 STEEL	
MAG-TROL DISTRIBUTORS INC.	Oct 14 76	12/11/80	G.E. TERM. BLOCKS	
MANHATTAN ELECTRIC CABLE CORP	Feb 06 75	10/13/76	CABLE	
MASTER BUILDERS	Feb 14 80	12/11/80	EMBECO 636 GROUT	
MASTER BUILDERS	Mar 10 80	12/11/80	POZZOLITH 300-N AND MB-AE 10	
MASTER BUILDERS	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
MASTER-BUILDERS	Nov 30 82	12/17/82	EMPECO 713	
MCCULLOCK INDUSTRIES INC.	Feb 06 75	10/13/76	CONCRETE ANCHORS	
MCMASTER CARR SUPPLY CO.	Jun 02 80	12/11/80	METAL FASTENERS	
MCMASTER CARR SUPPLY COMPANY	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
MCMASTER CARR SUPPLY COMPANY	Apr 21 80	12/11/80	BRASS PIPE FIT., SPACE CLOTH, OPEN CELL RUBBER ETC.	
MEDCO METALS	Jul 07 83	UN/P&E	MANUFACTURED STEEL SHAPES AND PARTS	
MEDCO METALS	Jun 10 83	06/22/83	MANUFACTURED STEEL SHAPES AND PARTS	
METRO SUPPLY CO.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
METRO SUPPLY CO.	Feb 04 81	12/17/82	PIPE AND TUBE FITTINGS	
MIDLAND-ROSS	Aug 22 83	07/01/84	SUPERSTRUT.	
MIDLAND-ROSS CONDUIT CORP.	Nov 02 77	12/11/80	MISC. ELECTRICAL FITTINGS	
MINN. MINING & MFG. CO. (3-M)	Oct 14 76	12/11/80	INSULATED TAPE, ELECTRICAL TAPE	
MINNESOTA MINING & MFG. CO.	Feb 06 75	10/13/76	INSULATING TAPE, COLOR CODE TAPE, INSULATING PAINT	
MODERN INDUSTRIES	Oct 14 76	12/11/80	NUTS, BOLTS, MISC. HARDWARE, ASTM-A36 STEEL	
MONTEREY SAND CO.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
MONTEREY SAND CO.	May 13 80	12/11/80	30 MESH BAGGED SAND (FOR EPOXY)	
MORTON MANUFACTURING	Oct 20 78	12/11/80	"CATWALK-GRIPSTRUT" 13GA. GALV. STL. 18" X 2"	
MYERS ELECTRIC CO.	Oct 14 76	12/11/80	SCREW-TITE HUBS	
MYERS ELECTRIC PRODUCTS	Feb 06 75	10/13/76	HUBS, ETC.	
NATIONAL EXPANSION COMPANY	Oct 03 77	12/11/80	TECHKOTE #91	
NATIONAL SUPPLY CO. DIV. ARMCO	Apr 11 83	06/22/83	TESTING SERVICES, METALLURGICAL	
NEW JERSEY ALUMINUM	Mar 30 81	12/17/82	ALUMINUM CONDUIT, COUPLINGS & ELBOWS	
O-Z/GEONEY COMPANY	Jun 28 76	10/13/76	TYPE SSP SPLIT COUPLINGS	
O/Z GEONEY CO.	Oct 14 76	12/11/80	FITTINGS	
OZ/GEONEY CO.	Feb 06 75	10/13/76	FITTINGS, BOXES	
P & S MACHINE & CASTING CORP.	Feb 06 75	10/13/76	SPECIAL TRAY PRODUCTS	
P - W INDUSTRIES	Feb 06 75	10/13/76	STRUT & SUPPORT HARDWARE	
P.W. INDUSTRIES	Oct 14 76	12/11/80	TRAY HARDWARE	
PACIFIC GEO SCIENCE	Sep 29 82	12/17/82	RADIOGRAPH ACID ETCHING OF WELD TEST & CERT.	
PACIFIC STATES STEEL CORP.	Dec 30 77	12/11/80	STRUCTURAL STEEL	
PANDUIT CORP.	Oct 14 76	12/11/80	TIE WRAPS	
PANDUIT CORPORATION	Jan 28 76	10/13/76	CABLE TIES	
PHILLIPS	Aug 28 75	10/13/76	RED HEAD STUD	
PHILLIPS DRILL CO.	Oct 14 76	12/11/80	CONCRETE WEDGE AND STUD ANCHORS	
PHILLIPS DRILL CO. INC.	Feb 06 75	10/13/76	CONCRETE ANCHORS	
PITTSBURGH - DES MOINES	Aug 18 83	UN/P&E	STAINLESS STEEL, HIGH ALLOY, PLATE, SHEETS, STRIPS & BAR	
PLYMOUTH TUBE	Oct 04 78	12/11/80	STAINLESS STEEL SEAMLESS TUBING	
POWER STRUT	Oct 14 76	12/11/80	POWER STRUT HARDWARE	
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SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES QUALIFIED FOR	COMMENTS
POWER STRUT DIVISION	Apr 03 75	12/11/80	STRUT HARDWARE	
PRECISION MACHINE	Dec 13 78	12/11/80	ALL	
QUALITY HARDWARE MANUFACTURING	Dec 29 77	12/11/80	EXTENSION FLUSH BOLTS	
R.E.C. CORP.	Aug 03 83	10/22/85	FERROUS AND NON-FERROUS BOLTING MATERIAL	
RAYCHEM CORP.	Oct 14 76	12/11/80	INSULATING "THERMOFIT", ELEC. PUTTY S-1031	
RAYCHEM CORPORATION	Jul 12 83	UN/PG&E	THERMOFIT SLEEVE AND FLOATER SLEEVE MATERIAL	
RAYCHEM CORPORATION	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
RAYCHEM CORPORATION	Jun 14 82	12/17/82	ALL	
REPUBLIC SUPPLY COMPANY	Mar 19 80	12/11/80	GASKETS, FLANGE BOLTS, BRASS NIPPLES, PIPE, VALVES	
REPUBLIC SUPPLY COMPANY	Apr 28 80	12/11/80	ROBVON WELD BACKING RINGS TO HPF/SAR	DATE 03-19-80
REPUBLIC SUPPLY COMPANY	Jul 18 80	12/11/80	GASKETS, BOLTS, BRASS NIPPLES, PIPE, VALVES	
REPUBLIC SUPPLY OF CALIFORNIA	Jun 08 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
RIVERSIDE CEMENT	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
RIVERSIDE CEMENT CO.	Sep 18 79	12/11/80	TYPE II PORTLAND CEMENT	
RIVERSIDE CEMENT CO.	Mar 11 80	12/11/80	RIVERSIDE CEMENT	
ROBERT S. DEAL - RAYCHEM	Oct 14 76	12/11/80	SCOTCHFIL TAPE	
ROBVON BACKING RING COMPANY	Jan 23 80	12/11/80	ROBVON BACKING RING	
ROME CABLE & CONDUIT COMPANY	Apr 03 75	10/13/76	E.M.T. - NOT HOT DIPPED AS TO SPEC	
S.L.O. BUILDING SUPPLY	Jan 12 82	12/17/82	ALL	CONT. BUILD. SUPPLY
S.L.O. BUILDING SUPPLY	Dec 13 78	12/11/80	ALL	CONT. BUILD. SUPPLY
SAN LUIS READY MIX	Mar 17 83	06/22/83	READY MIXED CONCRETE	
SAN LUIS READY MIX	Nov 01 79	12/11/80	READY MIXED CONCRETE	
SANDVIK, INC.	Aug 08 83	06/11/83	FERR.&NON-FERROUS SEAM.&WELD. WO/FILL. METAL TUBU.	
SOLAR COMPOUNDS CORPORATION	Dec 18 78	12/11/80	CAULING COMPOUND KM-1146	
SOUTH BAY BOLT MANUFACTURING	Dec 30 77	12/11/80	STRUCTURAL BOLTS	
SPECIALITY TOOL	Dec 11 78	12/11/80	ALL	
STEAM SPECIALTIES	Jan 09 79	12/11/80	ALL	
STEAM SPECIALTIES	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
SUPERIOR STRUT	Oct 14 76	12/11/80	STRUT AND HARDWARE	
SUPERIOR STRUT & HANGER CO.	Feb 06 75	10/13/76	STRUT HARDWARE	
SWEETLAND CORP.	Jan 09 79	12/11/80	ALL	
T.J. COPE CO.	Oct 14 76	12/11/80	SUPPORT HARDWARE	
T.J. COPE COMPANY	Mar 28 75	10/13/76	SUPPORT HARDWARE	
TELEDYNE MCKAY WELD. PROD. DIV	Feb 06 75	10/13/76	WELDING PRODUCTS	
TELEDYNE MCKAY WELDING	Jul 18 83	07/16/85	FERROUS AND NON-FERROUS WELDING MATERIAL	
TEXAS BOLT CO.	Aug 08 83	UN/PG&E	HIGH STRENGTH BOLTS, NUTS AND WASHERS	
TEXAS BOLT COMPANY	Mar 23 83	06/22/83	HIGH STRENGTH BOLTS, NUTS, WASH.&COMM. GRADE ITEMS	
THOMAS & BETTS (T & B)	May 03 76	10/13/76	CLAMPING DEVICE TC342A	NOT SUPPORT DEVICE
THOMAS & BETTS (T & B)	May 06 76	10/13/76	GALVANIZED MALLEABLE PIPE STRAPS	
THOMAS & BETTS CO.	Feb 06 75	10/13/76	SEAL TITE FITTINGS, TY-RAPS, COLOR CODE TAPE, LUGS	
THOMAS & BETTS MFG. CO.	Oct 14 76	12/11/80	SEALTITE FLEX CONN., INSULINER SLEEVES, LUGS, ETC.	
TORO AIRE	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
TORO AIRE	Feb 08 82	12/17/82	RUSKIN FIRE DAMPERS	
TREMCO	Nov 29 77	12/11/80	MONO CAULKING	

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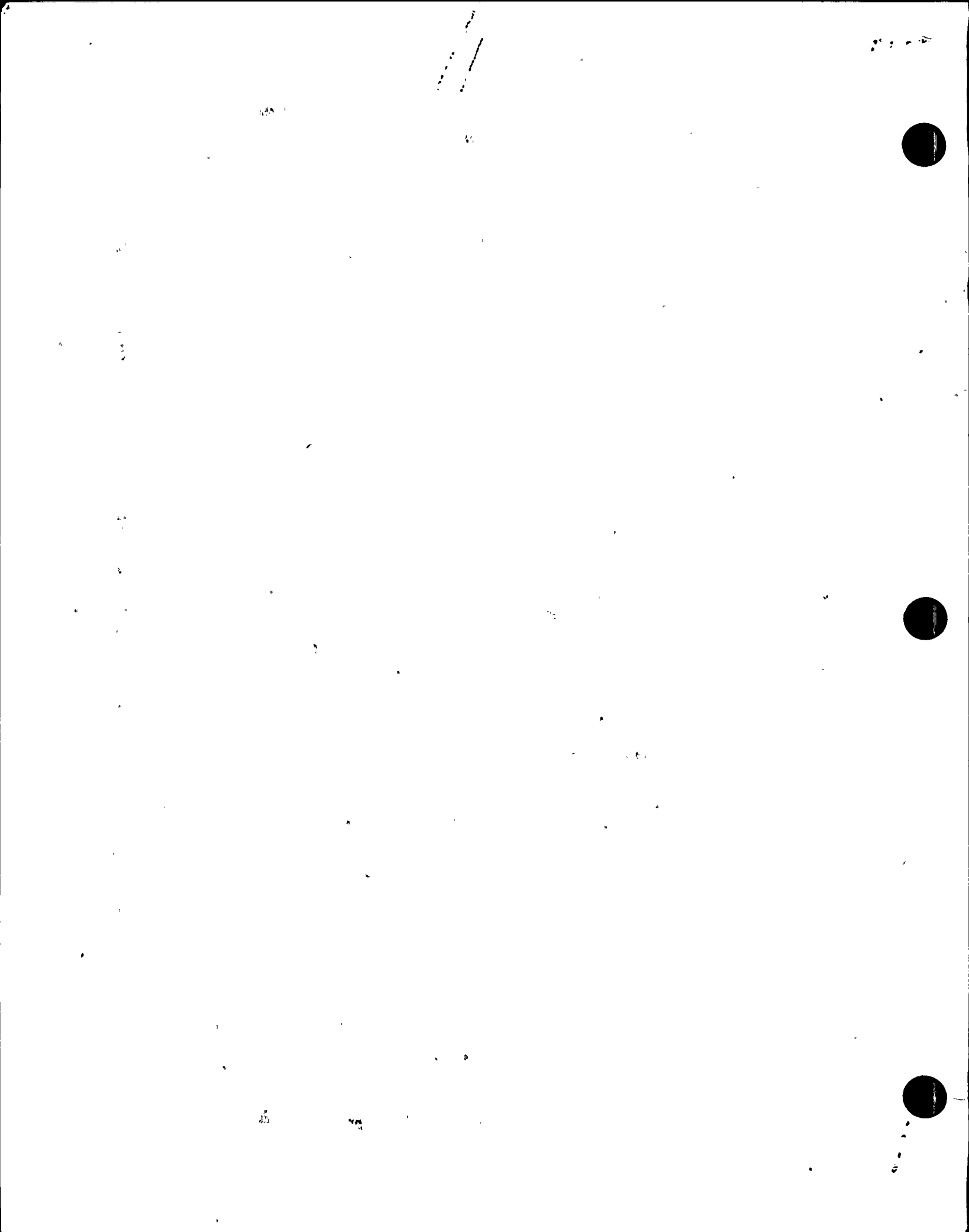
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SUPPLIER NAME	DATE OF QUALIF.	DATE OF EXPIR.	PRODUCTS/SERVICES QUALIFIED FOR:	COMMENTS
TREMICO	Dec 30 77	12/11/80	MONO CAULKING	
TRIANGLE PAINTS	Feb 26 80	12/11/80	TRIANGLE #56 ZINC RICH ORGANIC PRIMER	
TUBE TURNS	Aug 08 83	01/08/85	FERROUS & NON-FERROUS WO/FILLER-METAL-TUBULAR-PROD	
TUBESALES	Aug 17 83	UN/PG&E	STAINLESS STEEL TUBING	
TUBESALES	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
TUBESALES	Jan 12 82	12/17/82	STAINLESS-STEEL-SEAMLESS-TUBING	
TUCK INDUSTRIES INC.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
TUCK INDUSTRIES INC.	Oct 01 82	12/17/82	MODEL 92T YELLOW TAPE	
U.S. STEEL CORP	Aug-12 83	01/05/85	FERROUS-STRUCTURAL-SHAPES	
UNI-STRUT CORP.	Oct 14 76	12/11/80	STRUT HARDWARE	
UNISTRUT CORP.	Feb 06 75	12/11/80	SPECIAL STRUT PRODUCTS	
UNITED STATES STEEL CORP.	Aug-12 83	UN/PG&E	CARBON & LOW-ALLOY STRUCT. STEEL-SHAPES, BAR&PLATE	GARY, IN.
UNITED STATES STEEL CORP.	Aug 12 83	11/25/83	FERROUS STRUCTURAL SHAPES	CHICAGO, ILL.
UNITED STATES STEEL CORP.	Dec 30 77	12/11/80	STRUCTURAL STEEL	
UNITED STATES STEEL SUPPLY DIV	Mar-07 80	12/11/80	VARIOUS STEEL SHAPES	
VARAFLEX CORP.	Oct 14 76	12/11/80	SILFLEX SLEEVING, HA GLASS BRAID, #46 TYING CORD	
VENTURA VALVE AND FITTING CO.	Jun 08 82	12/17/82	SWAK PIPE THREAD SEALANT	
VENTURA VALVE AND FITTING CO.	Jan-09 79	12/11/80	ALL	
VENTURA VALVE AND FITTING CO.	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
U.R. GRACE AND COMPANY	Oct 03 77	12/11/80	HORNCURE 30C	
U.R. GRACE COMPANY	Nov-29 77	12/11/80	EXPOXTITE #2390	
WELDERS SUPPLY	Feb 06 75	10/13/76	WELDING PRODUCTS	
WESTERN TUBE & CONDUIT CORP.	Oct 14 76	12/11/80	RIGID IRON AND EMT CONDUIT	
WESTERN TUBE & CONDUIT CORP.	Feb 06 75	10/13/76	CONDUIT	
WESTINGHOUSE	Dec 19 77	12/11/80	TERMINAL BLOCKS (T3AL90) FOR USE ABOVE 30 AMP.	
WESTINGHOUSE ELECTRIC SUPPLY	Oct 14 76	12/11/80	HUSKY-BURNNOY, CABLE TRAY	
WILLIAMS FORM ENGINEERING CORP.	Mar-17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
WILLIAMS FORM ENGINEERING CORP	Aug 15 78	12/11/80	WIL-X-CEMENT GROUT	
WISBERG LUMBER	Mar 17 83	06/22/83	COMMERCIAL GRADE ITEMS ONLY	
WISBURG LUMBER	Jan-14 82	12/17/82	DURABOND-90-AND-210	
WISBURG LUMBER	Dec 18 81	12/17/82	GYPSON BOARD AND DRYWALL SCREWS (U.S. GYPSON)	
Z.R.C. CHEMICAL PRODUCTS CO.	Mar 29 75	10/13/76	Z.R.C. COLD GALVANIZING COMPOUND	
ZRC CHEMICAL PRODUCTS CO.	Feb-06 75	10/13/76	ZRC COATING	
ZRC PRODUCTS CO.	Oct 14 76	12/11/80	ZRC IN QT. CANS	

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CHEMISTRY AND RADIATION PROTECTION TECHNICIAN RESUME AND QUALIFICATION STATUS
PART 1 RESUMENAME BOWN, CARY L. DATE OF BIRTH 07 NOV. 59 SOC SEC NUMBER 555-31-4667 CURRENT DATE 4/24/83

EDUCATION

Applicable
To C&RP QualHigh SchoolName and Location JOHN MOIR, ¹⁹⁰⁵ N. LINCOLN PASADENA, CA Dates Attended 9/73 - 6/77 Diploma yesScience and Math Courses ALGEBRA, GEOMETRY, Biology, PHYSICAL SCIENCEJunior College

1. Name and Location _____ Dates Attended _____ Degree _____

Science and Math Courses _____

2. Name and Location _____ Dates Attended _____ Degree _____

Science and Math Courses _____

College or University

1. Name and Location _____ Dates Attended _____ Degree _____

Science and Math Courses _____

2. Name and Location _____ Dates Attended _____ Degree _____

Science and Math Courses _____

Technical or Military Schools1. Name and Location NUCLEAR POWER school NPS, NPTU ORLANDO FLORIDA Length 6 months Dates Attended 10/6/78 - 3/30/79
4/16/79 - 10/13/79Subject Material MATH, PHYSICS, MECHANICAL & ELECTRICAL THEORY, REACTOR PHYSICS, HEAT TRANSFER & FLUID FLOW2. Name and Location NPTU (PROTOTYPE) IDAHO FALLS, IDAHO Length 6 months Dates Attended 4/16/79 - 10/13/79Subject Material MECHANICAL & FLUID SYSTEMS, ELECTRICAL SYSTEMS, REACTOR CONSTRUCTION, PLANT OPERATION3. Name and Location ENGINEERING LABORATORY TECHNICIAN IDAHO FALLS, IDAHO Length 3 months Dates Attended 10/22/79 - 1/19/80Subject Material POWER PLANT CHEMISTRY & RADIOCHEMISTRY, RADIOLOGICAL CONTROLSTraining Courses from Employer1. Employer Mississippi Power & Light Co. Length 6 WEEKS Dates Attended 1/4/82 - 2/14/82Course Title BWR CHEMISTRY FOR TECHNICIAN Subject Material CHEMISTRY, RADIOCHEMISTRY, COUNTING EQUIPMENT CALIBRATION2. Employer Mississippi Power & Light Co. Length 4 WEEKS Dates Attended 8/9/82 9/3/82Course Title SYSTEMS COURSE Subject Material POWER PLANT MECHANICAL & FLUID AND ELECTRICAL SYSTEMS

13

14



PREVIOUS EMPLOYMENT (Including Military Service)

1. From 12/2/77 to 11/10/81 Employer UNITED STATES NAVY Location PEARL HARBOR, HI Job Title ENGINEERING LABORATORY TECHNICIAN
 Job Duties ANALYZE REACTOR COOLANT AND STEAM PLANT WATERS FOR VARIOUS CHEMICAL AND RADIOACTIVE CONSTITUANTS, add chemicals required to minimize corrosion, TAKE RADIATION, CONTAMINATION AND AIRBORNE SURVEYS

LAST DUTY STATION:
 USS SKATE (SSN-578)

2. From 11/1/82 to 12/8/82 Employer Mississippi Power & Light Co. Location Grand Gulf Nuclear Station Job Title Radiochemist II
 Job Duties MONITOR REACTOR AND STEAM PLANT WATERS, AUXILIARY FLUIDS, VENTILATION SYSTEMS FOR CHEMICAL AND RADIOACTIVE CONSTITUANTS, develop programs, write procedures; CALIBRATE AND DOCUMENT EQUIPMENT

3. From _____ to _____ Employer _____ Location _____ Job Title _____
 Job Duties _____

4. From _____ to _____ Employer _____ Location _____ Job Title _____
 Job Duties _____

5. From _____ to _____ Employer _____ Location _____ Job Title _____
 Job Duties _____

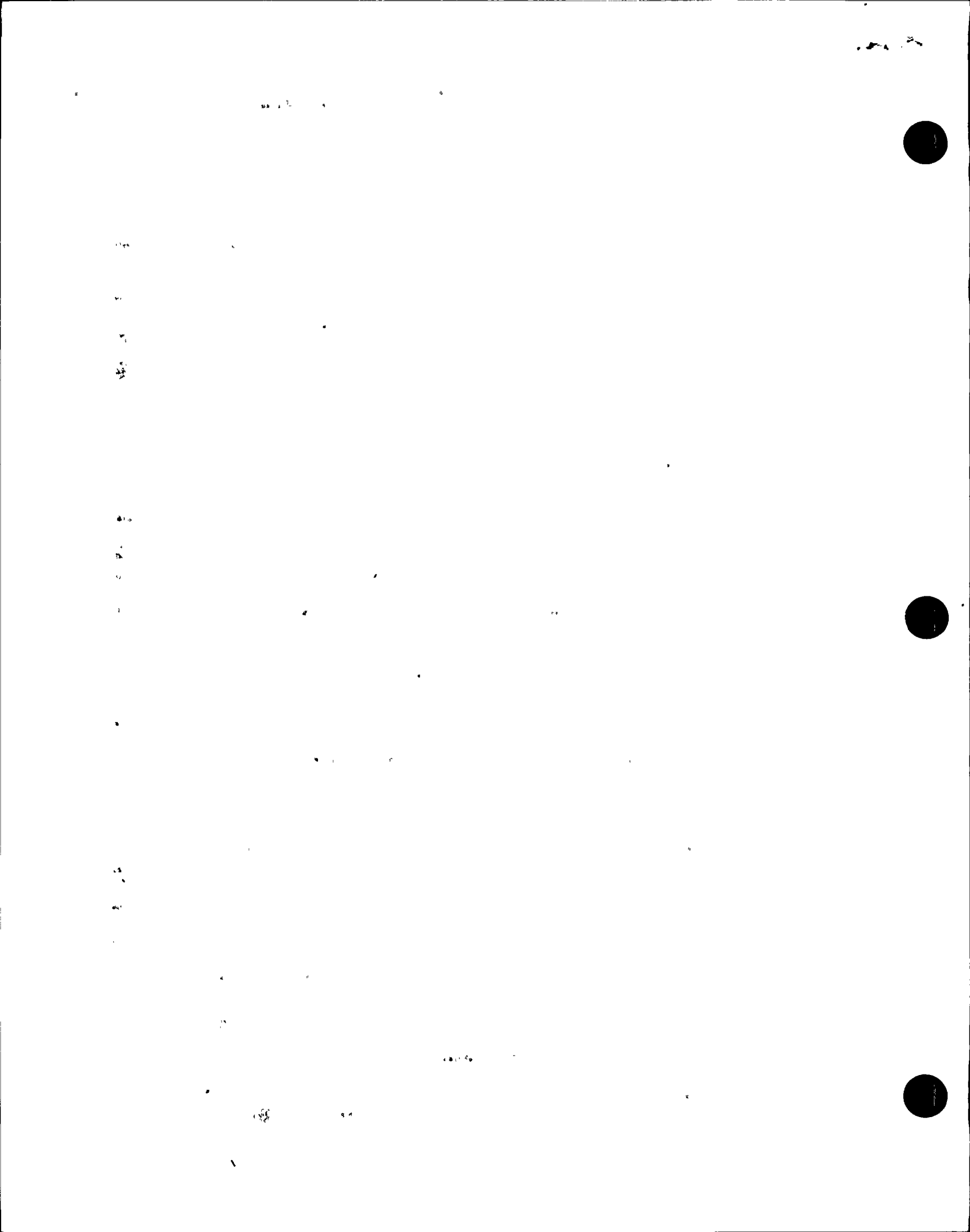
6. From _____ to _____ Employer _____ Location _____ Job Title _____
 Job Duties _____

PACIFIC GAS AND ELECTRIC EXPERIENCE (Prior to C&RP)

1. From _____ to _____ Location _____ Job Title _____
 Job Duties _____

2. From _____ to _____ Location _____ Job Title _____
 Job Duties _____

Comments _____



51



Allocation #60

May 7, 1975

L. Frank Markel & Sons
Morristown
Pennsylvania

RE: Quality Program
Shrink Tubing

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN
La Moyne E. Addleman
Project Manager

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Offices:

- MORRISTOWN, PENNSYLVANIA
- BALTIMORE, MARYLAND
- CHICAGO, ILLINOIS
- DALLAS, TEXAS
- RRISBURG, PENNSYLVANIA
- HOUSTON, TEXAS
- LOS ANGELES, CALIFORNIA
- MARTINEZ, CALIFORNIA
- MEMPHIS, TENNESSEE
- NEW ORLEANS, LOUISIANA
- PHILADELPHIA, PENNSYLVANIA
- PHOENIX, ARIZONA
- PITTSBURGH, PENNSYLVANIA
- RICHMOND, VIRGINIA
- SALT LAKE CITY, UTAH
- TAMPA, FLORIDA
- TUCSON, ARIZONA
- WASHINGTON, D.C.

Canadian Subsidiary:

EDMONTON, ALBERTA

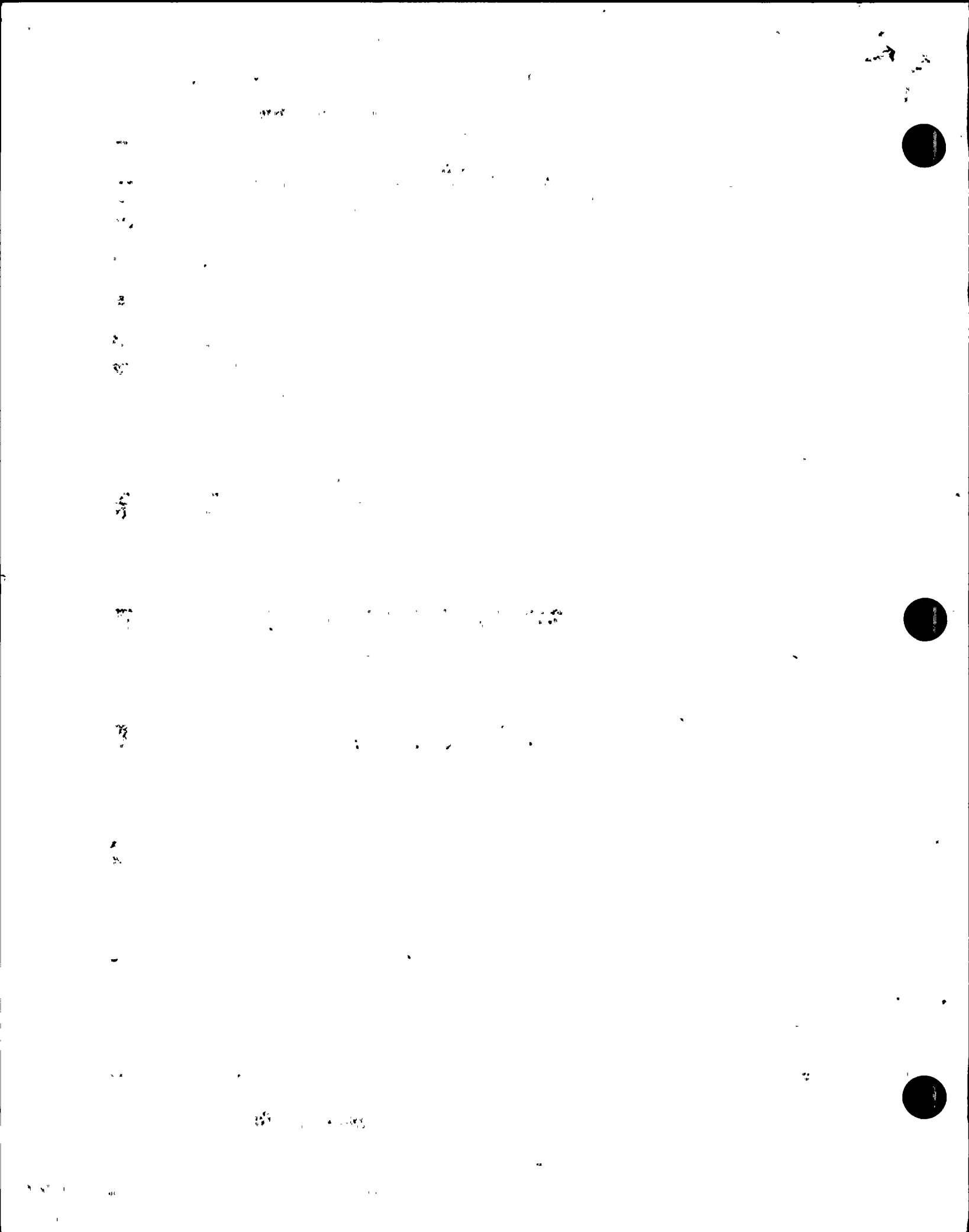
RVG/sc

cc: J. Green

Attachments

213

44



THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: L. Frank Markel & Sons, Inc.
Address: 1959 School Lane, Norristown, Pa. 19404 (215) Phone: 272-8960
Total Personnel: 260 Total Personnel in Quality Program: 9
Shop Superintendent: _____
Head of Quality Program: B. F. Gilinger, Quality Assurance Manager

EVALUATION BY PAST PERFORMANCE:

Good

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

YES

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

YES: RECEIVING, IN PROCESS, FINAL

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

YES: QA MANUAL

ARE WORKERS QUALIFIED? (State Qualifications)

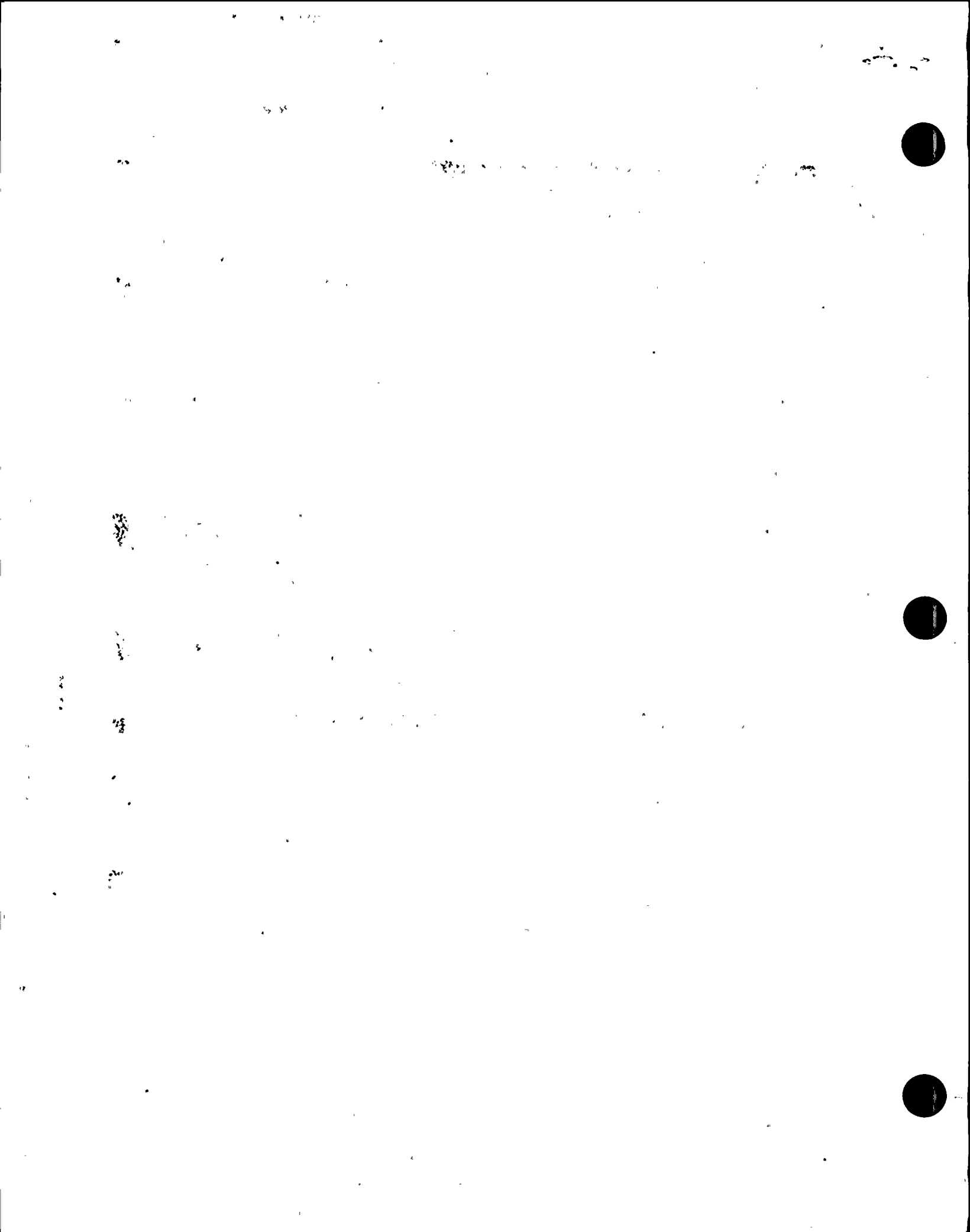
YES, EDUCATION + OJT

LIST OF MACHINERY AVAILABLE:

YES

TYPE OF WORK PERFORMED:

PLASTIC INSULATION OF TUBINGS + SLEEVINGS, High TEMPERATURE WIRE + CABLE



WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)

Good

IS SHOP CLEAN AND ORDERLY?

YES

DOES STOCK HAVE TRACEABILITY, CERTS.?

YES

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?

YES TO MIL-C-45662

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?

140,000 sq. feet

IS THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes ___ No ___

Q.A. Engineer/Inspector _____ Date _____

Approved by: Q.A. Supervisor _____ Date _____

marks:

Jim's Copy



Allegation #60

June 11, 1974

Minnesota Mining and
Manufacturing Company
320 Shaw Road
South San Francisco, California 94080

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: L. E. Brown
cc: L. E. Addleman

JG/DJD/sc

Enclosure

THE
RD P. FOLEY
COMPANY
P. O. BOX 327,
BEACH, CALIF.
93424
805-595-2322

Branches:
LAKE CITY, UTAH
MORE, MARYLAND
HOENIX, ARIZONA
HOUSTON, TEXAS
TINEZ, CALIFORNIA
H, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
LEANS, LOUISIANA
N, PENNSYLVANIA
A, PENNSYLVANIA
G, PENNSYLVANIA
HMO, VIRGINIA
WASH, D.C.

214

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THE HOWARD P. FOLEY COMPANY
SUPPLIER EVALUATION

Name of Shop or Supplier: 3M Co., Electro Products Div
Address: New Ulm, Minn. 320 Shaw Rd South San Francisco Phone: 761-1155
Total Personnel: — Total Personnel in Quality Program: —
Plant Superintendent: Plant Manager: Ben Thompson
Head of Quality Program: AT Plant (New Ulm) Elmer Lehmann Q.C. Supr.

EVALUATION BY PAST PERFORMANCE:

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

Yes Yes

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

yes - all phases, - INCOMING, INPROCESS & FINAL QC INSPECTION

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

yes

ARE WORKERS QUALIFIED? (State Qualifications)

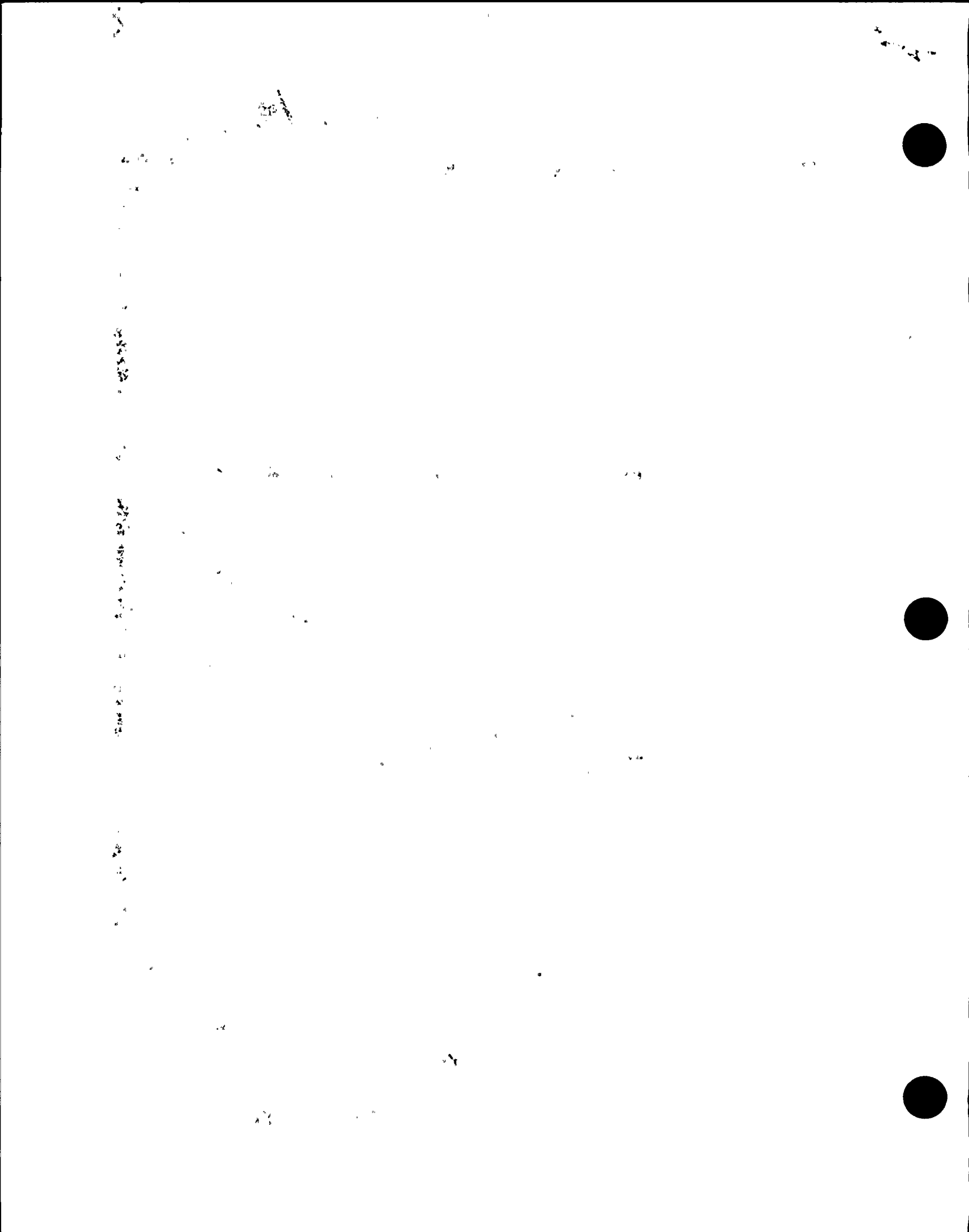
yes - SERVE

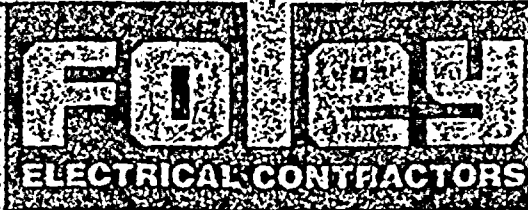
LIST OF MACHINERY AVAILABLE:

Production Machinery - No.

TYPE OF WORK PERFORMED:

Assembly, Molding, Formulating, Mixing, Extruding, Plating





JMS

June 12, 1974

Myers Electric Products
1130 S. Vail
Manhattan Beach, California

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573
QUALITY PROGRAM

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: W. E. Brown
cc: L. E. Addleman

JG/DJD/bg

Enclosure

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

- Branches:
- SALT LAKE CITY, UTAH
 - BALTIMORE, MARYLAND
 - PHOENIX, ARIZONA
 - HOUSTON, TEXAS
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 - ALLENTOWN, PENNSYLVANIA
 - PHILADELPHIA, PENNSYLVANIA
 - HARRISBURG, PENNSYLVANIA
 - RICHMOND, VIRGINIA
 - WASHINGTON, D.C.

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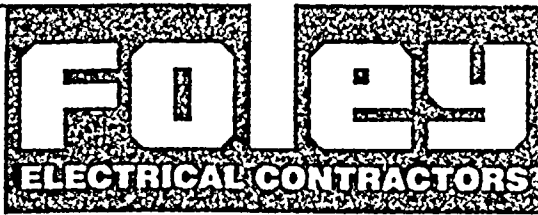
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June 12, 1974

*re-Submitted
6-28-74*

Myers Electric Products
1130 S. Vail
~~Manhattan Beach, California~~

Montebello

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573
QUALITY PROGRAM

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan

Daniel J. Dugan
Manager of Quality

cc: W. E. Brown

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
MANHATTAN BEACH, CALIF.



THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
MANHATTAN BEACH, CALIFORNIA
93424

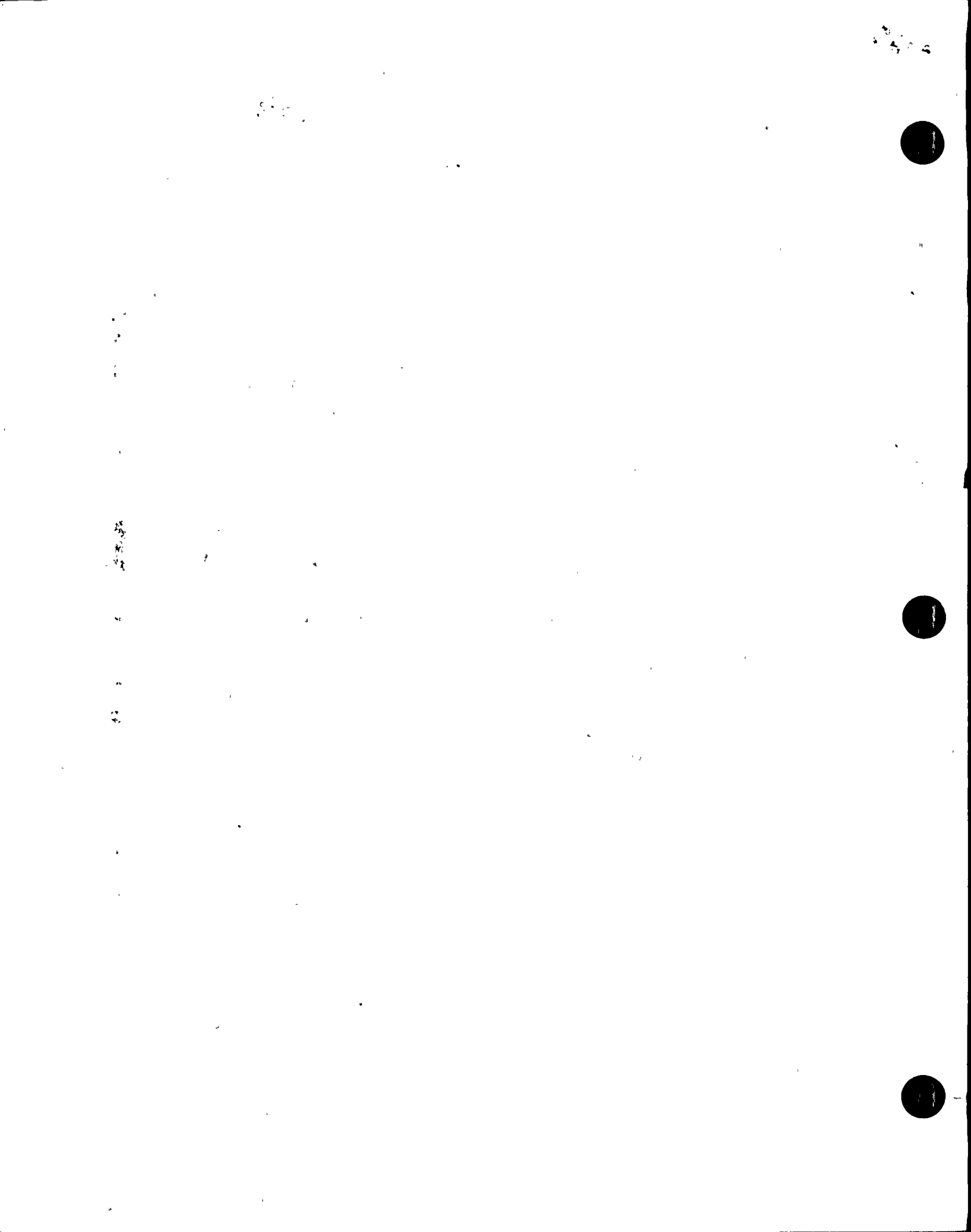


REASON CHECKED
Unclaimed *initials*
Addressee unknown
Insufficient Address
No such street number
No such office in state
Do not remain in this envelope

*Moved to
Montebello*

Myers Electric Product
1130 S. Vail
Manhattan Beach, Calif

53/ RB





August 23, 1974

Myers Electric Products
1130 S. Vail Avenue
Montebello, California

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

On 6/28/74 we wrote you regarding your Quality Program and we have not yet received an answer. In order for us to continue using your products, we must have this information.

Please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

Encl.

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
LA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
BURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
PITTSBURGH, PENNSYLVANIA
PHILADELPHIA, PENNSYLVANIA
HARRISBURG, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

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12/19/77

12/19/77

12/19/77

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12/19/77

THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: Myers Electric Prod. Inc

Address: 1130 So. Vail Ave Phone: 213 724-0450

Plant Personnel: 98 Total Personnel in Quality Program: 6

Superintendent: Abner Giannio

Manager of Quality Program: Chuck Bettinger

EVALUATION BY PAST PERFORMANCE: Excellent

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?
Yes

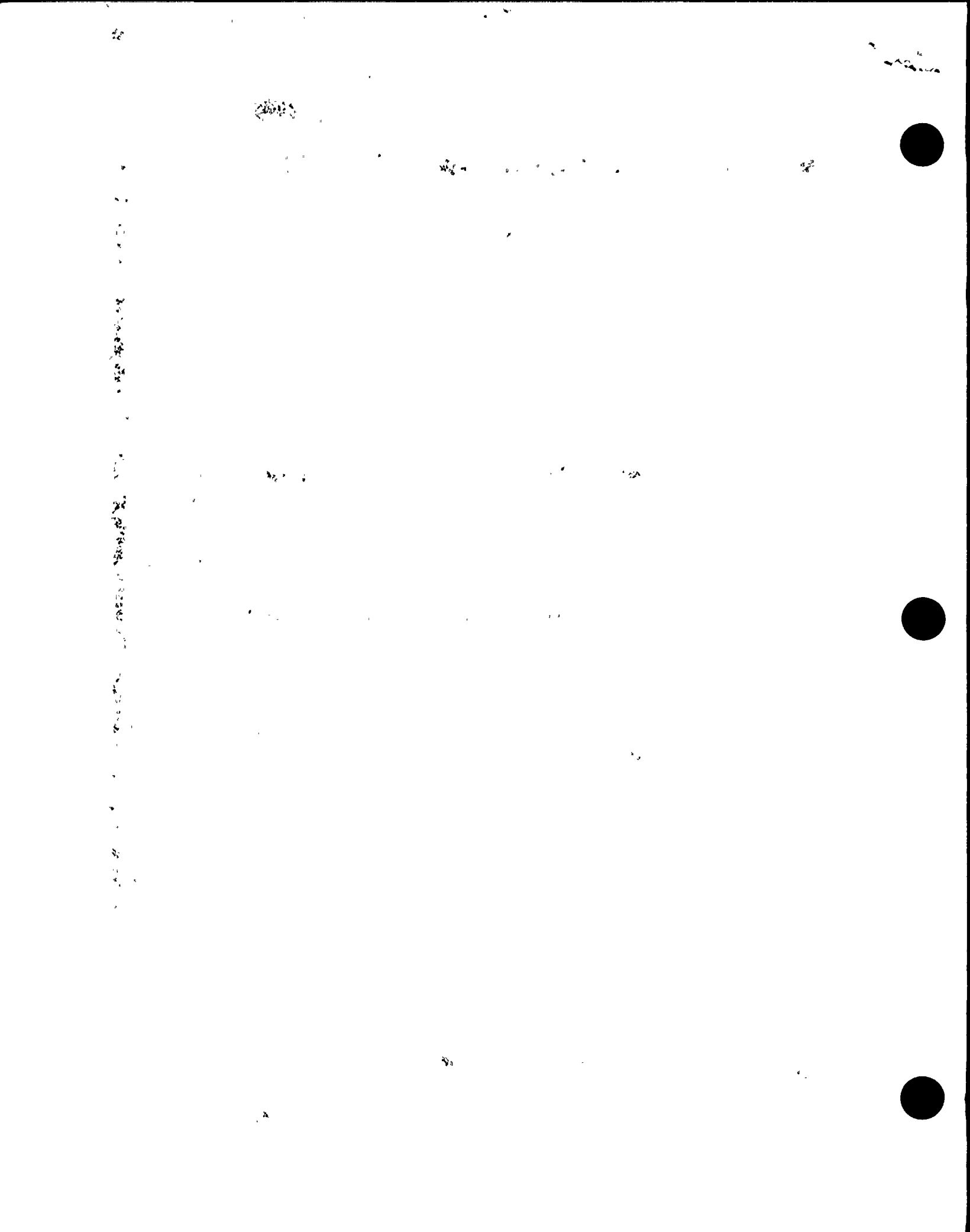
IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?
Yes Final

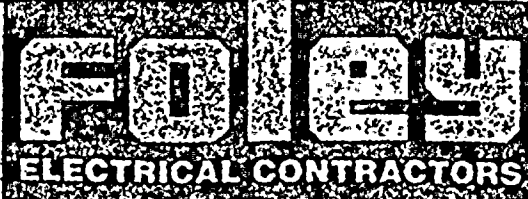
IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?
Yes

ARE WORKERS QUALIFIED? (State Qualifications)
Yes

LIST OF MACHINERY AVAILABLE:

TYPE OF WORK PERFORMED:
Mfg





J.M.'s

June 12, 1974

OO Electrical Mfg. Company
252 Bond Street
Brooklyn, New York 11217

RE: P.O. 6E Contract
22C-8807-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: W. E. Brown
cc: L. B. Addleman

JG/DJD/sc

Enclosure

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327,
AVILA BEACH, CALIF.
93424,
805-595-2322

Branches:

- SALT LAKE CITY, UTAH
- BALTIMORE, MARYLAND
- PHOENIX, ARIZONA
- HOUSTON, TEXAS
- MARTINEZ, CALIFORNIA
- PITTSBURGH, PENNSYLVANIA
- TAMPA, FLORIDA
- TUCSON, ARIZONA
- NEW ORLEANS, LOUISIANA
- ALLENTOWN, PENNSYLVANIA
- PHILADELPHIA, PENNSYLVANIA
- HARRISBURG, PENNSYLVANIA
- RICHMOND, VIRGINIA
- WASHINGTON, D.C.

217 48

FOLEY

ELECTRICAL CONTRACTORS

July 31, 1974

OZ Electrical Mfg. Company
262 Bond Street
Brooklyn, New York 11217

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573
Quality Program

Gentleman:

We would appreciate any literature you could provide us
on your Quality Program.

Would you please fill out the enclosed information sheet
and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
DANIEL J. DUGAN
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

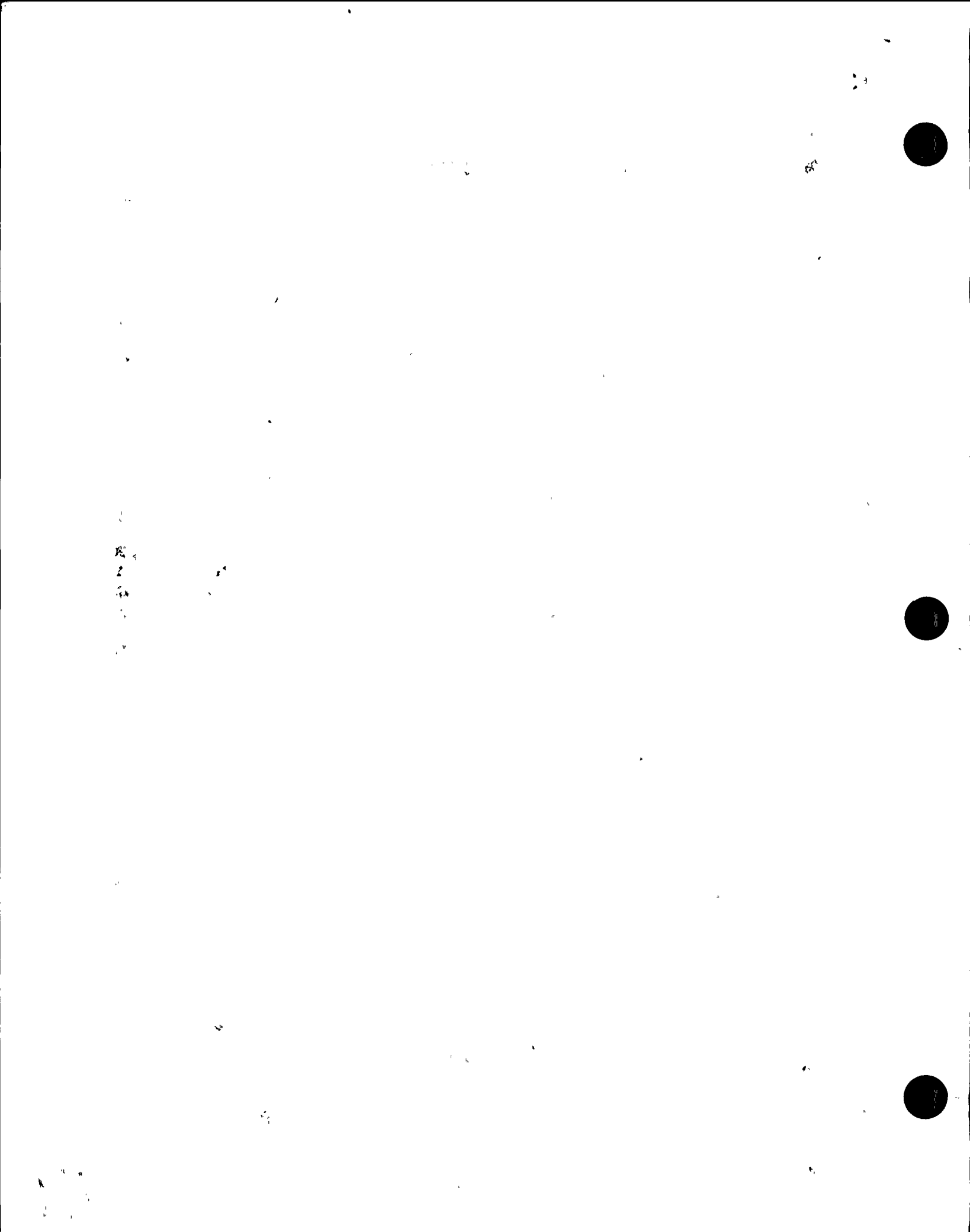
Attachment

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

Branches
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
PITTSBURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
ALLENTOWN, PENNSYLVANIA
PHILADELPHIA, PENNSYLVANIA
HARRISBURG, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

718
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51

RECEIVED
Avila Beach, Calif.



08/19 9-10-74
J.G. [Signature]

SEP 10 1974

August 23, 1974

HOWARD P. FOLEY CO.

OZ Electrical Mfg. Company
262 Bond Street
Brooklyn, New York 11217

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

On 7/31/74 we wrote you regarding your Quality Program and we have not yet received an answer. In order for us to continue using your products, we must have this information.

Please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

Encl.

RECEIVED
QA-QC

10
SEP 24 1974

HOWARD P. FOLEY CO.
Avila Beach, Calif.

Dear Sir,
We are truly sorry
for the delay, please
Accept our Apology
Thank you
R.F. [Signature]

219 50

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
BEACH, CALIF.
93424
805-595-2322

Branches:
LAKE CITY, UTAH
Baltimore, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
TINEZ, CALIFORNIA
PHILADELPHIA, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
PHILADELPHIA, PENNSYLVANIA
PHILADELPHIA, PENNSYLVANIA
CHAMBERSBURG, PENNSYLVANIA
WASHINGTON, D.C.

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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: O.Z./Gedney Company
Address: 262 Bond Street - Brooklyn, New York 11217 Phone: (212) 624-4200
Total Personnel: 250 Total Personnel in Quality Program: 3
Quality Superintendent: Mr. Anthony Izzo
Head of Quality Program: Mr. Robert F. Polimine

EVALUATION BY PAST PERFORMANCE: To be answered by H.P. Foley Company.

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?
The OZ/G Q.C. program provides written Q.C. procedures for many products but not all. OZ/G does not have a Q.A. Manual.

INSPECTION PROVIDED? AT WHAT STAGE OF WORK?
The OZ/G Q.C. inspection program consists of incoming raw mat'l inspections, vendor purchased mat'l inspections, in-process inspections, and final assembly inspections. Special additional inspections and certifications are made upon customer request.

WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?
All products are fabricated according to OZ/G Engineering drawing, specifications, and customer specifications. Written procedures, (operations sheets), etc., are used and are very closely adhered to.

ARE WORKERS QUALIFIED? (State Qualifications)
The OZ/G Q.C. Dept. is managed by an Engineering College Graduate majoring in Mechanical/Industrial Engineering. The Q.C. Dept. is staffed by two tech. technicians. -Also assisting the Q.C. Dept. are several shop personnel who are at the level of Foreman. The work force is above average in qualification for machine/assembly type electrical products.

LIST OF MACHINERY AVAILABLE:
Drilling, Boring, Reaming, & Tapping machines, milling mach, lathes, plastic molding mach, presses and press brakes, all foundry equip., plating machines, abrasive machines, EDM machines, bending and forming machines, automatic assembly machines, grinding machines.

TYPE OF WORK PERFORMED:
Die castings, thermoplastic molding, machining of metals & non-metals, electroplating, spray painting, assembly of parts, plastic coating of parts.

/SE

cc: Kurt Bramer

D. Turilli

VF
EB
JK
LS
PC

Q.C.
Q.A.
Material
Production

7-13L

PACIFIC GAS AND ELECTRIC COMPANY

245 MARKET STREET • SAN FRANCISCO, CALIFORNIA 94106 • (415) 781-4211 • TWX 910-372-6587

P. O. Box 117

Avila Beach, CA 93424

July 8, 1976

The Howard P. Foley Company
P. O. Box 327
Avila Beach, CA 93424

Attention: L. Addleman
Project Manager

Diablo Canyon Project
Specification 8802
Your Letter Dated 7-2-76
Approval of Material

Gentlemen:

Your request for approval of Panduit ABMS-A adhesive backed mounts are approved. These are very similar to T & B TC342A mounts. These adhesive backed mounts are not to be used as a support device in accordance with our May 3, 1976 letter.

The Panduit AM2 mounts are not adhesive backed and are not approved.

Sincerely,

R. R. Friedrichs
R. R. Friedrichs
Project Superintendent

RECEIVED
QUALITY CONTROL

JUL 13 1976

HOWARD P. FOLEY CO.
Avila Beach, Calif.

220

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E



69



November 20, 1975

Panduit Corporation
17301 Ridgeland Avenue
Tinley Park, Illinois, 60477

RE: Quality Program
Panduit Products

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheets and return.

Sincerely,

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN
La'Moyne E. Addleman
Project Manager

EB/sc

cc: V. Tennyson

Attachment

THE
EDWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Offices:

ANTOWN, PENNSYLVANIA
BALTIMORE, MARYLAND
CHICAGO, ILLINOIS
DALLAS, TEXAS
ESBURG, PENNSYLVANIA
HOUSTON, TEXAS
LOS ANGELES, CALIFORNIA
MARTINEZ, CALIFORNIA
MEMPHIS, TENNESSEE
NEW ORLEANS, LOUISIANA
PHILADELPHIA, PENNSYLVANIA
PHOENIX, ARIZONA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
SALT LAKE CITY, UTAH
TAMPA, FLORIDA
TUCSON, ARIZONA
WASHINGTON, D.C.

Subsidiary:

EDMONTON, ALBERTA

Fo 1A84-21

221

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60

COPY

P. O. Box 117
Avila Beach, CA 93424

January 28, 1976

The Howard P. Foley Company
P. O. Box 327
Avila Beach, CA 93424

Attention: L. Addleman
Project Manager

Diablo Canyon Project
Specification 8802
5th Addendum to Qualified
Suppliers Log

Gentlemen:

Your 5th addendum is approved for Panduit cable ties.

Sincerely,

(SIGNED) C. K. MAXFIELD
C. K. Maxfield
Project Superintendent

RECEIVED
MAY 1976

RECEIVED
QA-QC

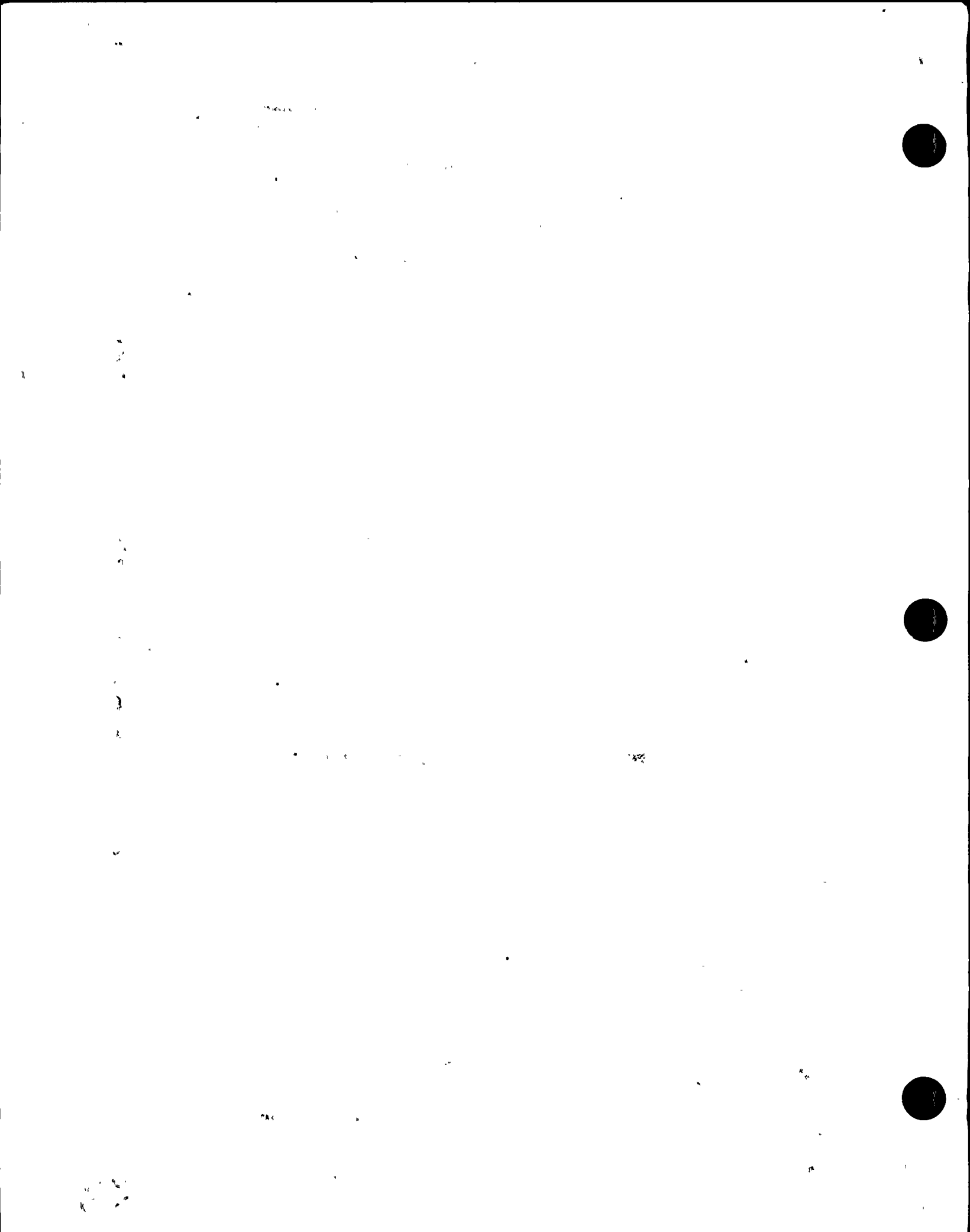
FEB 9 1976

DO NOT WRITE IN THESE SPACES

HOWARD P. FOLEY CO.
Avila Beach, Calif.

222

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January 22, 1976

Mr. C. K. Maxfield
Project Superintendent
Pacific Gas and Electric Company
P. O. Box. 117
Avila Beach, California 93424

ATTENTION: P. J. Nelson

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

5th Addenda to Qualified
Suppliers Log

Gentlemen:

We are enclosing a copy of The Howard P. Foley Company's
Supplier Evaluation Form completed by Panduit
Corporation for your consideration in adding Panduit
Corporation to our Qualified Supplier Log.

We are also enclosing a Panduit Catalog; however; the
only items to consider are the Panduit tie wraps.

Sincerely,

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN
La'Moyne E. Addleman
Project Manager

EB/sc

cc: V. Tennyson

Enclosures

61
THE
WARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Offices:

PHILADELPHIA, PENNSYLVANIA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
SALT LAKE CITY, UTAH
TAMPA, FLORIDA
TUCSON, ARIZONA
WASHINGTON, D.C.

Canadian Subsidiary:
EDMONTON, ALBERTA

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SUPPLIER EVALUATION

Shop or Supplier: Panduit Corp.

Address: 17301 Ridgeland Avenue, Tinley Park, IL 60477. Phone: (312) 532-1800

Total Personnel: 268 Total Personnel in Quality Program: 51

Top Superintendent: Vice President of Operations, Jim Hood

Head of Quality Program: Manager of Staff Operations, Bill Simpson

EVALUATION BY PAST PERFORMANCE: This form, and in particular this section of the form, appears to be intended for completion by a representative of Howard P. Foley.

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?
Panduit Corp. has a manual of procedures for Quality assurance. We feel that the manual is more than adequate, but more importantly, that the quality of our actual production is superior.

QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?
We employ receiving inspection to screen purchased components. Our own production is inspected during production, after production is complete, and again after all packaging is completed.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?
Yes, in addition to the quality control procedures mentioned above, we have written procedures and set-up sheets on production operations.

ARE WORKERS QUALIFIED? (State Qualifications)
Our workers are qualified internally thru training. Entrance requirements are not specifically stated.

LIST OF MACHINERY AVAILABLE:
Test gauges, calibration fixtures, micrometers, comparators, tensile testers; melt point apparatus (for plastics).

TYPE OF WORK PERFORMED:
Production work - visual, functional - both ease of use and performance in use.

WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)

This question also appears to have been intended for completion by a representative of Howard P. Foley.

IS SHOP CLEAN AND ORDERLY?

Yes. Housekeeping is used as an item in performance appraisals and is stressed all year around.

DOES STOCK HAVE TRACEABILITY, CERTS.?

Yes. Finished product is traceable to the Raw Material used in manufacture. In the case of nylon, the raw material is certified by the manufacturer. This traceability thru the QC number also allows us to review manufacturing conditions and the people involved in the order.

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?

Yes, instruments are calibrated according to procedures on a regular basis. The Q.C. system mentioned above provides traceability.

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?

Shop size is approximately 500,000 sq. ft. Panduit conforms to State Safety orders.

IS THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes X No

Panduit Corp. does not produce anything that it is not qualified to produce.

Q.A. Engineer/Inspector

Date

Approved by:

Aubrey L. Fisher
Q.A. Supervisor

12/13/75
Date

marks:

W. Simpson
Mgr. Staff Operations

12/02/75
Date

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FOLEY
ELECTRICAL CONTRACTORS

August 29, 1974

Phillips Drill Company
3635 S. San Pedro Street
Los Angeles, CA 90011

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide on your Quality Program. Also, we would appreciate receiving your catalog.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJM/ag

Attachment

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF
93424
805-595-2322

Branches:

- SALT LAKE CITY, UTAH
- BALTIMORE, MARYLAND
- PHOENIX, ARIZONA
- HOUSTON, TEXAS
- MARTINEZ, CALIFORNIA
- PITTSBURGH, PENNSYLVANIA
- TAMPA, FLORIDA
- TUCSON, ARIZONA
- NEW ORLEANS, LOUISIANA
- ALLENTOWN, PENNSYLVANIA
- PHILADELPHIA, PENNSYLVANIA
- HARRISBURG, PENNSYLVANIA
- RICHMOND, VIRGINIA
- WASHINGTON, D.C.

(224) 55

1954



1954

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Phillips Drill Company, Inc.
PO Box 364 Michigan City, Indiana 46360
Tel. 219 874-4217 Cable "Red Head"
A Subsidiary of ITT

October 9, 1974

Phillips Drill Company
3635 South San Pedro Street
Los Angeles, California 90011

Mr. Daniel J. Dugan
The Howard P. Foley Company
P.O. Box 327
Avila Beach, California 93424

Dear Mr. Dugan:

Here is the information you requested. If I can be of further assistance, please don't hesitate to contact me at my L.A. office.

Sincerely,

Chip Werstein
District Sales Manager

CW:dai

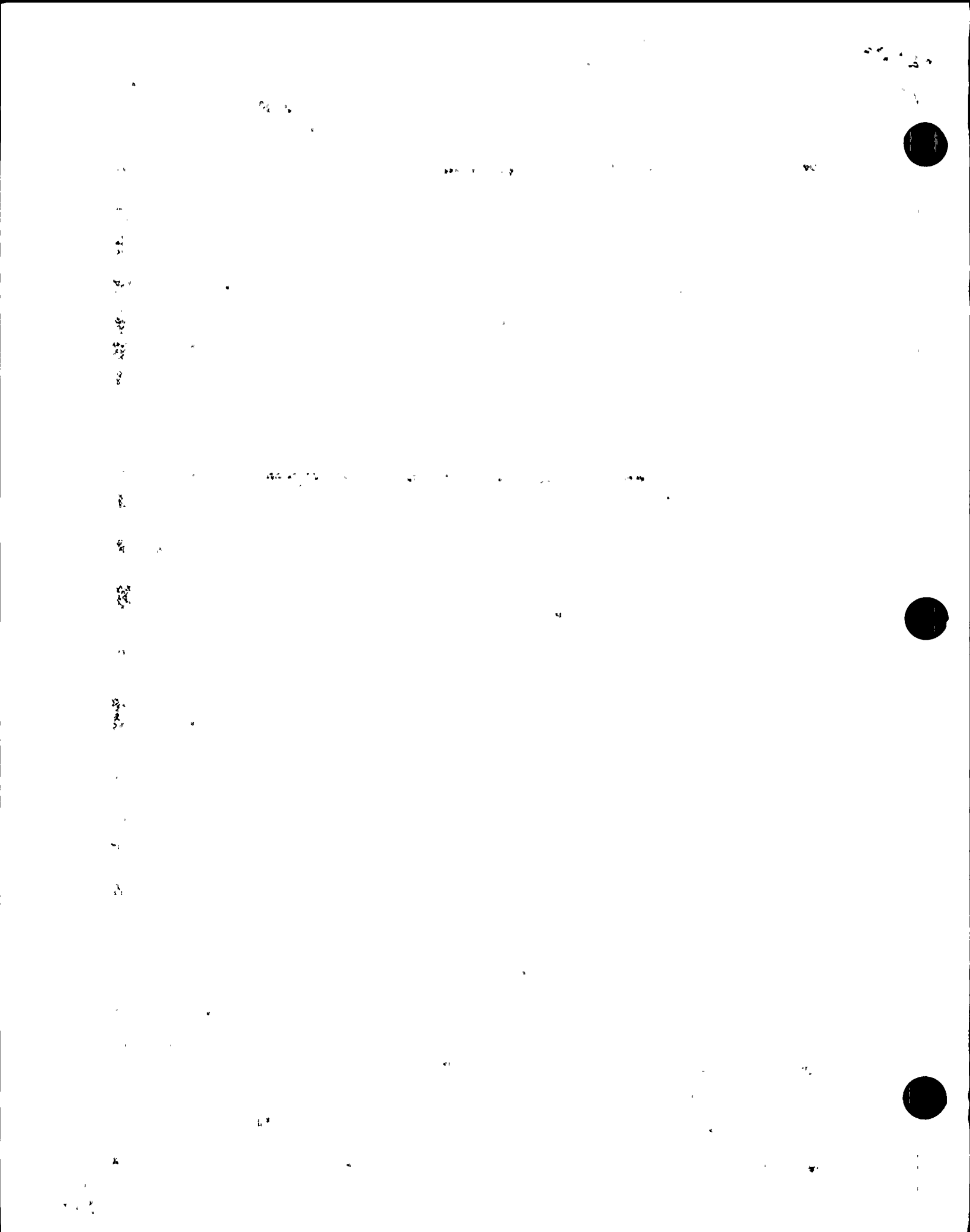
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QA-QC

OCT 11 1974

HOWARD P. FOLEY CO.
Avila Beach, Calif.

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THE HOWARD P. FOLEY COMPANY
SUPPLIER EVALUATION

10-11-74

Name of Shop or Supplier: ITT PHILLIPS DRILL DIVISION
Address: P. O. Box 364, Michigan City, Indiana 46360 Phone: (219) 874-4217
Total Personnel: 200 Total Personnel in Quality Program: 5
Shop Superintendent: W. E. Walters, Plant Manager
Head of Quality Program: J. L. Welkie, Mgr. Quality Control

EVALUATION BY PAST PERFORMANCE:

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

No, however, formal quality control procedures are in use.

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

Random samples are inspected at each stage of manufacture.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

Shop drawings and process sheets are provided with each shop order.

ARE WORKERS QUALIFIED? (State Qualifications)

New employees get on-the-job training under close supervision.

LIST OF MACHINERY AVAILABLE:

Supplier Manufactures standard types of expansion anchors in large volume on a continuous process basis. Machinery includes automatic screw machines, special milling and sawing machines, cold heading & threading equipment and Heat Treating facilities.

TYPE OF WORK PERFORMED:

See attached Catalog.

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HOWARD P. FOLEY COMPANY
SUPPLIER EVALUATION

10-11-74

Phillips
red head -
wedge anchors

ITT PHILLIPS DRILL DIVISION

Morgan City, Indiana 46360 Phone: (219) 874-4217

Total Personnel in Quality Program: 5

Walters, Plant Manager

J. L. Welkie, Mgr. Quality Control

PERFORMANCE:

IS A QUALITY ASSURANCE MANUAL? ADEQUATE?

Formal quality control procedures are in use.

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

Random samples are inspected at each stage of manufacture.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

Shop drawings and process sheets are provided with each shop order.

ARE WORKERS QUALIFIED? (State Qualifications)

New employees get on-the-job training under close supervision.

LIST OF MACHINERY AVAILABLE:

Supplier Manufactures standard types of expansion anchors in large volume on a continuous process basis. Machinery includes automatic screw machines, special milling and sawing machines, cold heading & threading equipment and Heat Treating facilities.

TYPE OF WORK PERFORMED:

See attached Catalog.

CBS.
Phillips Drill Co.
3635 S. San
Pedro St.
Z A, 90011
213) 232243

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100-100000



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March 24, 1975

Power-Strut Division
Van Huffel Tube Corporation
Warren, Ohio 44481

RE: Quality Program

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

La'Moyne E. Addleman
Project Manager

JLG/sc

cc: R. V. Green

Attachment

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Offices:

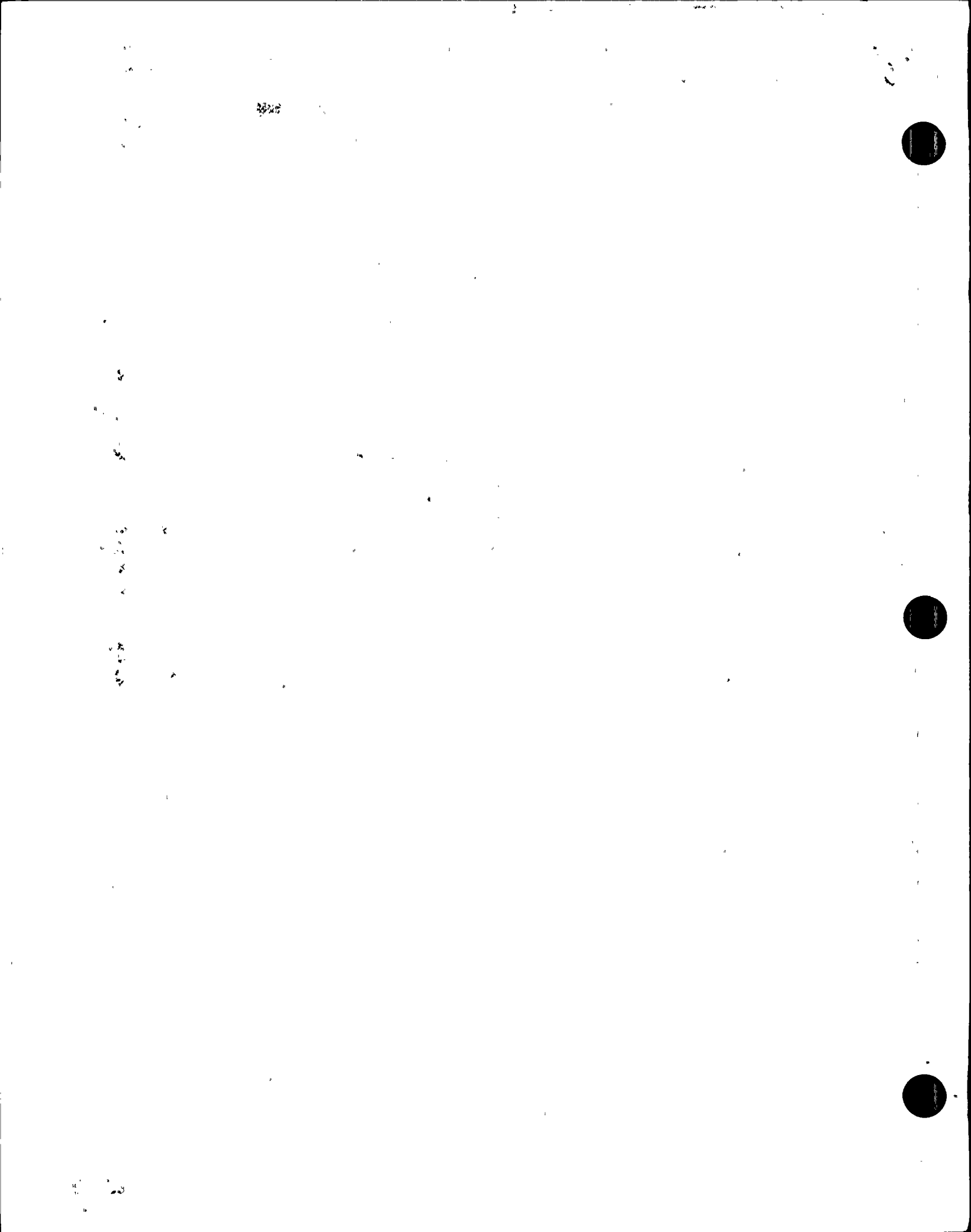
ANTOWN, PENNSYLVANIA
BALTIMORE, MARYLAND
CHICAGO, ILLINOIS
DALLAS, TEXAS
ESSBURG, PENNSYLVANIA
HOUSTON, TEXAS
S ANGELES, CALIFORNIA
MARTINEZ, CALIFORNIA
MEMPHIS, TENNESSEE
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ELPHIA, PENNSYLVANIA
PHOENIX, ARIZONA
BURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
SALT LAKE CITY, UTAH
TAMPA, FLORIDA
TSON, ARIZONA
NGTON, D.C.

Canadian Subsidiary:

EDMONTON, ALBERTA

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POWER-STRUT

VAN HUFFEL TUBE CORPORATION

A Division of Youngstown Sheet and Tube Company

WARREN • OHIO • 44481

CONTINUOUS SLOT CHANNEL, FITTINGS AND ACCESSORIES

Telephone (216) 372-8111

April 4, 1975

Mr. Richard V. Green
THE HOWARD P. FOLEY COMPANY
P. O. Box 327
Avila Beach, California 93424

Subject: Our Telephone Conversation of April 2, 1975

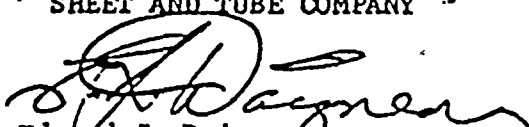
Dear Dick:

Enclosed is your supplier evaluation sheet which I have filled out as complete as possible and copy #174-14 of Power-Strut's Quality Control Manual. Please sign and return the letter inserted in the front of our Quality Control Manual as this is necessary for the maintenance of our files.

I would be interested in hearing from you on any comments or questions regarding our Quality Control Manual. Should you have need of further information regarding Power-Strut, please feel free to write or call.

Very truly yours,

POWER-STRUT
VAN HUFFEL TUBE CORPORATION
A DIVISION OF YOUNGSTOWN
SHEET AND TUBE COMPANY


Edward J. Daigneau
Quality Control Manager

EJD/sak
Enclosure

227

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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: POWER-STRUT DIVISION, VAN HUFFEL TUBE CORPORATION

Address: Dietz Road, Warren, Ohio 44481 Phone: 216/372-8111

Total Personnel: 70 Total Personnel in Quality Program: 2

Shop Superintendent: Carl H. LaLonde

Head of Quality Program: Edward J. Daigneau

EVALUATION BY PAST PERFORMANCE:

Quality Control Audit of January, 1975 indicated good performance.

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

Yes

Yes

QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

Yes

Throughout various stages of manufacture.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

Yes

ARE WORKERS QUALIFIED? (State Qualifications)

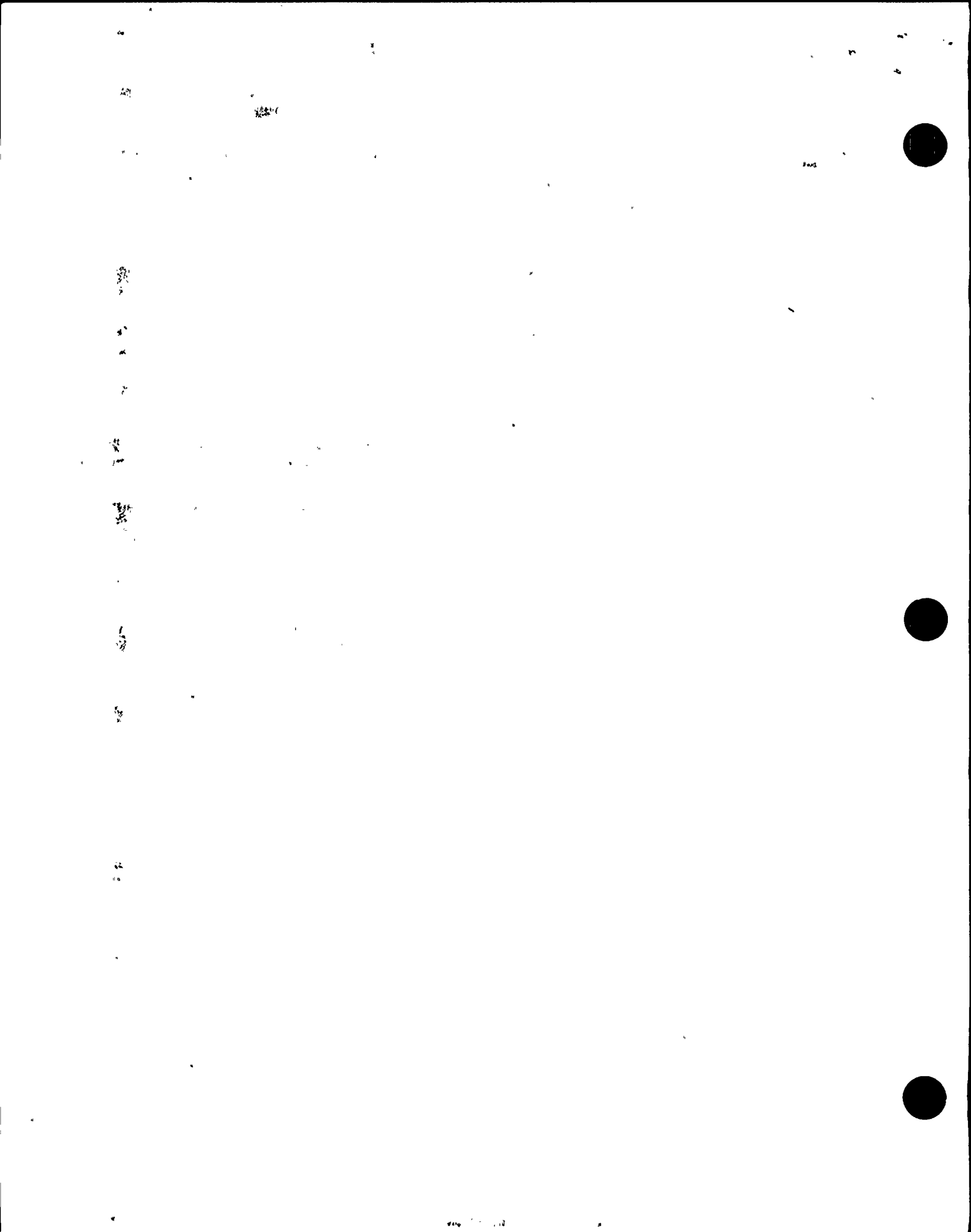
Yes

LIST OF MACHINERY AVAILABLE:

Standard production equipment.

TYPE OF WORK PERFORMED:

Roll forming and punch press fabrication and welding.



WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)

Good conforms to accepted practices and procedures and is maintained within standard commercial tolerances.

IS SHOP CLEAN AND ORDERLY?

Yes

DOES STOCK HAVE TRACEABILITY, CERTS.?

Standard inventory does not have traceability. Traceability with certification is available on project basis as provided for in quality manual.

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?

Van Huffel Tube Corporation and Youngstown Sheet and Tube Company Met Labs have calibrated equipment with records available.

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?

56,000'

Yes

IS THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes ___ No ___

Q.A. Engineer/Inspector Date

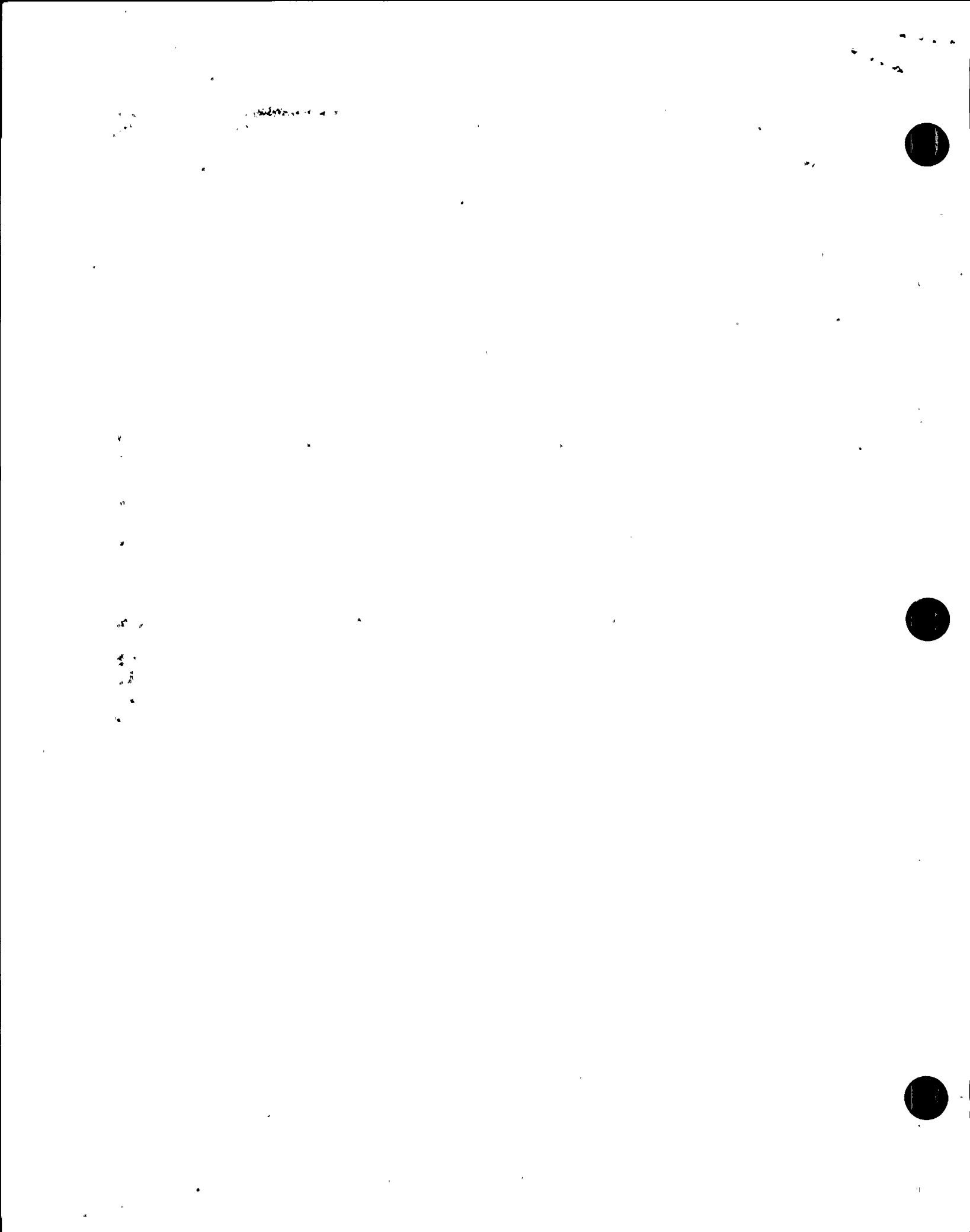
Approved by: *[Signature]* 4/4-5
Q.A. Supervisor /Date

Remarks:

Enclosed is copy No. 174-14 of Power-Strut's Quality Control Manual for your review and comments.

4/3/75

HPF/SE



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- ENGINEERING AND SALES
- REPRESENTATIVE

CalrepcO Inc.

MEMBER: ELECTRIC CLUB OF LOS ANGELES
SOUTHERN CALIFORNIA METER ASSOCIATION
INSTRUMENT SOCIETY OF AMERICA

- P.O. BOX 5787
- FULLERTON, CALIF. 92635
- TELEX 65-7390
- PHONE (213) 694-3618

July 20, 1976

H. P. Foley Company
P. O. Box 327
Avila Beach, California
93242

Attn: Quality Control Dept.
Mr. Ed Bird

Subject: P-W Conduit Dropout Bushings

Gentlemen:

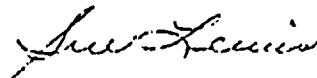
This is to confirm our telecon of 7/19/76 regarding the subject matter.

The old series 500, which was the aluminum conduit dropout bushing, has been superseded by our series 9997 and 9999. Series 9997 is in accordance with ASTM 5052 H32 and is spun aluminum. Series 9999, which is manufactured in accordance with ASTM Spec A-386, is low carbon steel, Hot-Dipped Galvanized After Fabrication.

If you have any further questions, please feel free to contact us.

Very truly yours,

P-W Western, Inc.
CALREPCO INC.



Sue Lewis (Mrs.)

RECEIVED
QUALITY CONTROL

JUL 26 1976

HOWARD P. FOLEY CO.
Avila Beach, Calif.

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TO
Kim

February 26, 1975

CALREPCO
P-W Industries
P. O. Box 1022
Whittier, California 90603

RE: Quality Program

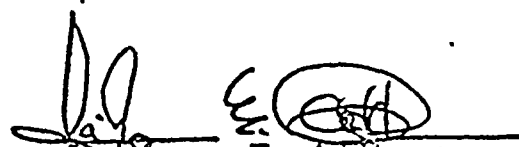
Gentlemen:

We would appreciate any information you could provide us on your Quality program.

Would you please fill out the enclosed information sheet and return to us.

Yours very truly,

THE HOWARD P. FOLEY COMPANY


La Moyne E. Addleman
Project Manager

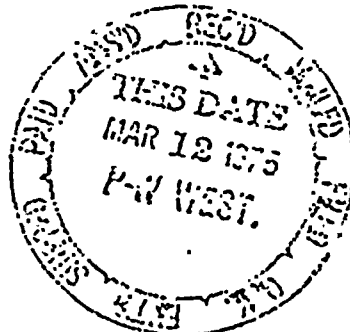
THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
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TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
ALLENTOWN, PENNSYLVANIA
PHILADELPHIA, PENNSYLVANIA
HARRISBURG, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

cc: R. V. Green
cc: J. L. Green

JLG/bk

Attachments



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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

SEE REVERSE SIDE FOR

SUBSIDIARIES

Name of Shop or Supplier: P-W Industries, Inc.

Address: 11500B Roosevelt BLVD, Phila, Pa. 19115 Phone: A/C 215.464.1900

Total Personnel: 100 ± Total Personnel in Quality Program: 3

Shop Superintendent: K. Kruger

Head of Quality Program: T. Finnigan

EVALUATION BY PAST PERFORMANCE: "WE'VE SERVED H.P. FOLEY OFFICES IN MANY LOCATIONS - THE PHILA. OFFICE IS A CONSTANT CUSTOMER."

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?
WE HAVE A VERY DETAILED SYSTEM ORIENTED TO AEC 10 CFR 50 PLUS OUR STANDARD COMMERCIAL QA SYSTEM WHICH DOES NOT REQUIRE FULL DOCUMENTATION & TRACEABILITY. (1) HAS A PROGRAM (DESCRIPTION OF FUNCTIONS) AND A DET'D SHOP PROCEDURE.

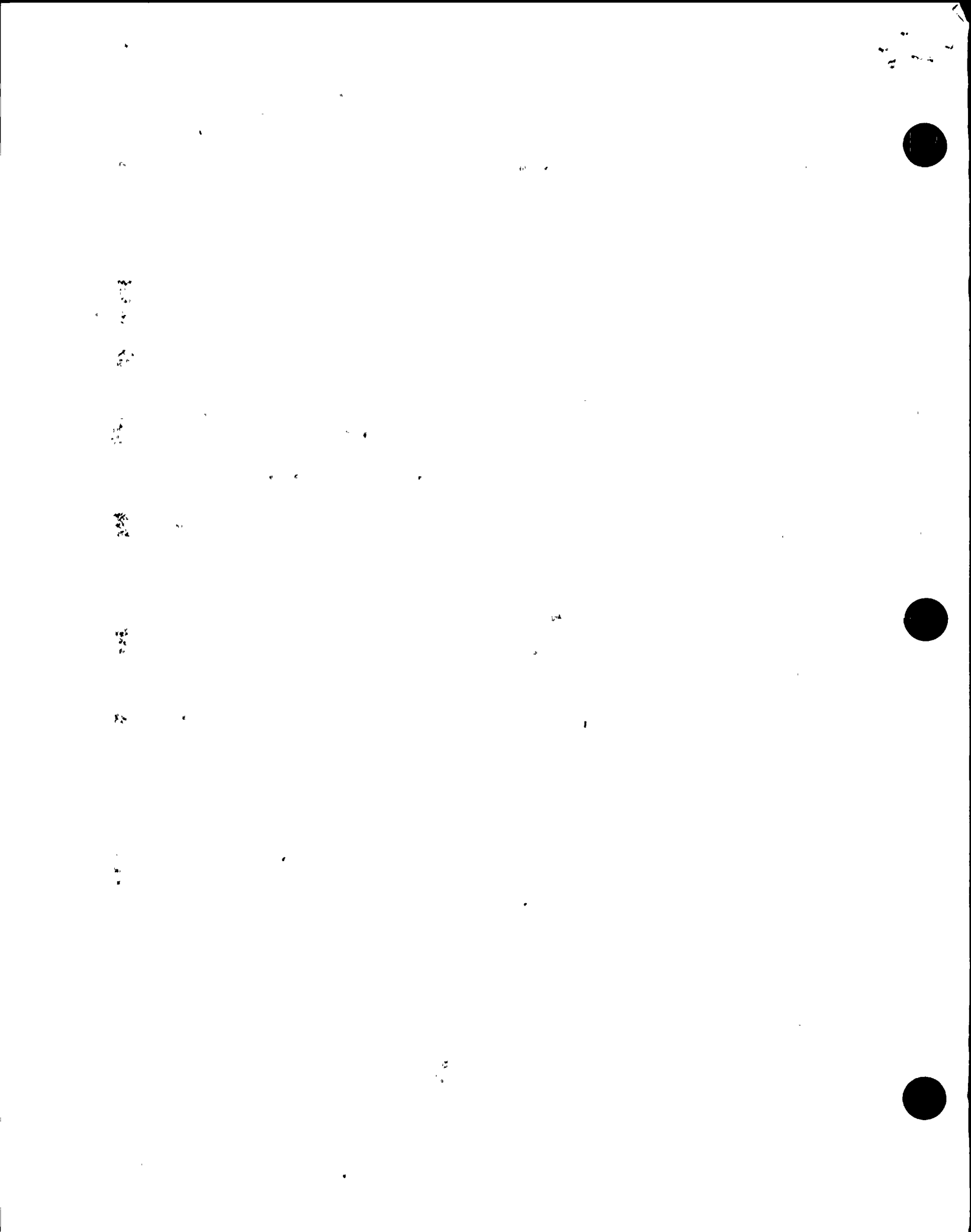
QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK? MANUAL
FOR (1) IN ALL STAGES, PLUS AUDIT PROGRAMS, WELD CERTIFICATION PROGRAM FOR PROCEDURES AND PERSONNEL. OUR MEASURING DEVICES ARE REGULARLY CALIBRATED AND SO DOCUMENTED.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?
ALL WORK IS BASED ON A SYSTEM OF DRAWINGS.

ARE WORKERS QUALIFIED? (State Qualifications)
WELDERS: ASME CN-9 & AWS DA-1-72

LIST OF MACHINERY AVAILABLE:
NO; HOWEVER, WE HAVE 3 PLANTS AND SOME MACH. & DIES ARE TRANSIENT; WE ARE BASIC SHEET METAL SHOP WITH ELECTRICAL POWER CABLE BUS MFG DIVISION

TYPE OF WORK PERFORMED:
MFG & ENG'G OF CABLE TRAY SUPPORTS, "RACEWAY" FOR TUBES, STRUT FRAMING, AND CABLE BUS (ART 365 NEC.)



WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)
EXCELLENT QUALITY

IS SHOP CLEAN AND ORDERLY?
EXCELLENT

DOES STOCK HAVE TRACEABILITY, CERTS.?
AS REQUIRED, WITH FULL SEPARATION OF CONTROLLED RAW MATERIAL, WORK IN PROGRESS, AND HARDWARE, ETC.

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?
SEE ABOVE. THERE IS A DETAILED PROCEDURE & TIME SCHEDULE ON CALIBRATION.

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?
Phila, 80,000 ft.²
MONTEBELLO 30,000 ft.²
ATLANTA 29,000 ft.²

IS THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes No

THE
FOLEY CO?
OR P.W.

T. FINNIGAN / *[Signature]* 4-2-75
Q.A. Engineer/Inspector Date

Approved by: R. W. PEARSON / *[Signature]* 4-2-75
Q.A. Supervisor Date

Remarks:
The remarks herein are ours, the vendor however we WELCOME AN AUDIT. If this is forthcoming please contact TOM FINNIGAN.

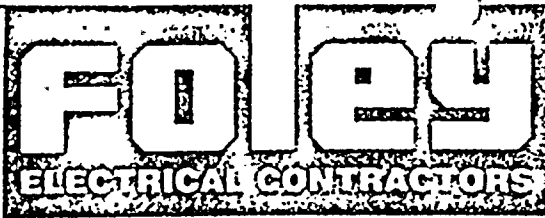
[Signature]

MONTEBELLO ADDRESS: P.W. WESTERN, INC.
623 W. OLYMPIC BLVD.
MONTEBELLO, CA. 90640 MR. KIM KOUNDOURIOTIS, PRES.
ATLANTA " P.W. SOUTHERN, INC.
1160 GREENSBORO DR. S.W.
ATLANTA, GA. 30336 MR. E. P. WAGNER, PRES.

117



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December 4, 1974

P-W Western Inc.
Philadelphia, Pennsylvania
19115

RE: P. G. & E. Contract
22C-8802
Our Job Y-573

Gentlemen:

We would appreciate any information you could give us
on your Quality Program.

Would you please fill out the enclosed information sheet
and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Richard V. Green
Richard V. Green
Manager of Quality

cc: L. E. Addleman

JG/RVG/ss

Enclosure

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
PITTSBURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
PHILADELPHIA, PENNSYLVANIA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

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FOLEY

ELECTRICAL CONTRACTORS

February 26, 1975

CALREPCO
P-W Industries
P. O. Box 1022
Whittier, California 90603

RE: Quality Program

Gentlemen:

We would appreciate any information you could provide us on your Quality program.

Would you please fill out the enclosed information sheet and return to us.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN

La Moyné E. Addleman
Project Manager

cc: R. V. Green
cc: J. L. Green

JLG/bk

Attachments

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF. 93424
805-595-2322

Branches:

- SALT LAKE CITY, UTAH
- BALTIMORE, MARYLAND
- PHOENIX, ARIZONA
- HOUSTON, TEXAS
- MARTINEZ, CALIFORNIA
- PITTSBURGH, PENNSYLVANIA
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- TUCSON, ARIZONA
- NEW ORLEANS, LOUISIANA
- ALLENTOWN, PENNSYLVANIA
- PHILADELPHIA, PENNSYLVANIA
- HARRISBURG, PENNSYLVANIA
- RICHMOND, VIRGINIA
- WASHINGTON, D.C.

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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Support hardware

Name of Shop or Supplier: P-W Industries
Address: Philadelphia, PA 19115 Phone: _____
Total Personnel: _____ Total Personnel in Quality Program: _____
Shop Superintendent: _____
Head of Quality Program: _____

EVALUATION BY PAST PERFORMANCE:

*Letter for Quality
12-4-74
2nd letter 2-25-75*

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

ARE WORKERS QUALIFIED? (State Qualifications)

LIST OF MACHINERY AVAILABLE:

TYPE OF WORK PERFORMED:

4472



COPY

70

Howard P. Foley

P. O. Box 117
Avila Beach, CA 93424

MAR 17 1976

RECEIVED
Avila Beach, California

[Handwritten signature]

March 15, 1976

The Howard P. Foley Company
P. O. Box 327
Avila Beach, CA 93424

Attention: L. Addlemann
Project Manager

Diablo Canyon Project
Specification 8802
Your Letter Dated March 2, 1976
6th Addendum to Qualified
Supplier Log

Gentlemen:

Your 6th addendum is not approved. This addendum is for qualifying Raychem Wire and Cable Division. H. P. Foley Company does not furnish Class I wire. All Class I wire is furnished by P G and E.

I believe that you were trying to qualify Raychem Energy Systems Group for insulating putty. This putty is specified on the design which means that it is approved for use.

If you have any questions contact the Resident Electrical Engineer.

RECEIVED
Avila Beach, Calif
MAR 17 1976

Sincerely,

(SIGNED) C. K. MAXFIELD
C. K. Maxfield
Project Superintendent

HOWARD P. FOLEY CO.

23a

63

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Small cluster of marks or characters in the middle left.

Small cluster of marks or characters at the bottom left.



FOLEY

ELECTRICAL CONTRACTORS

March 2, 1976

Pacific Gas and Electric Company
Mr. C. K. Maxfield
Project Superintendent
P. O. Box 117
Avila Beach, California 93424

ATTENTION: P. J. Nelson

RE: P. G. & E. Contract
22G-8802-2
Our Job Y-573

6th Addenda to Qualified
Supplier Log

Gentlemen:

We are enclosing a copy of The Howard P. Foley Company
Supplier Evaluation form completed by Raychem
Corporation for your consideration in adding Raychem
Corporation to our Qualified Supplier Log.

We are also attaching a copy of Raychem's Quality
Assurance Manual to assist you in your decision.

Sincerely,
ORIGINAL SIGNED BY:
LAMOYNE E. ADDLEMAN
LaMoynes E. Addleman
Project Manager

EB/sc

cc: V. Tennyson

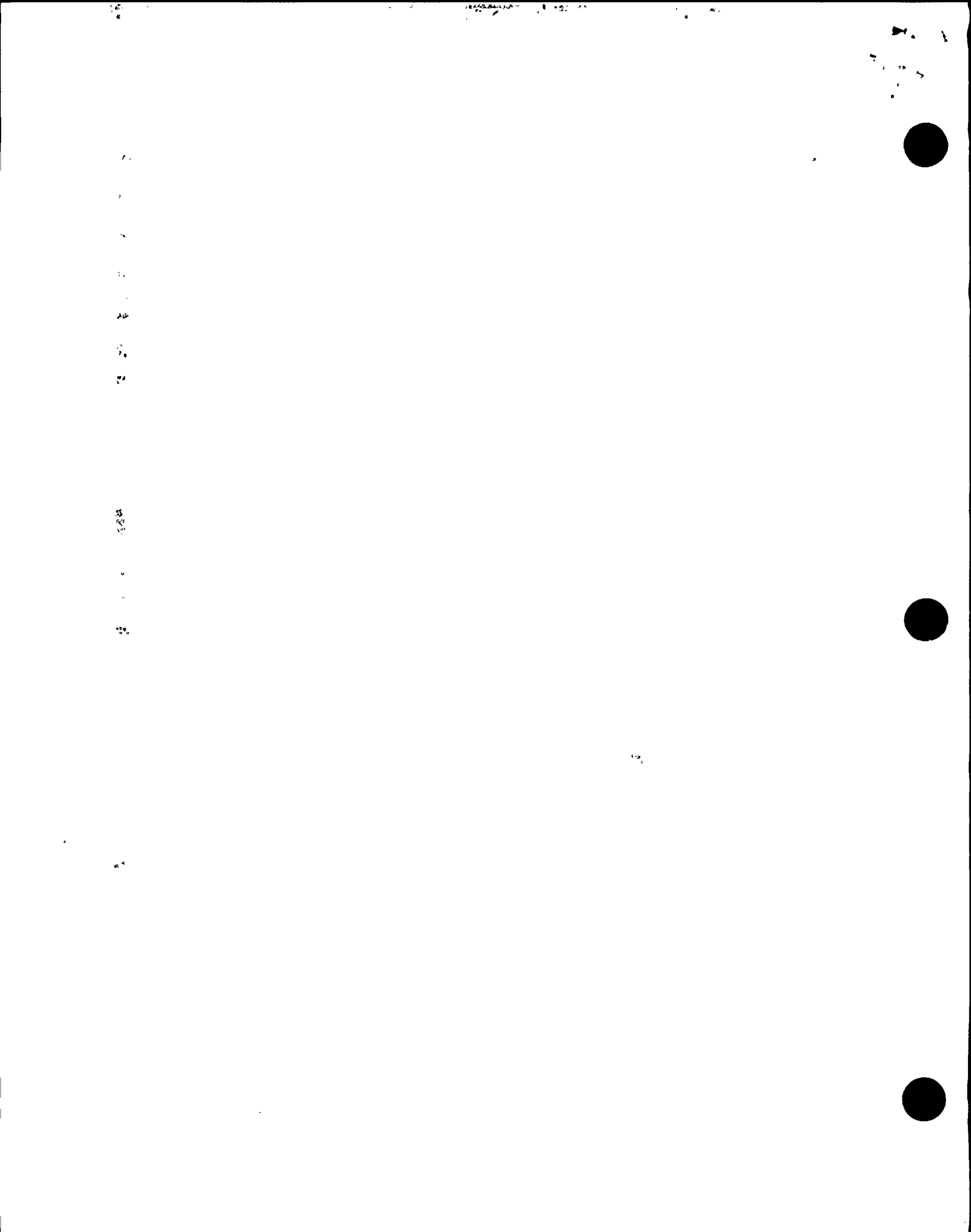
THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:

SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
PITTSBURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
PONTIAC, PENNSYLVANIA
DELPHIA, PENNSYLVANIA
RISBURG, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

(233) 64



THE HOWARD P. FOLEY COMPANY
SUPPLIER EVALUATION

Name of Shop or Supplier: RAYCHEM CORPORATION-WIRE & CABLE DIVISION
Address: 300 CONSTITUTION DRIVE, MENLO PARK, CA 94025 Phone: 329-4052
Total Personnel: 510 Total Personnel in Quality Program: 52
Shop Superintendent: W. ROSSE HESLOP-VICE PRESIDENT AND GENERAL MANAGER
Head of Quality Program: CHARLES F. FISCHER II

EVALUATION BY PAST PERFORMANCE:

N/A

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

YES, IN COMPLIANCE WITH:

1. AEC 10 CFR PART 50 APPENDIX B
2. ANSI N45.2 (1971) (AS A PARTIAL LISTING)
3. RDT F2-4T

QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

YES,

- | | |
|--------------------------|----------------------|
| 1. RECEIVING INSPECTION | 4. FINAL INSPECTION |
| 2. IN PROCESS INSPECTION | 5. SOURCE INSPECTION |
| 3. END ITEM INSPECTION | |

WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

YES - QUALITY ASSURANCE PROCEDURES
QUALITY CONTROL PROCEDURES
QUALITY CONTROL TEST METHODS

ARE WORKERS QUALIFIED? (State Qualifications)

YES - ONGOING ON THE JOB TRAINING WITH PERIODIC UPDATES
AND ONGOING AUDIT SYSTEM.

LIST OF MACHINERY AVAILABLE:

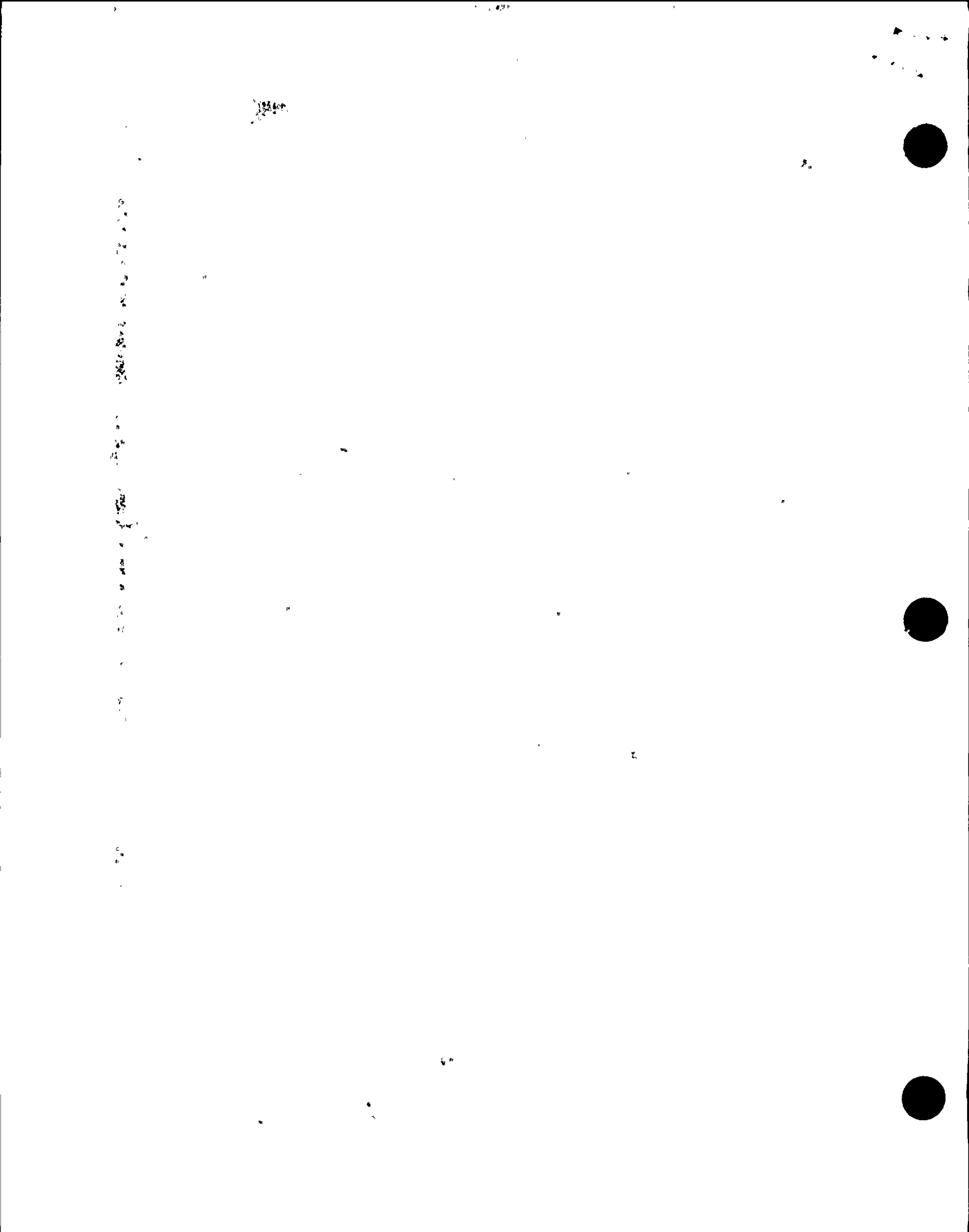
N/A

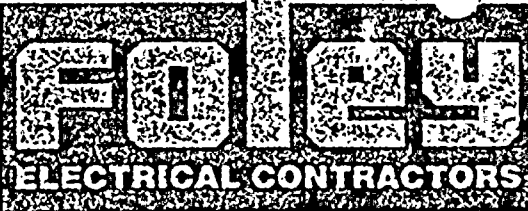
TYPE OF WORK PERFORMED:

MANUFACTURE OF WIRE AND CABLE

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February 18, 1976

Raychem Corporation
300 Constitution Drive
Menlo Park, California 94025

RE: Quality Program

Gentlemen:

Enclosed find the Supplier Evaluation form which needs your signature and return to us.

Also, we are requesting another copy of your current Wire and Cable Division Quality Assurance Manual.

Sincerely,

La Moyne E. Addleman
Project Manager

EB/sc

cc: V. Tennyson

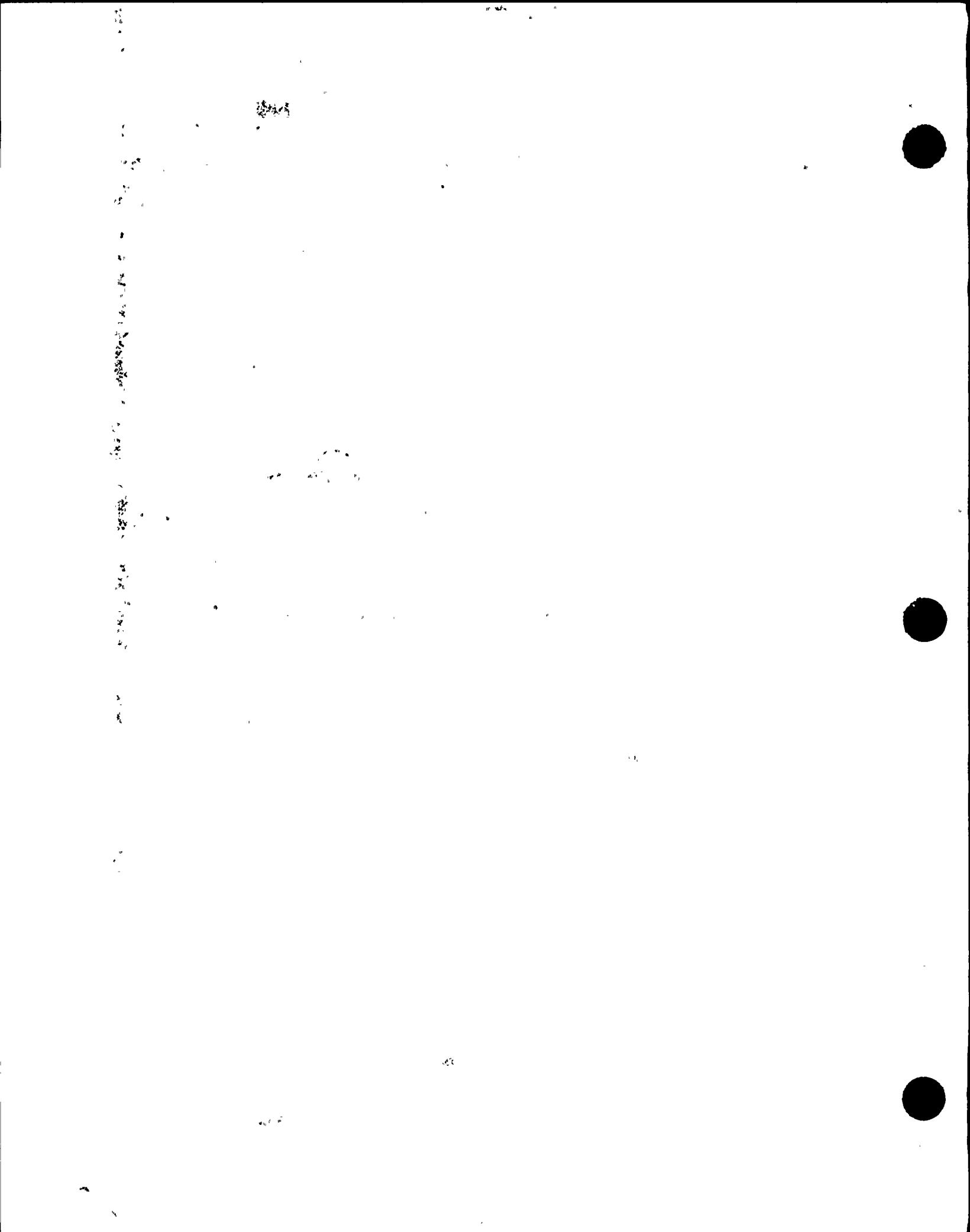
THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327
AVILA BEACH, CALIF. 93424
805-595-2322

Offices:
LENTOWN, PENNSYLVANIA
BALTIMORE, MARYLAND
CHICAGO, ILLINOIS
DALLAS, TEXAS
FRISBURG, PENNSYLVANIA
HOUSTON, TEXAS
LOS ANGELES, CALIFORNIA
MARTINEZ, CALIFORNIA
MEMPHIS, TENNESSEE
NEW ORLEANS, LOUISIANA
PHILADELPHIA, PENNSYLVANIA
PHOENIX, ARIZONA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
SALT LAKE CITY, UTAH
TAMPA, FLORIDA
TUCSON, ARIZONA
WASHINGTON, D.C.

Canadian Subsidiary:
EDMONTON, ALBERTA

253

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73

FOLEY

ELECTRICAL CONTRACTORS

January 23, 1976

Raychem Corporation
Wire and Cable Division
300 Constitution Drive
Menlo Park, CA 94035

RE: Quality Program

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheets and return.

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

- Branches:
- SALT LAKE CITY, UTAH
 - BALTIMORE, MARYLAND
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 - HOUSTON, TEXAS
 - MARTINEZ, CALIFORNIA
 - PITTSBURGH, PENNSYLVANIA
 - TAMPA, FLORIDA
 - TUCSON, ARIZONA
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 - ALLENTOWN, PENNSYLVANIA
 - PHILADELPHIA, PENNSYLVANIA
 - HARRISBURG, PENNSYLVANIA
 - RICHMOND, VIRGINIA
 - WASHINGTON, D.C.

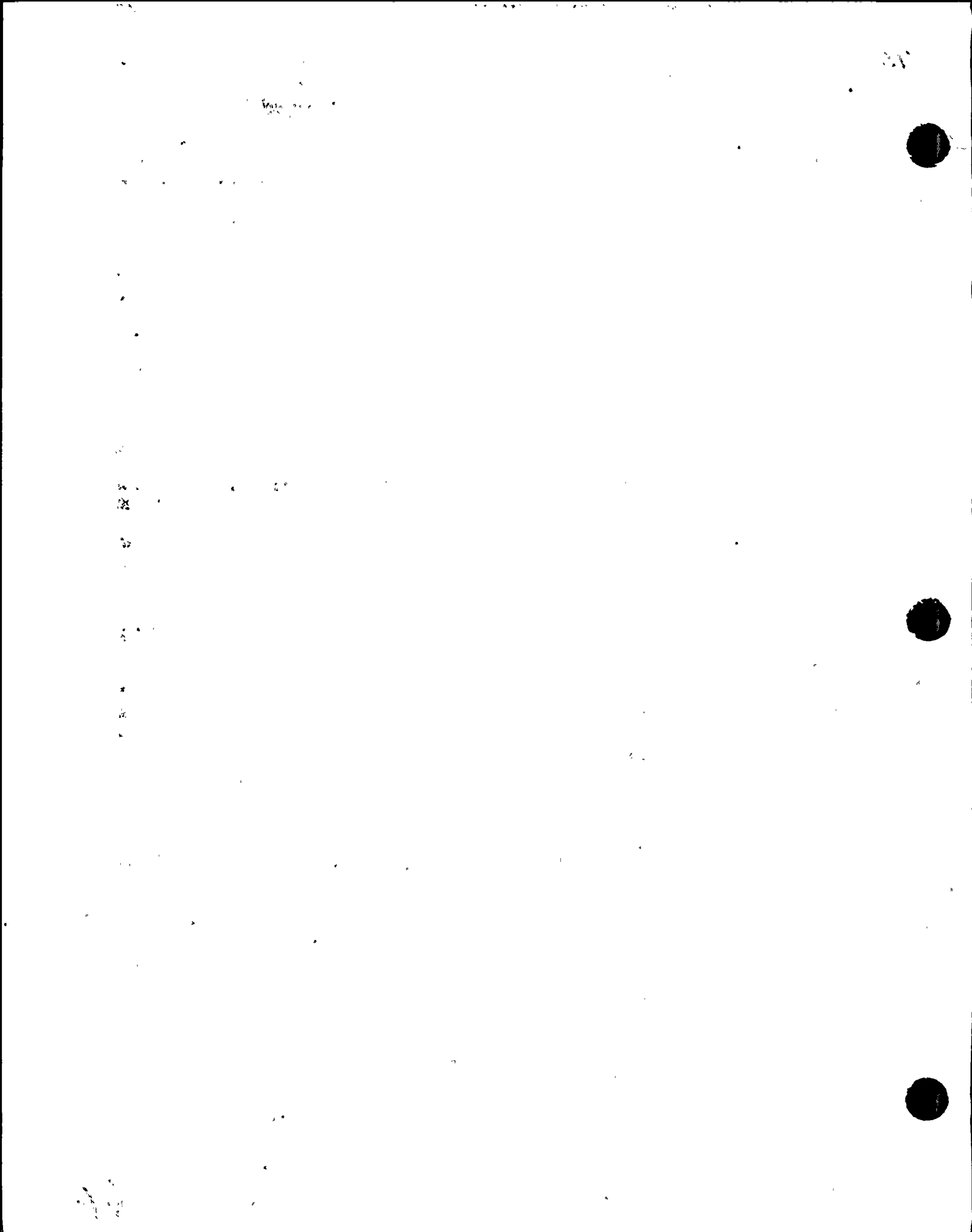
Sincerely,

ORIGINAL SIGNED BY
La Moyne E. Addleman
Project Manager

EB/ac

Attachment

235
66



Jim's copy

74



June 11, 1974

Superior Strut & Hanger Company
845 Embarcadero
Oakland, California

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman
cc: W. E. Brown

JG/DJD/sc

Enclosure

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
MILA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
BURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
PITTSBURGH, PENNSYLVANIA
PHILADELPHIA, PENNSYLVANIA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

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FOLEY

ELECTRICAL CONTRACTORS

August 23, 1974

Superior Strut & Hanger Company
845 Embarcadero
Oakland, California 94600

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

On 6/10/74 we wrote you regarding your Quality Program and we have not yet received an answer. In order for us to continue using your products, we must have this information.

Please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

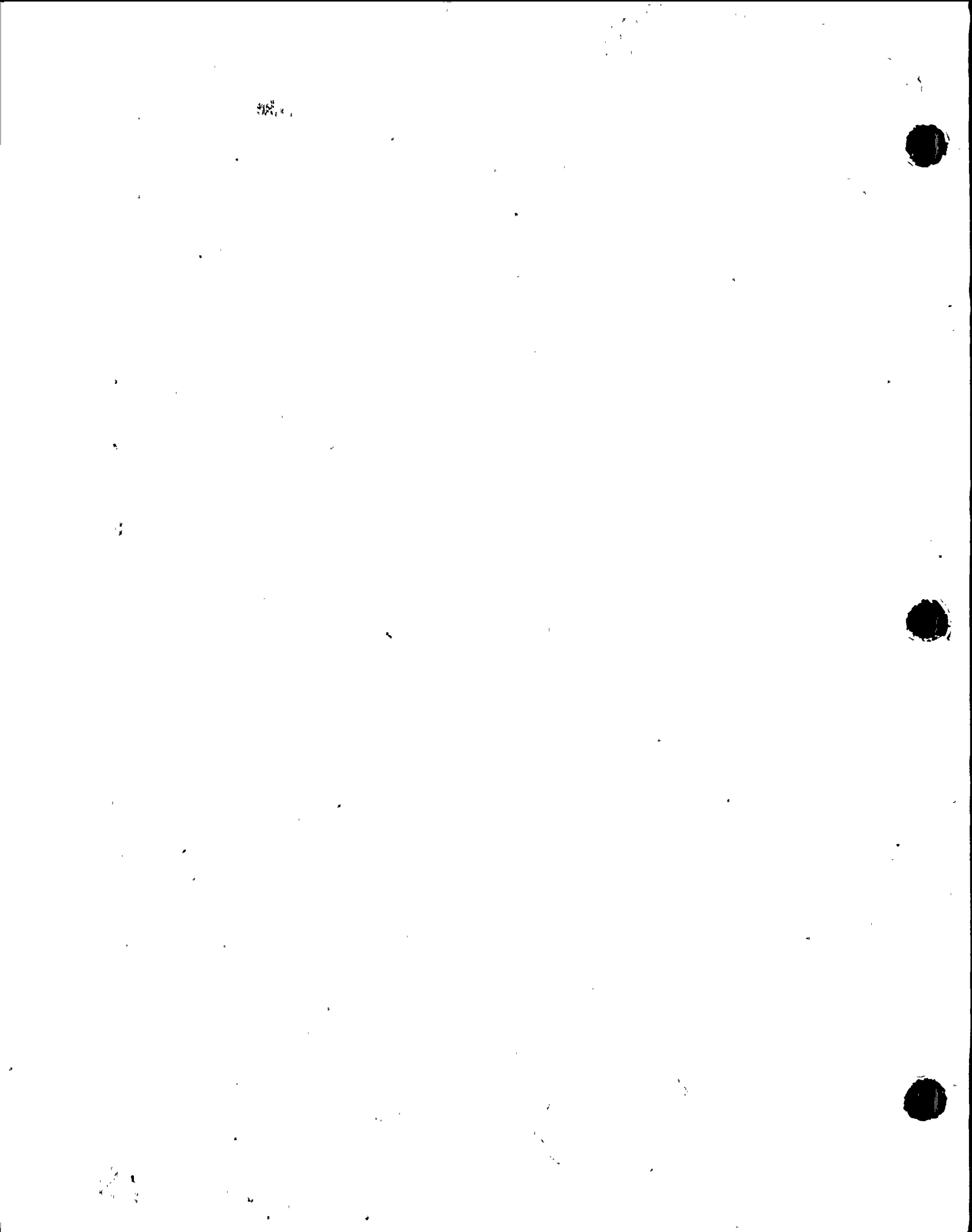
Encl.

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
PITTSBURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
NEW ORLEANS, LOUISIANA
LENTOWN, PENNSYLVANIA
ADELPHI, PENNSYLVANIA
BRIDGEBURG, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

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76

8-30-74

Superior

RECEIVED SPRUT & HANGER CO.
Avila Beach, Calif. 93424 Embarcadero Oakland, Ca 94606

Telephone (415) 839-9690

AUG 30 1974

HOWARD P. FOLEY CO.

August 27, 1974

The Howard P. Foley Company
P.O. Box 327
Avila Beach, Calif. 93424

RE: P.G & E. Contract
22c-8802-2
Your job Y-573
Quality Program

Gentlemen:

In regards to your request of August 23, 1974, you will find enclosed the information dealing with our Quality Program. Please forgive us for the delay in answering.

Regards,

John Biggane
John Biggane
President

JB:je

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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: Superior Strut & Hanger
Address: 845 Embarcadero Oakland, Ca. 94600 Phone: 839-9690
Total Personnel: 60 Total Personnel in Quality Program: 2
Shop Superintendent: Greg Livermore
Head of Quality Program: Fremont Livermore

EVALUATION BY PAST PERFORMANCE:

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

Yes

Yes

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

Yes

4 Stages:

- Material
- Punch Press
- Forming
- Assembly

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

Yes

ARE WORKERS QUALIFIED? (State Qualifications)

Yes

Certified Welders
Most workers trained by us over 17 years of operation.

LIST OF MACHINERY AVAILABLE:

See Attached

TYPE OF WORK PERFORMED:

Roll forming
Punch press
Plating.

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MACHINES

POINT OF OPERATION

Carried Forward

BY VENDING MACHINES:

MACHINES	HOURS	"N"	"DA"	"MP"	POINT OF OPERATION							
					"FO"	"W"	"A"	"X"	"G"	"B"		
Stamp press #2	38	1			1	6	6	1	4.5	4.5	G	1
Stamp press #5	40	1			1	6	6	✓				
Stamp press #1	40	1			1	6	6	✓				
Stamp press #6	40	1			1	6	6	1	4.5	4.5		1

SOUTH HALL-FORMING AREA:

Roll former	NOC	1			1	1	1					
Cut off press	40	1			1	6	6	✓				
Threader	NOC	1	1		1	1	1					
Forming roll	NOC	1	1		1	1	1					
Roll shear --	44	1	1		1	3	3	✓				

Abras. cut off saw.

NEXT BAY:

Stamp press #7	38	1	1		1	6	6	1	4.5	4.5	G	1
Stamp press #9	40	1	1		1	6	6	✓				
Shear	44	1			1	3	3	1	1	1		
Feeder	NOC	1			1	1	1					
Air compressor	NOC	1		1	1	1	1					
Stamp press #10	38	1			1	6	6	1	4.5	4.5	G	1
Stamp press #4	40	1			1	6	6	✓				

Totals

17 6 2 17 67 20

GROUP I

Automatic Feed
Guarded semi-automatic
or Mechanical Feed
Minimum 2cm Travel
Cam Enclosure
Hand Fed

GROUP II

E - Gate Guard
F - Sweep Guard
G - Two Handed Device
H - Pull Out Protective Device
I - Fixed Guard Across Front
and Along Sides
J - Photo Electric Relay

TYPES OF PRESS GUARDS INCLUDED IN EACH GROUP

GROUP III

Un-guarded

GROUP IV

K - Two handed Device
L - Gate Guard
M - Minimum 2cm Travel

GROUP V

N - Automatic Ejection
O - Fixed barrier Across
Front and Sides

GROUP VI

Un-guarded

1 1 2

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MACHINES

UNIT OF OPERATION

		MACHINES						UNIT OF OPERATION			
		"N"	"EW"	"AP"	"TO"	"W"	"A"	"X"	"G"	"R"	
Drill press	HOC	1	1	1	1	1	1				
Thresher	HOC	1	1	1	1	1	1				
Drill press	HOC	1			1	1	1				
Magnetic surface grinder	HOC	1	1	1	1	1	1				
<u>OPPOSITE SIDE:</u>											
Stamp press #3	38	1	1		1	6	6	1	4.5	4.5	G 1
Stamp press #8	38	1	1		1	6	6	1	4.5	4.5	G 1
Stamp press #12	38	1			1	6	6	1	4.5	4.5	G 1
H.P. shear	45	0			1	3	3	✓			
<u>PLATING AREA:</u>											
Plating agitator	HOC	1	1	1	1	1	1				
Rectifier	HOC	2	2	2	2	1	2				
Welders	HOC	2	2	2	2	1	2				
<u>CONTINUATION OF PRESS AREA</u>											
Horiz. metal band saw	HOC	1			1	1	1				
Welder	HOC	1	1	1	1	1	1				
Stamp press #11	38	1			1	6	6	1	4.5	4.5	G 1
Stamp press #13	40	1			1	6	6	✓			
Bench stamp press	38	1			1	6	6	1	4.5	4.5	G 1
Bench stamp press	40	1			1	6	6	1	.5	.5	1
Totals		19	11	9	20		57			23	

GROUP I

GROUP II

GROUP III

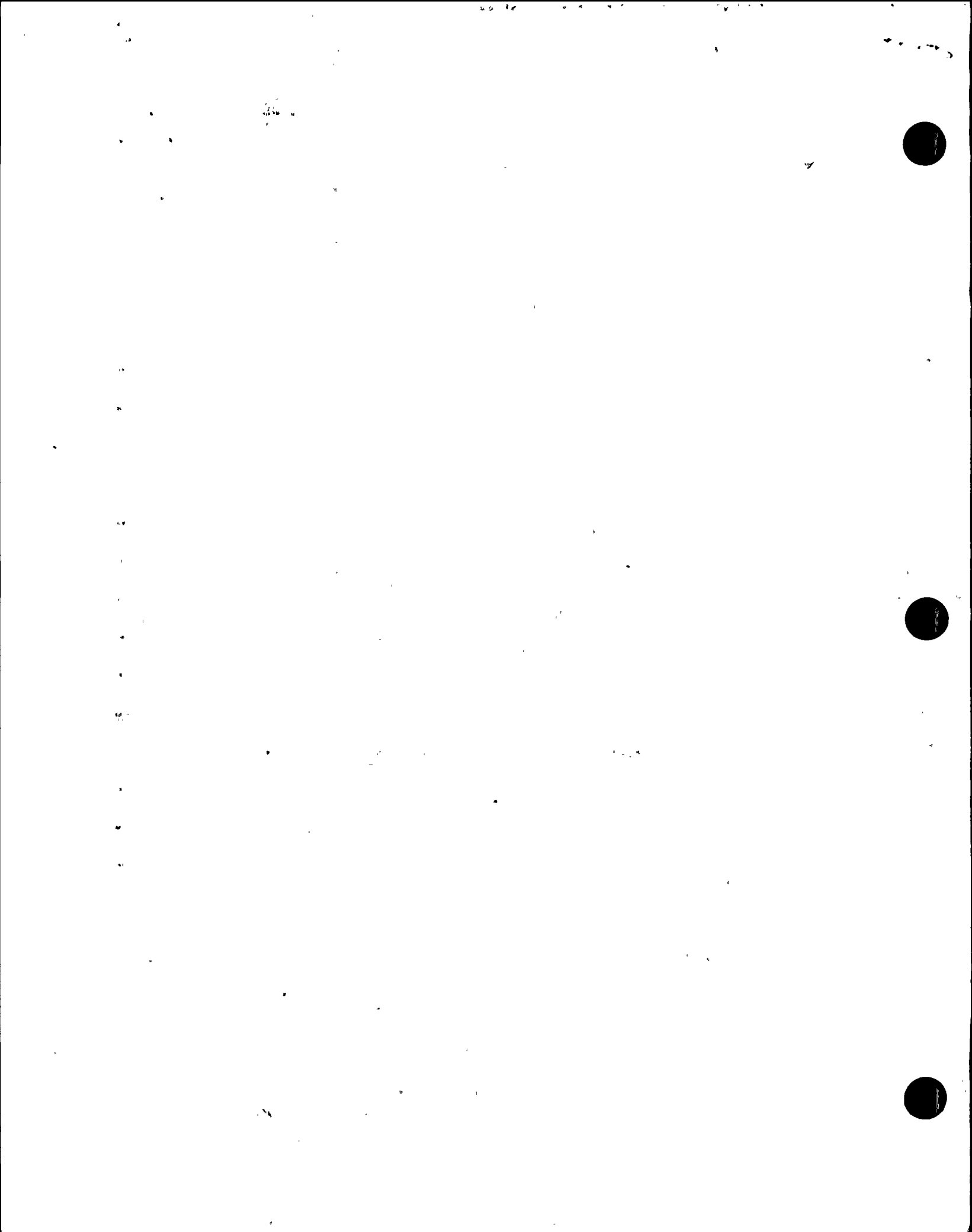
GROUP IV

GROUP V

GROUP VI

Types of Press Guards Included in Each Group

- E - Gate Guard
- F - Sweep Guard
- G - Two Handed Device
- H - Pull Out Protective Device
- I - Fixed Guard Access Front and Along Sides
- J - Photo Electric Relay
- K - Two Handed Device
- L - Gate Guard
- M - Minimum Pan Travel
- N - Automatic Ejection
- O - Fixed Barrier Across Front and Sides



MACHINES

POINT OF OPERATION

Central Forklift

ALONG WALL:

Air compressor

Welder

C.H. heater

NOC 2 1 2 2 1 2

NOC 1 1 1 1 1 1

NOC 1 1 1 1 1 1

4 3 4 4 4

Totals

40 20 15 41 128

43

TYPES OF PRESS GUARDS INCLUDED IN EACH GROUP

GROUP I

- Automatic Feed
- Guarded Semi-automatic
- or Mechanical Feed
- Minimum Ram Travel
- Ram Enclosure
- (and Feet)

GROUP II

- E - Gate Guard
- F - Sweep Guard
- G - Two Handed Device
- H - Pull Out Protective Device
- I - Fixed Guard Across Front and Along Sides
- J - Photo Electric Relay

GROUP III

Un-guarded

GROUP IV

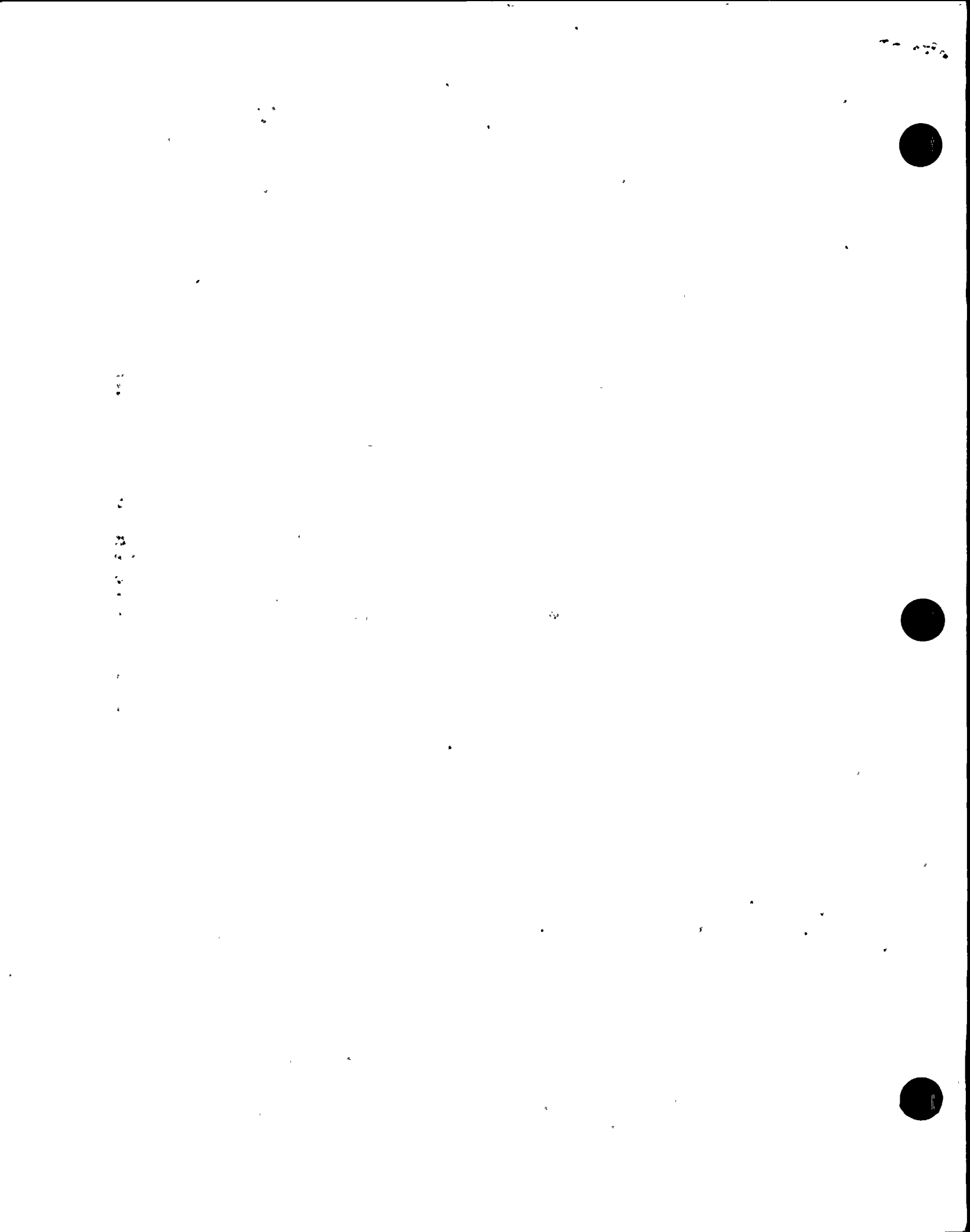
- K - Two Handed Device
- L - Gate Guard
- M - Minimum Ram Travel

GROUP V

- N - Automatic Ejection
- O - Fixed Barrier Across Front and Sides

GROUP VI

Un-guarded



77

T&B/ Thomas & Betts

July 20, 1976

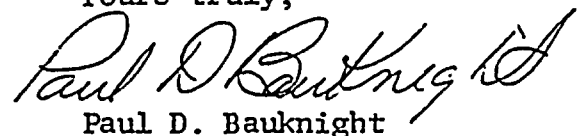
H P Foley Co.
Diablo Canyon Nuclear Power Plant
P. O. Box 327
Avila Beach, Calif. 93424

Att: Mr. Edward Bird

Dear Mr. Bird,

This is to certify that the items referenced in your request, bushing series 225 thru 230, 513 thru 518 and our insulator sleeves Cat. No.'s 422 thru 434 are made from nylon type 66 glass filled per ASTM md 789. Material contains no PVC.

Yours truly,



Paul D. Bauknight
Asst. Manager - Quality Control

FDB/cc

RECEIVED
QUALITY CONTROL

JUL 26 1976

HOWARD P. FOLEY CO.
Avila Beach, Calif.



232





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78

QA File

Copies to

CC VT
CC PF
CC (EO)
CC JK
CC LS

QC
QA
Pach

PACIFIC GAS AND ELECTRIC COMPANY

245 MARKET STREET • SAN FRANCISCO, CALIFORNIA 94106 • (415) 781-4211 • TWX 910-372-6587

P. O. Box 117
Avila Beach, CA 93424

May 3, 1976

The Howard P. Foley Company
P. O. Box 327
Avila Beach, CA 93424

Attention: L. Addleman
Project Manager

Diablo Canyon Project
Specification 8802
Your Letter Dated 4/12/76
Approval of Material
Gth. Addendum

Gentlemen:

The T & B Clamping Device, TC342A, is approved only as an aid to wire dressing and bundling in equipment. It is not to be used as a support device.

If you have any questions please contact P. J. Nelson.

Sincerely,

C. K. Maxfield
Project Superintendent

RECEIVED
QA-QC

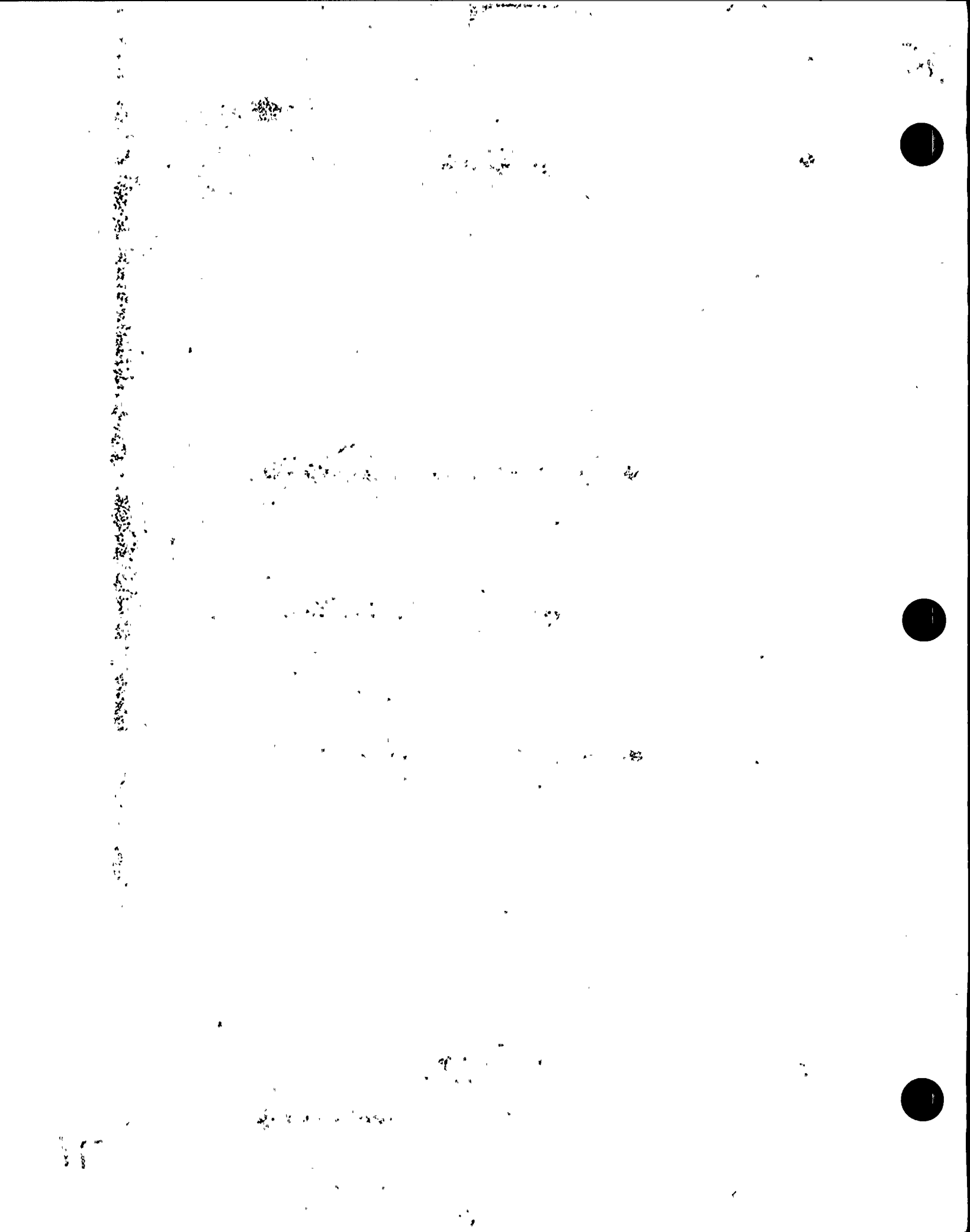
MAY 06 1976

HOWARD P. FOLEY CO.
Avila Beach, Calif.

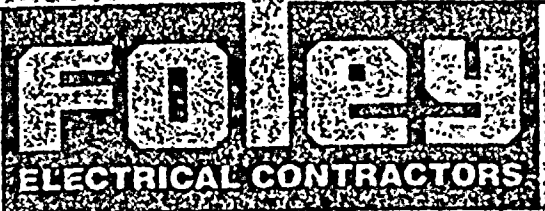
Paul
5-6-1976
[Signature]

240

71
AFCO



JIM'S



June 17, 1974

Thomas & Betts Company
36 Butler Street
Elizabeth, New Jersey

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: W. E. Brown
cc: L. E. Addleman

JG/DJD/sc

Enclosure

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

- Branches:
- SALT LAKE CITY, UTAH
- BALTIMORE, MARYLAND
- PHOENIX, ARIZONA
- HOUSTON, TEXAS
- MARTINEZ, CALIFORNIA
- PITTSBURGH, PENNSYLVANIA
- TAMPA, FLORIDA
- TUCSON, ARIZONA
- NEW ORLEANS, LOUISIANA
- ALLENTOWN, PENNSYLVANIA
- PHILADELPHIA, PENNSYLVANIA
- HARRISBURG, PENNSYLVANIA
- RICHMOND, VIRGINIA
- WASHINGTON, D.C.

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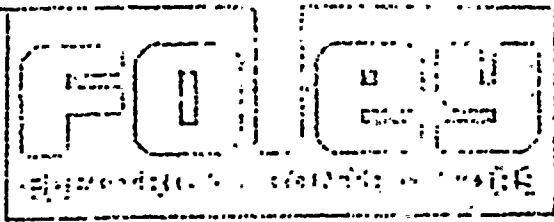
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August 26, 1974

Thomas & Betts Company
36 Butler Street
Elizabeth, New Jersey

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

On 6/13/74 we wrote you regarding your Quality Program and we have not yet received an answer. In order for us to continue using your products, we must have this information.

Please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan

Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

Encl.

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
LA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
PITTSBURGH, PENNSYLVANIA
TAMPA, FLORIDA
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DJD - 9.9.74
JG -
HG -
RR -
GH - *229-9-74*



THE THOMAS & BETTS CO. • ELIZABETH, NEW JERSEY 07207
(201) 354-4321 • TELEX 13-8238 • Division of Thomas & Betts Corporation

September 5, 1974

RECEIVED
Avila Beach, Calif.

The Howard P. Foley Company
P.O. Box 327
Avila Beach, Calif. 93424

SEP 9 1974

Subject: "Information Sheet" Request

HOWARD P. FOLEY CO.

Att: Mr. Daniel J. Dugan
Manager of Quality

Gentlemen:

Our apologies for the delay in answering your request. Evidently the "original" request was lost and/or misrouted in our mail system.

Enclosed therefore is the answered info sheet, we are also enclosing for your information our T&B Catalog #1000.5 plus literature and further documentary information pertaining to Thomas & Betts quality program.

If there are any questions, further information required, etc. please contact

R. J. Redling
R. J. Redling
Manager - Quality Control

RJR:md
Attach.

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice.

2. The second part of the document outlines the procedures for handling discrepancies between the recorded amounts and the actual cash received. It states that any such discrepancy must be investigated immediately and reported to the appropriate authority.

3. The third part of the document provides a detailed breakdown of the various types of transactions that are subject to these rules. This includes sales of goods, services rendered, and other forms of income.

4. The fourth part of the document discusses the consequences of failing to comply with these regulations. It notes that non-compliance can result in significant penalties, including fines and imprisonment.

5. The fifth part of the document provides a list of the various documents and records that must be maintained for each transaction. This includes receipts, invoices, and bank statements.

6. The sixth part of the document discusses the importance of keeping these records for a sufficient period of time. It states that records must be kept for at least five years from the date of the transaction.

7. The seventh part of the document provides a summary of the key points discussed in the document. It emphasizes that compliance with these regulations is essential for the proper functioning of the financial system.

8. The eighth part of the document provides a list of the various authorities responsible for enforcing these regulations. This includes the Internal Revenue Service, the Department of Justice, and the Department of the Treasury.

9. The ninth part of the document provides a list of the various penalties that can be imposed for non-compliance. These include fines, imprisonment, and the seizure of assets.

10. The tenth part of the document provides a list of the various documents and records that must be maintained for each transaction. This includes receipts, invoices, and bank statements.



THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: THE THOMAS & BETTS CO.

Address: 36 BUTLER ST., ELIZ., N.J. 07207 Phone: 201-354-4321

Total Personnel: 1495 Total Personnel in Quality Program: 46

PLANT MANAGER
~~Shop Supervisor~~: DAVID HUNIHAN

Head of Quality Program: R. J. REDLING

EVALUATION BY PAST PERFORMANCE:

EXCELLENT

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

YES

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

YES - AT ALL LEVELS INCLUDING INCOMING, PROCESSING,
FINAL AND SPECIAL PROCESSES.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES? YES

ALL INSPECTION PERSONNEL MUST PASS APPROVED VALIDATED TEST PRIOR TO
"TRIAL" ACCEPTANCE INTO PROGRAM. A 6-MONTH PROBATIONARY PERIOD
UNDER EVALUATION SUPERVISION IS ENFORCED.

ARE WORKERS QUALIFIED? (State Qualifications) YES

LIST OF MACHINERY AVAILABLE: MODERN FACILITIES AVAILABLE REQUIRED
FOR PROCESSING OF ALL "METAL" TYPE PRODUCTS INCLUDING STAMPING,
FORMING EQUIPMENT, SLIDE MACHINES LATHES, ETC. TAPPING AND
THREADING EQUIPMENT, GRIDLEYS, KAUFMANS, ETC., MODERN FINISHING
AND PLATING EQUIPMENT.

TYPE OF WORK PERFORMED: IN ADDITION TO FORMING, STAMPING ;
MACHINING AND FINISHING OF ELECTRICAL FITTINGS (TERMINATIONS)
ASSEMBLY AND PACKAGING EQUIPMENT IS UTILIZED TO PROCESS THE
E&B PRODUCTS.



RECEIVED
Avila Beach, Calif.



SEP 6 1974

HOWARD P. FOLEY CO.

August 26, 1974

Unistrut Corporation
Los Angeles Inc.
14600 S. Marquadt Avenue
Santa Fe Springs, Calif.

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

AUG 27 1974

Quality Program

Gentlemen:

On 6/13/74 we wrote you regarding your Quality Program and we have not yet received an answer. In order for us to continue using your products, we must have this information.

Please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

Encl.

RECEIVED
QA-QC

SEP 6 1974

HOWARD P. FOLEY CO.
Avila Beach, Calif.

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
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RICHMOND, VIRGINIA
WASHINGTON, D.C.

Jim's

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FOLEY

ELECTRICAL CONTRACTORS

June 13, 1974

Unistrut Corporation
Los Angeles Inc.
14600 S. Margardt Avenue
Santa Fe Springs, California

RE: P.G.&E. Contract
22C-8802-2
Our Job X-373

Quality Program

Gentlemen:

We would appreciate any literature you could provide us
on your Quality Program.

Would you please fill out the enclosed information sheet
and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: W. E. Brown
cc: L. E. Addleman

JG/DJD/ec

Enclosure

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

- Branches:
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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

of Shop or Supplier: UNISTRUT CORPORATION
 Address: 4118 S. WAYNE ROAD - WAYNE, MICHIGAN 48184 Phone: (313) 721-4040
 Total Personnel: 225 cte (Hourly) Total Personnel in Quality Program: 7
 Shop Superintendent: LEO TALASKA
 Head of Quality Program: CHARLES L. COOK MANAGER- QUALITY CONTROL

EVALUATION BY PAST PERFORMANCE:

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?
 YES. IN COMPLIANCE WITH MIL-I-45208-A.

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

YES. FROM RECEIPT OF RAW MATERIALS, THROUGH ALL STAGES OF MANUFACTURE AND UNTIL SHIPPED AS A FINISHED PRODUCT.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

YES. TO ROUTINGS AND PRINTS.

ARE WORKERS QUALIFIED? (State Qualifications)

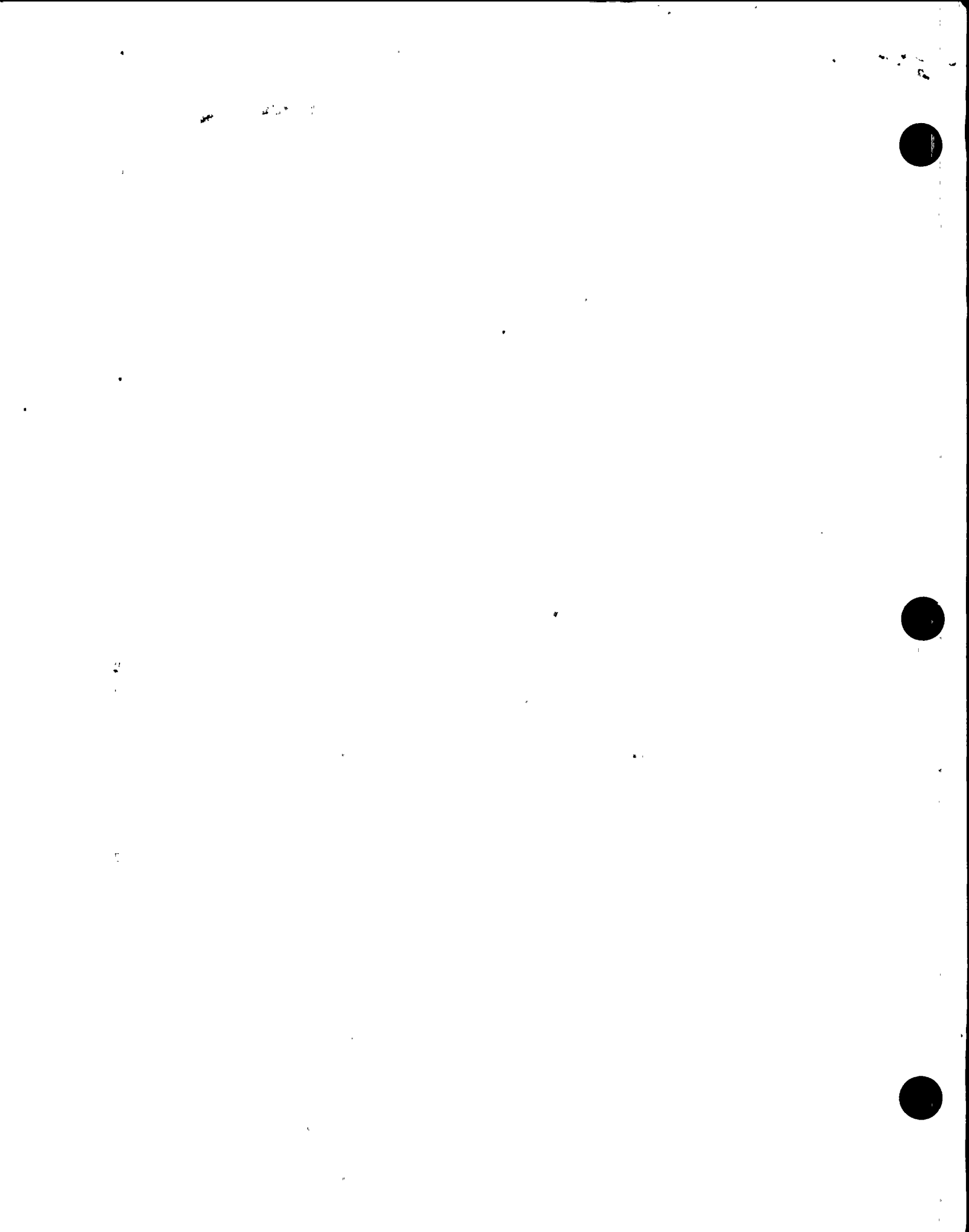
YES. THROUGH QUALIFYING TRAINING PERIODS, APPRENTICE PROGRAMS, CERTIFICATION PROCEDURES, ETC.

LIST OF MACHINERY AVAILABLE:

SLITTER, ROLLING MILLS, PUNCH PRESSES, PRESS BRAKES, PHOSPHATING AND PAINT SYSTEMS, SPOT WELDERS, ARGON WELDERS AND ALL OTHER NECESSARY EQUIPMENT RELATING TO THE MANY UNISTRUT PRODUCTS.

TYPE OF WORK PERFORMED:

ALL OPERATIONS NECESSARY AND RELATED TO THE MANUFACTURE OF UNISTRUT PRODUCTS.





May 12, 1975

Varaflex Corporation
Rome
New York

RE: QUALITY PROGRAM

Varflex Silflex Sleeving
Varflex Type H.A. Glass
Braid
Varglass Silicone Tying
Cord Type 46

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN
La'Moyne E. Addleman
Project Manager

RVG/sc

cc: J. Green

Attachments

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THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
MILA BEACH, CALIF.
93424
805-585-2222

Branches:
SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
BURGH, PENNSYLVANIA
TAMPA, FLORIDA
TUCSON, ARIZONA
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PITTSBURGH, PENNSYLVANIA
PHILADELPHIA, PENNSYLVANIA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

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THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: Varflex Corporation
Address: 512 West Court Street, Rome, New York 13440 Phone: (315) 336-4400
Total Personnel: 115 Total Personnel in Quality Program: 17
Shop Superintendent: Harry W. Rood, Robert B. Rosenburgh and Warren E. Williams by departments
Head of Quality Program: William L. Griffin

EVALUATION BY PAST PERFORMANCE:

We are a quality house manufacturing electrical insulating sleeving, but any evaluation would have to come from our customers.

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

Yes

We consider it adequate.

QUALITY INSPECTION PROVIDED? Yes AT WHAT STAGE OF WORK? In process and final inspection.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES? Yes

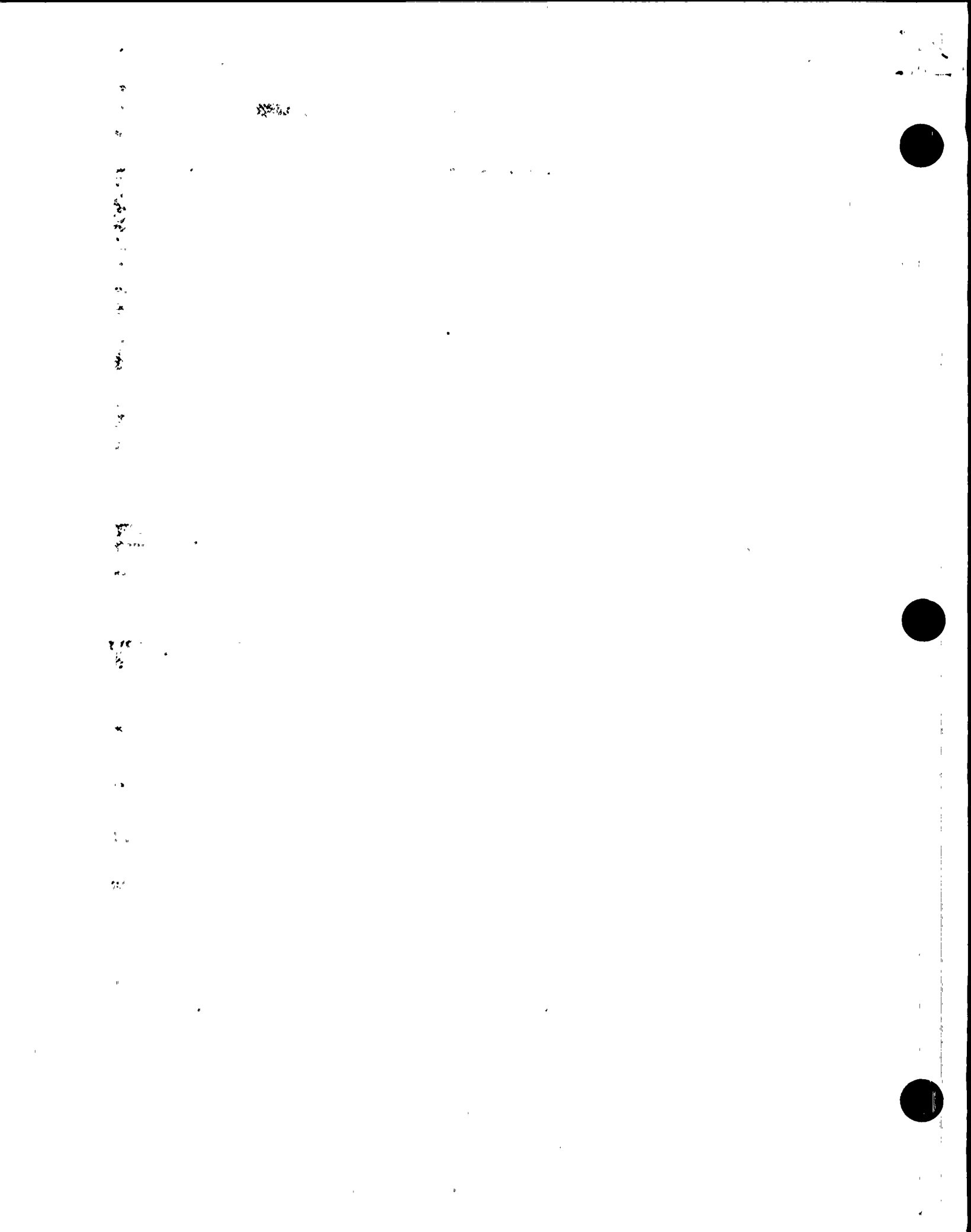
ARE WORKERS QUALIFIED? (State Qualifications) Yes - Trained on the job for our specific product.

LIST OF MACHINERY AVAILABLE:

Twist Frame, Braiding Machines, Dipping Tanks, Horizontal and Vertical Ovens, Yarn Winding Equipment, Coiling and Cutting Machines, Heat Treating Equipment, Complete Research Department and Complete Machine Shop including lathes, grinders, etc.

TYPE OF WORK PERFORMED:

Manufacturer of Electrical Insulating Sleeving of many types, including Varflex Silflex Sleeving, Varglas Litewall Sleeving Type H.A. and Varglas Silicone Tying Cord Type 46 as referenced in your covering letter.



WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)

We use the finest of materials, not the cheapest, and our machines are kept in mint condition. Therefore, we feel that our work in progress is of top quality, as is the material which we ship.

IS SHOP CLEAN AND ORDERLY?

Our housekeeping is beyond reproach because we believe that a good product cannot be manufactured in a dirty shop, even though we use some messy raw materials, such as varnishes and resins. We also must keep our shop clean and orderly because of the ever present danger of fire.

DOES STOCK HAVE TRACEABILITY, CERTS.?

Raw stock - yes
Finished stock - generally no because we carry little or no finished stock.

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?

Yes Yes

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?

83,765 Yes, and to OSHA orders, as well.

IS THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes X No

Dorothy G. Griffin 7-17-75

~~XXXXXXXXXXXXXXXXXXXX~~ Date
Dorothy G. Griffin
Corporate Secretary

Approved by: ~~XXXXXXXXXXXXXXXXXXXX~~ Date

Remarks:

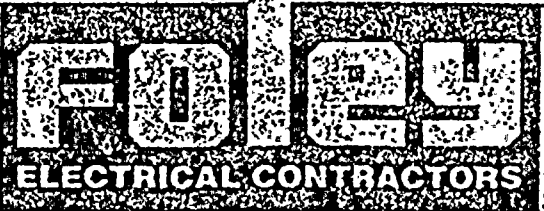
We question whether this particular form was intended for us, since it would appear that the questions should have been answered by an observer or inspector. Nevertheless, we have replied to each question in what we feel is a truthful manner.

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Jim's



June 13, 1974

Western Tube & Conduit Corporation
2730 E. 37th Street
Los Angeles, California

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573
Quality Program

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return?

Yours very truly,
THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: W. E. Brown
cc: L. E. Addleman

JG/DJD/sc

Enclosure

THE
HOWARD P. FOLEY
COMPANY
P.O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

- Branches:
- SALT LAKE CITY, UTAH
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- WASHINGTON, D.C.

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JG

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August 2, 1977

Western Tube and Conduit Corp.
P. O. Box 113
Los Angeles, California 90053

RE: P.O. 68, Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide us
on your Quality Program.

Would you please fill out the enclosed information sheet
and return?

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Manager of Quality

cc: L. E. Addleman

JG/DJD/sc

Attachment

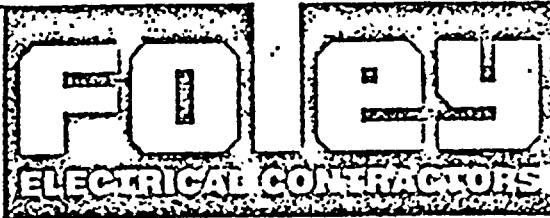
THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:

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- WASHINGTON, D.C.

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March 13, 1975

The Howard P. Foley Company
P. O. Box 327
Avila Beach, California 93424

Attention: L. E. Addleman
Project Manager

RE: Source Audit Western Tube and
Conduit

Gentlemen:

We have received three discrepant shipments of Western E.M.T. in the last five months.

On November 19, 1974 a shipment of various sizes of E.M.T. that was pitted and corroded (Ref: HPF/IR #8802-67).

Again on February 11, 1975 we received a shipment of Western 3/4 inch E.M.T. 1100 feet of which was marked Youngstown "Buckeye" and Rhome conduit, neither of which are qualified vendors (Ref: HPF/IR #8802-71). In that same shipment we received 2000 feet of 2 inch E.M.T. that was visually acceptable on the ends, but when cut for use in the field, it was found that the seams on the inner side of the tubes had rough edges which makes it unsuitable for installing wire (Ref: HPF/IR #8802-84).

I suggest that a source audit of the manufacturer is in order so that we can check their Quality of workmanship in process.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

R. V. Green
(Acting) Quality Manager

JG/RVG/sc

cc: J. Green

THE

HOWARD P. FOLEY

COMPANY

P. O. BOX 327,

AVILA BEACH, CALIF.

93424

805-595-2322

Branches:

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HOUSTON, TEXAS

MARTINEZ, CALIFORNIA

PITTSBURGH, PENNSYLVANIA

TAMPA, FLORIDA

TUCSON, ARIZONA

NEW ORLEANS, LOUISIANA

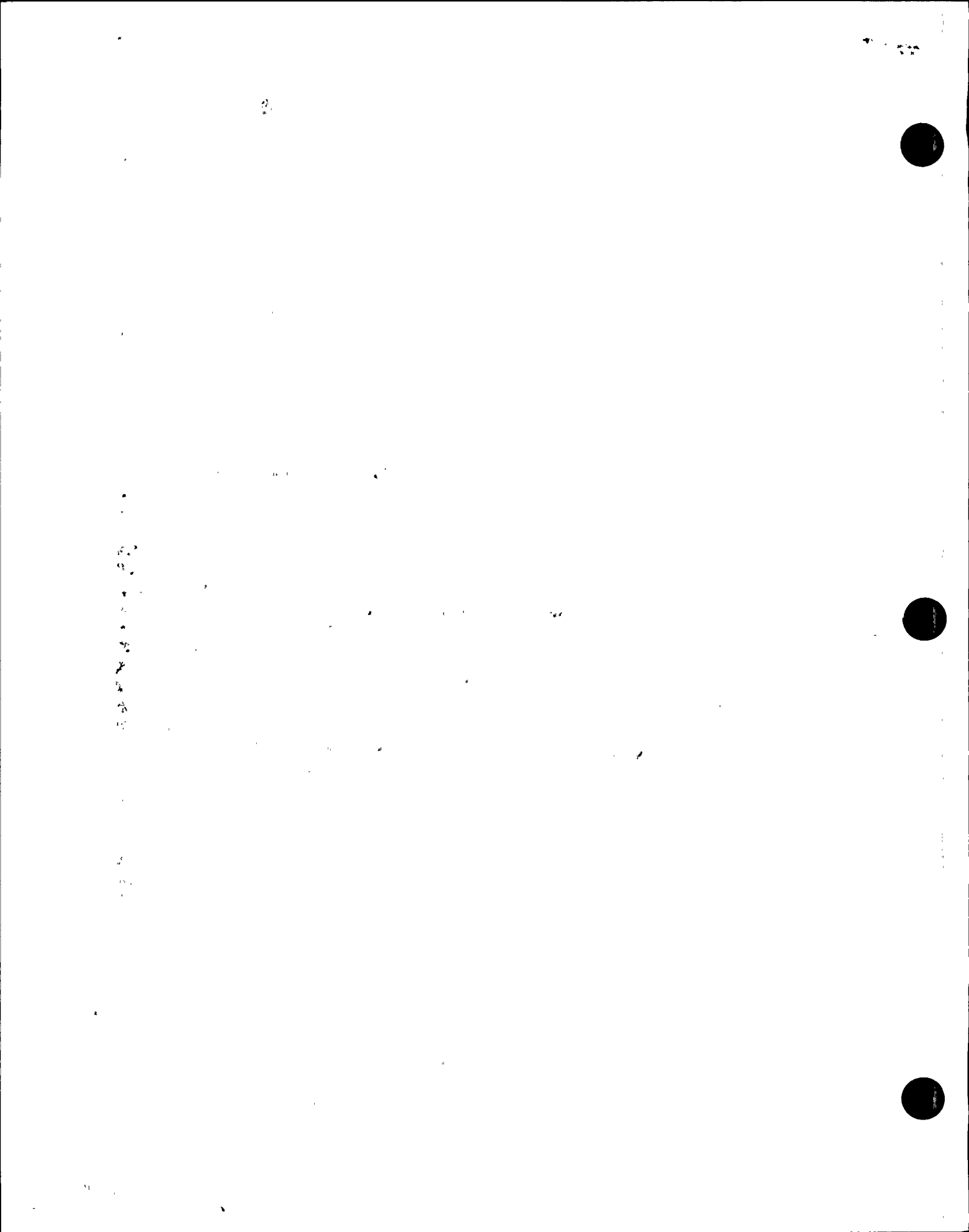
ALLENTOWN, PENNSYLVANIA

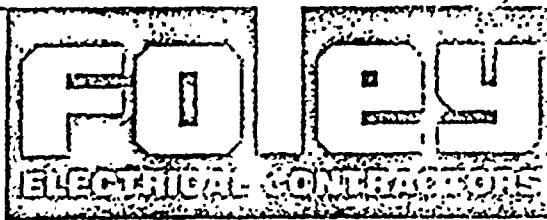
PHILADELPHIA, PENNSYLVANIA

HARRISBURG, PENNSYLVANIA

RICHMOND, VIRGINIA

WASHINGTON, D.C.





November 19, 1974

The Howard P. Foley Company
P. O. Box 327
Avila Beach, CA 93424

Attention: L. E. Addleman
Project Manager

RE: Discrepant EMT

Gentlemen:

On November 19, 1974 a shipment of various sizes of EMT was received by the Howard P. Foley Company at Diablo Canyon. The manufacture was Western and the Vendor is Amfac of Santa Maria.

The Quality Inspector assigned to receive and do receiptal inspection on this material found it not to conform to Pacific Gas and Electric Company 8807 contract specification. Inspector Paul Davidson noticed that the ends of the EMT contained fresh paint. Further investigation of this fresh paint revealed pitting and corrosion being covered by it. At the time of receiptal Mr. Bernard Normand, Manager of Amfac, Santa Maria store was at the Diablo Canyon plant site investigating corroded material. This new material was brought to the attention of Foley's Project Manager, Mr. L. E. Addleman, Pacific Gas and Electric Company's Mr. Don Day and Mr. Clyde Needham along with Mr. Normand. A piece of this EMT was taken and a cross section was taken of it. A large amount of pitting and corrosion was found coming through the galvanized coating along the entire length of the cross section. A photograph was taken of the cross section and given to the Foley Project Manager. The rest of the material that was being received was put on a hold status and tagged so it would not be put into use.

Pacific Gas and Electric Company 8807 contract General Conditions Section 21.1 requires material to be suitable for work, best of its kind and subject to approval.

THE
HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
605-595-2322

Branches:
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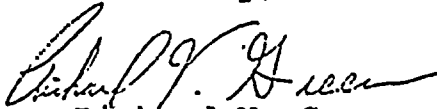
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The Howard P. Foley Company
Page 2
November 19, 1974

Quality Assurance Section 3.13 requires Contractor's quality assurance program to provide adequate procedures to assure that all necessary measures are taken to prevent damage or deterioration of product, during handling, shipping, receiving, storage, installation and maintenance.

Sincerely,



Richard V. Green
Acting Quality Manager

RVG/sc

FOLEY

THE
HOWARD P. FOLEY
COMPANY

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February 20, 1975

Amfac Electric Supply Company
901 South Blosser Road
Santa Maria, California 93454

Attention: Mr. Bernard Normand

RE: Discrepant Shipments of
E.M.T.

Gentlemen:

On November 19, 1974 a shipment of Western E.M.T. was delivered to The Howard P. Foley Company. The material received was pitted and rusted. The material was returned and replaced by your Company.

On February 12, 1975 we received another shipment of E.M.T. from you with a Western Packing slip. Mixed in with the load were 10 bundles of 3/4" E.M.T., 5 bundles marked Rome and 5 bundles marked Youngtown Buckeye. We have no clearance for either of these brands, and we are returning them to you for replacement.

We expect all future shipments to us to be exactly as required and specified as on our purchase orders. The material must be in good condition if we are to continue using your products.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN
La'Moyne E. Addleman
Project Manager

cc: R. V. Green
cc: J. Green

JG/sc

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-525-2322

Offices:

- YOUNGTOWN, PENNSYLVANIA
- BALTIMORE, MARYLAND
- CHICAGO, ILLINOIS
- DALLAS, TEXAS
- LEWISBURG, PENNSYLVANIA
- HOUSTON, TEXAS
- S ANGELES, CALIFORNIA
- MARTINEZ, CALIFORNIA
- MEMPHIS, TENNESSEE
- NEW ORLEANS, LOUISIANA
- PHILADELPHIA, PENNSYLVANIA
- PHOENIX, ARIZONA
- PITTSBURGH, PENNSYLVANIA
- RICHMOND, VIRGINIA
- SALT LAKE CITY, UTAH
- TAMPA, FLORIDA
- TUCSON, ARIZONA
- WASHINGTON, D.C.

Canadian Subsidiary:

EDMONTON, ALBERTA

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2007



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90
Amfac

ELECTRICAL SUPPLY CO.

90 A
801 S. BLOSSER ROAD - P.O. BOX 1087
SANTA MARIA, CALIFORNIA 93454
TELEPHONE (805) 925-9585

March 4, 1975

Howard P. Foley Company
P.O. Box 327
Avila Beach, California 93424

Attention: Mr. La Moyne E. Addleman

Re: Discrepant Shipments Of E.M.T.
Conduit

La Moyne:

I am in receipt of your February 20, 1975 Letter regarding discrepant E.M.T. shipments. On behalf of Amfac errors, I apologize for our mistakes and have given our Warehouse Personnel specific instructions on how to handle your future Conduit shipments.

I am also forwarding a letter of complaint to Western Conduit in Los Angeles stating our problems in the past with rusty material arriving on the Job Site.

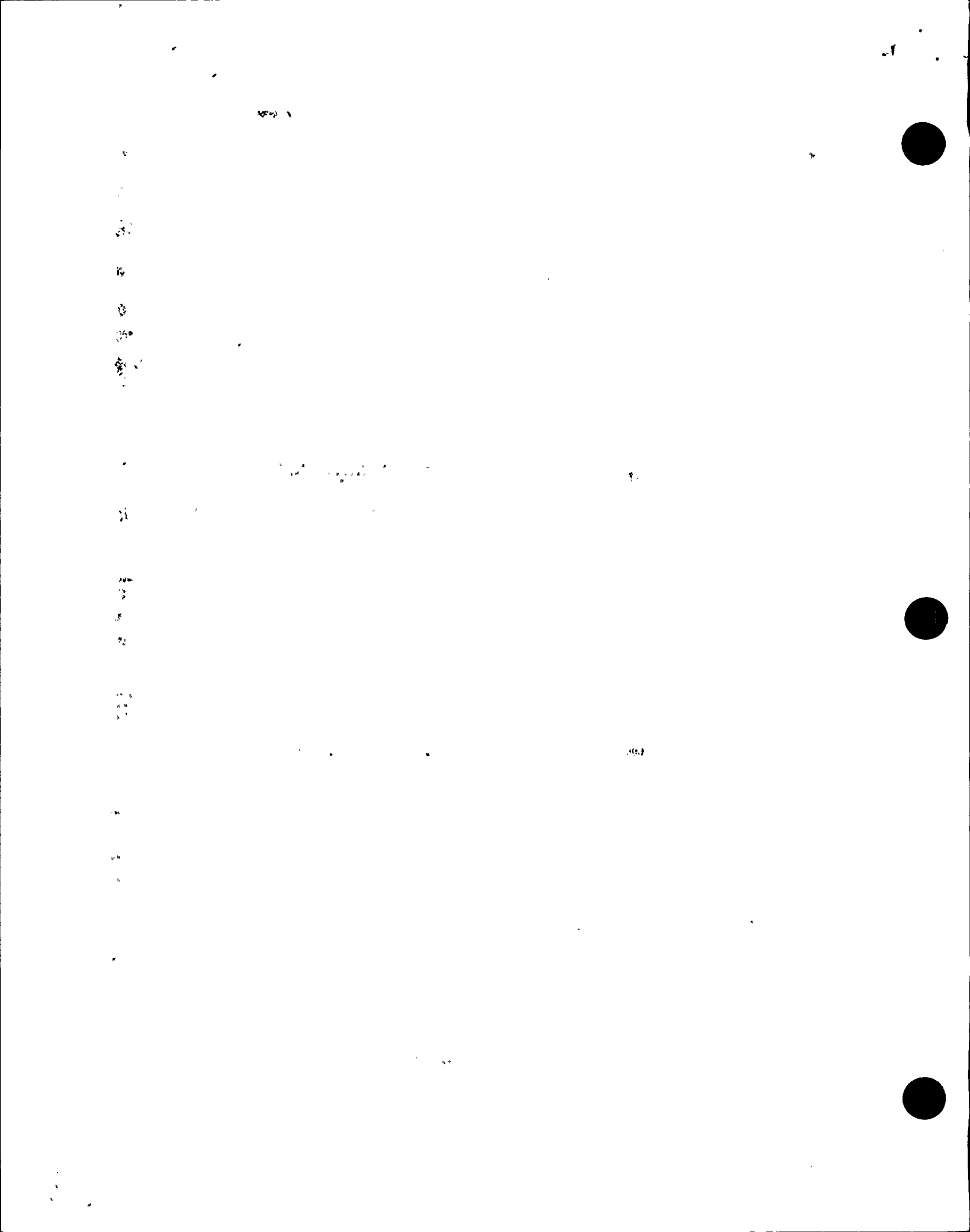
Again, please accept my apology for the problems in the past.

Very truly yours,

Bernard Norman

Bernard Norman
Branch Manager
Santa Maria

BN:bjs



THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: Western Tube & Conduit CorporationAddress: 370 8th Avenue, Oakland, California Phone: 834-3369Total Personnel: 34 Total Personnel in Quality Program: 4Shop Superintendent: Douglas M. Patterson - Plant ManagerHead of Quality Program: Larkin Papazian

EVALUATION BY PAST PERFORMANCE: Presently supplying distributors throughout eleven western states, State of California (Dept. of Highways), G.S.A., State of Washington (Dept. of Highways), Bart System. Any and all Commercial & Gout. Jobs for nine years.

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

Yes--Approved by Underwriters Labs, G.S.A. & State of California.

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

Receiving inspection and Final inspection performed to Gout. Standards. In process inspection 100% Regular Underwriters laboratories inspection performed to U.L. -6 Standards.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

Certain steps in the manufacturing process are performed to written procedures, other steps are performed and checked in accordance with sound industry wide practices for the manufacture of Rigid steel Conduit.

ARE WORKERS QUALIFIED? (State Qualifications)

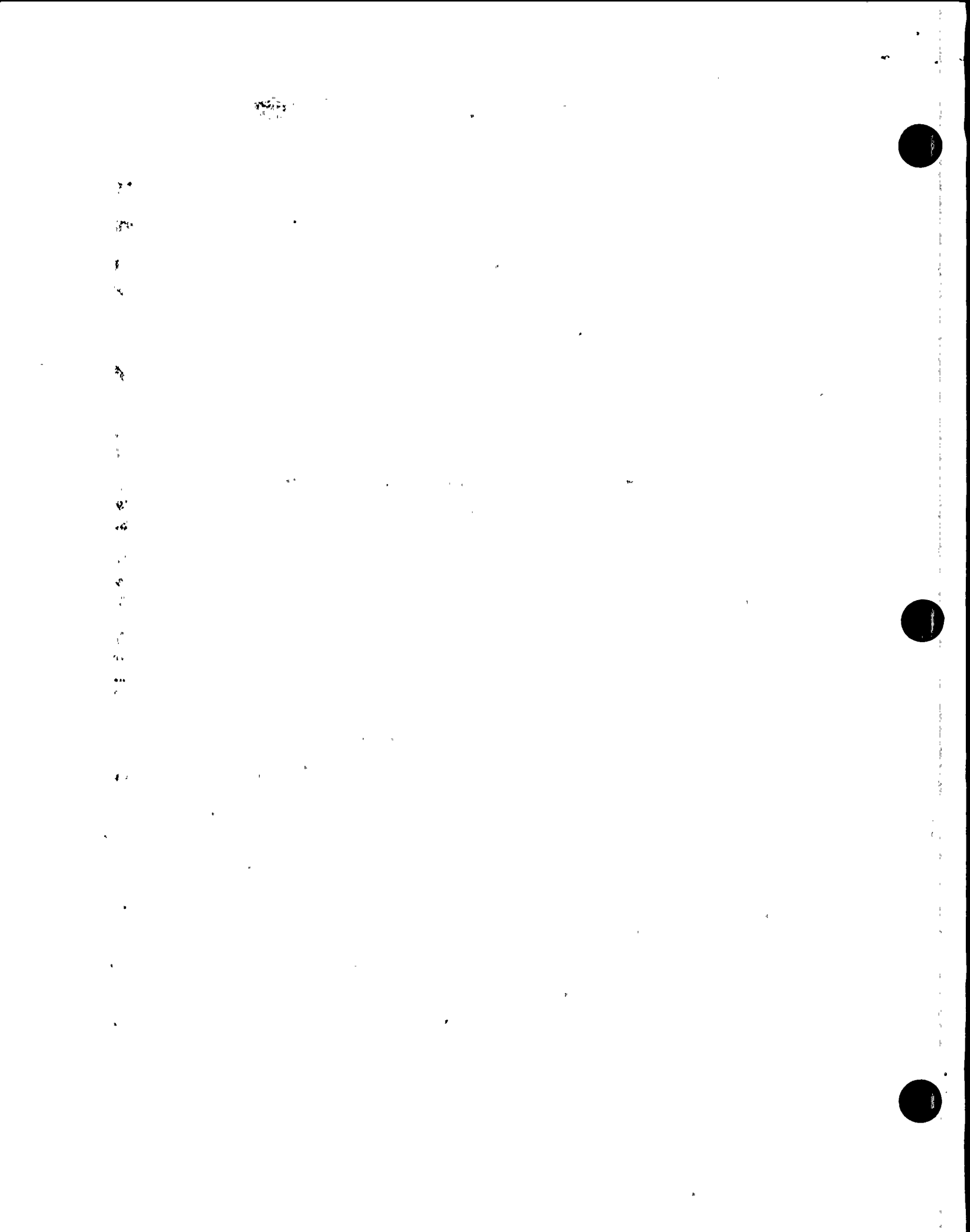
Workers are members of the International Brotherhood of Electrical Workers and complete A Rigid Training Program established for their particular job.

LIST OF MACHINERY AVAILABLE:

5-Double end automatic Ladis Conduit Threading Machines, 4- Single End conduit Threaders, 4- Semi-Automatic Finishing, painting and Packaging Lings, 2-Automatic Pipe sawing and cutting machines, various testing and bending machines, etc.

TYPE OF WORK PERFORMED:

Cutting, threading, chamfering, painting and packaging of Rigid Steel Conduit.



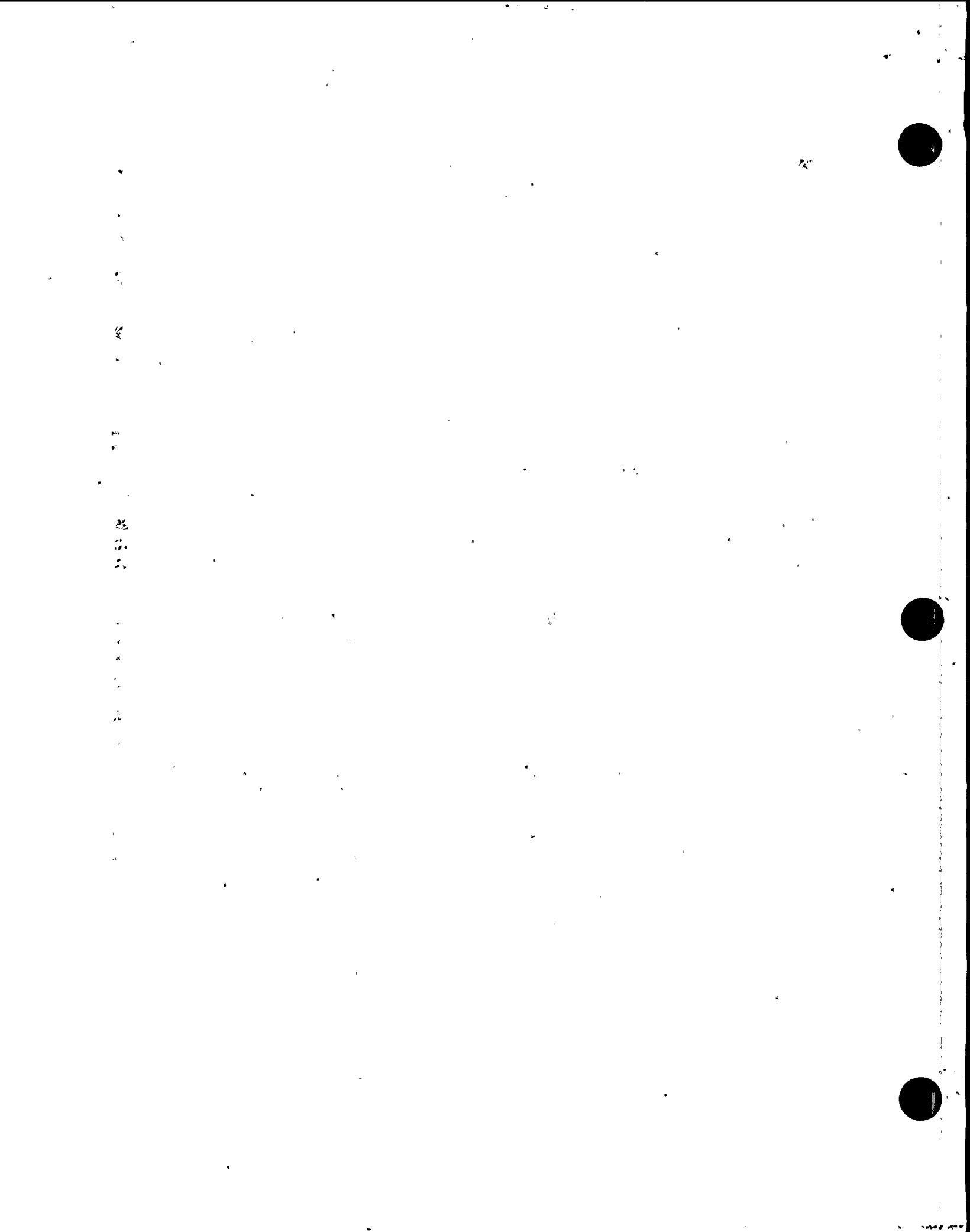
6. List the processes performed by your company (heat treating, machining, die casting, anodising, non-destructive testing, strictly warehousing, assembling, etc.).

SECTION B---RECEIVING INSPECTION

	YES	NO	N/A
1. Are all incoming materials subject to inspection?	_____	_____	_____
2. Are test reports and/or certifications required of your source?	_____	_____	_____
3. Are copies of purchase orders and specifications available to receiving inspection personnel?	_____	_____	_____
4. Are nuclear contract numbers and applicable specifications listed on purchase orders?	_____	_____	_____
5. Are materials released for production prior to receipt of certifications or test reports? If answer is YES, please explain.	_____	_____	_____

SECTION C---RAW MATERIALS CONTROL

	Applicable _____ Non-Applicable _____		
	YES	NO	N/A
1. Are all raw materials identified as to lot, purchase order number, shipment number, or by other means to assure traceability?	_____	_____	_____
2. Is inspection status clearly indicated?	_____	_____	_____



YES NO N/A

3. Is material controlled to prevent wrong material or excessive amounts from being issued?

4. Are all materials subject to deterioration age dated and issued on a "First-IN-First-Out" basis?

5. Can cure dates be furnished on rubber products?

SECTION D---TOOL AND GAGE CONTROL

Applicable _____
Non-Applicable _____

YES NO N/A

1. Are written procedures established to control the identification, calibration and frequency of calibration of tools and gages?

2. Are tools and gages identified with serial numbers or by other means to effect traceability to calibration records?

3. Is date of calibration, by whom, and due date of next calibration indicated by label or some other means?

4. Are all the requirements of ASME or equal complied with?

SECTION E---IN-PROCESS INSPECTION

Applicable _____
Non-Applicable _____

1. Is first article inspection performed by Q. C.?

2. Is floor inspection performed by Q. C.?

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SECTION F---FINAL INSPECTION

Applicable _____
Non-Applicable _____

YES NO N/A

1. Have you developed your own sampling procedure? _____
2. Do inspection records show sample size? _____
3. Is 100% inspection used? _____
4. Are certain characteristics considered more critical than others? _____
5. Are procedures set up to give emphasis in inspection to these characteristics? _____
6. Are all applicable customer requirements adhered to in final inspection? _____
7. Does final inspection cover all drawing and specification characteristics regardless of any floor or first article inspection functions performed? _____
8. Are special packaging and marking requirements under the surveillance of final inspection? _____

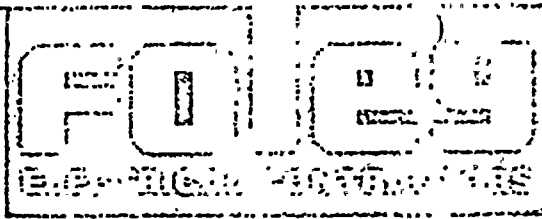
SECTION G---NON-CONFORMING MATERIAL

YES NO N/A

1. Is non-conforming material segregated? _____
2. Is non-conforming material identified as such with variations or defects listed? _____
3. Do you have a procedure set up for handling material review? _____
4. Are corrective action procedures established and enforced? _____



91



September 6, 1974

Z.R.C.
The Sealube Company
21 Newport Avenue
Quincy, Massachusetts 02171

RE: P.G.&E. Contract
22C-8802-2
Our Job Y-573

Quality Program

Gentlemen:

We would appreciate any literature you could provide us on your Quality Program.

Please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

Daniel J. Dugan
Daniel J. Dugan
Manager of Quality

cc: L.E. Addleman

PD/DJD/ca

Encl.

THE

HOWARD P. FOLEY
COMPANY
P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Branches:

SALT LAKE CITY, UTAH
BALTIMORE, MARYLAND
PHOENIX, ARIZONA
HOUSTON, TEXAS
MARTINEZ, CALIFORNIA
PITTSBURGH, PENNSYLVANIA
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NEW ORLEANS, LOUISIANA
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HARRISBURG, PENNSYLVANIA
RICHMOND, VIRGINIA
WASHINGTON, D.C.

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9/13/74
J.G. 29-13-74

THE HOWARD P. FOLEY COMPANY
SUPPLIER EVALUATION

Name of Supplier: Z.R.C. CHEMICAL PRODUCTS Co. (FORMERLY THE SEAWORK Co.)
Address: 21. NEWPORT AVE. QUINCY MA. 02171 Phone: 617-328-6700
Total Personnel: 30 Total Personnel in Quality Program: NA
Shop Superintendent: Pat. Chasen, Jr.
Head of Quality Program: Pat. Chasen, Jr.

EVALUATION BY PAST PERFORMANCE:
Good Called ZRC 9-16-74

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?
No

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?
Federal Test Method Std No. 140 MILP-21035
MIL P-269.15A USDA ASTM UL listed

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?
No

ARE WORKERS QUALIFIED? (State Qualifications)

LIST OF MACHINERY AVAILABLE:

TYPE OF WORK PERFORMED: As we are the manufacturer of the subject product (per enclosed literature) it would not appear that this "evaluation data" would be applicable.
inc - #104

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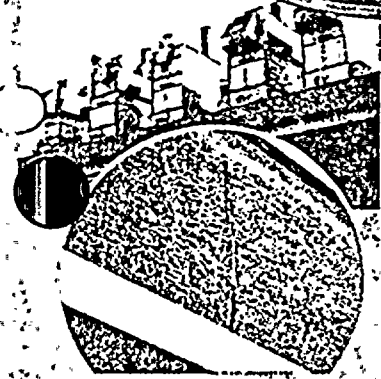
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A THOROUGHLY PROVEN CONCEPT OF CORROSION CONTROL

(Over twenty years)



INDUSTRIAL MAINTENANCE: Loading area, close-up taken two years after trailer scraped overhead beams. Rust cannot creep under Z.R.C.



TRANSMISSION TOWERS: Z.R.C. is used as original protection. Also over worn hot dip.



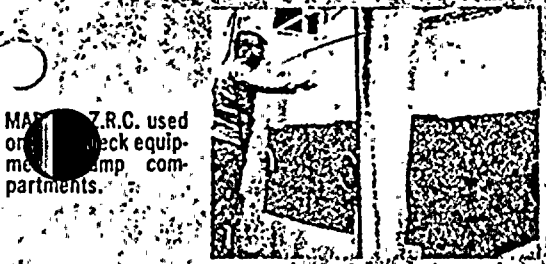
MANUFACTURING: O. E. M.'s use Z.R.C. instead of paint to improve product quality.



WELDING: Z.R.C. is the most practical means of rust-proofing welds, in-shop or on job site.



FENCING: Industrial, municipal anywhere. Picture was taken at Boston's Logan Airport.



MAINTENANCE: Z.R.C. used on truck equipment compartments.

Z.R.C. COLD GALVANIZING

Stops rust AND rust creepage on any surface, any size, anywhere — also renews worn or broken hot dip galvanized surfaces.

Ready for use directly from container.

Application: brush, spray, roller, dip.

U.S.D.A. approved

Recognized under the Component Program of UNDERWRITERS' LABORATORIES, INC.

Z.R.C. CHEMICAL PRODUCTS CO.

21 NEWPORT AVE., QUINCY, MASS. 02171-TL 617/328-6700

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Z.R.C.[®]

DESCRIPTION

is a liquid compound containing 95% zinc in the film, that fuses to clean iron, steel or aluminum through electrochemical action to provide maximum protection against rust and rust creepage.

Z.R.C. vs. PAINT

It is important that there is an understanding of the conceptual difference between Z.R.C. and paint.

While all types of paints provide only a "skin" protection, Z.R.C. imparts cathodic action against corrosion — i.e., in the presence of moisture its metallic zinc content becomes an anode and the underlying surface a cathode. Corrosion attacks the zinc leaving the base metal untouched.

If the "skin" of a paint is broken, in any way, it will rust in that area and also allow rust creepage under the break. However, if Z.R.C. is scratched to the bare metal the zinc will form an insoluble zinc salt on the exposed area. This heals the break and continues to protect the surface against any corrosion.

Thus — Z.R.C. will not allow rust creepage.

Color: Matte flat light gray.

Packaging: 3-½ gallon pails, gallons, quarts, half-pints and aerosol cans.

- One package • No premixing • Unlimited pot-life
- Unlimited shelf-life • Ready to apply

SURFACE PREPARATION

Z.R.C. should be applied to clean, dry metal for maximum results. It is also efficient over firmly adherent rust after wire brushing. Grease or oil should be removed with Z.R.C. M. Conditioner. Mill scale and deep adherent rust must be blasted. Commercial blasting is generally acceptable.

Mineral-grit blasting is recommended for immersion service or similar severe exposures.

APPLICATION METHODS - COVERAGE

APPLICATION. Z.R.C. may be applied by brush, spray, dip or roller.

SPRAY (Low pressure compressor type). Atomizing pressure 50 p.s.i. Orifice of tip 0.080 ($\frac{80}{1000}$ ths) ± 5 . Viscosity — Reduce Z.R.C. in ratio of 4 parts Z.R.C. to 1 part XXX Thinner*.

SPRAY (Airless type). Pressure 650-750 p.s.i. Orifice of tip 0.013-0.023 ($\frac{13}{1000}$ to $\frac{23}{1000}$). 0.018 ($\frac{18}{1000}$) generally delivers optimum performance. Viscosity — No reduction required.

BRUSH OR ROLLER — No reduction required. Apply as received from container.

DIPPING — Reduce Z.R.C. in ratio of 3 parts Z.R.C. to 1 part XXX Thinner*.

DRYING — When Z.R.C. is air dried, it is set to touch in 20-30 minutes and may be re-coated in 12 hours.

CURING — Z.R.C. requires curing before being exposed to severe service. When air-dried, it cures progressively up to 14 days. Curing may be accelerated to a matter of minutes if heat is applied. Suggested cycle for full cure is 300°F for 30 minutes.

FLASH POINT — Z.R.C. has a safe flash point of 104°F and thereby enables its use freely around welding operations.

COVERAGE — 400-500 square feet per gallon. An average brush coat of Z.R.C. will deposit 1.5-2.0 mils (dry film thickness). This is generally sufficient for "regular" environment exposure. Two coats are suggested for severe exposure conditions.

*XXX Thinner is our special solvent — available in drums, gallons and quarts.



TANKS: Cold galvanized with Z.R.C. in 1964 — still good for several years (Galena, Park, Texas)



OFF-SHORE RIGS: Z.R.C. utilized to protect above and below water line.



CONSTRUCTION: Unlimited uses, i.e., Z.R.C. used on structural channel frames, Bank of America Building, San Francisco. Also part of curtain wall support system, I.O.S. Center, Minneapolis; curtain wall mullions, Republic Bank Tower, Dallas.



TELEVISION TOWERS: In addition to tower protection, Z.R.C. is used to re-galvanize support cables.



FOOD PROCESSING: U.S.D.A. approved. Z.R.C. protects all processing equipment, and is also used on overhead beams, pipe ducts, etc.



COLD GALVANIZING IN LIEU OF HOT DIP: Z.R.C. makes galvanizing an "in-plant" operation for many manufacturers.



COOLING TOWERS: Z.R.C. eliminates what used to be a constant maintenance problem — recoating air-conditioning equipment. Z.R.C.'s protection lasts!

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Z.R.C.® USERS REPORT

Antenna Systems Installer: "Although the referenced project is classified and no information concerning same can be furnished, we would like you to know that Z.R.C. had stood up very well."

Owner of Mercedes-Benz Club of America: "I have found that where surface rust has started, Z.R.C. will stop rust cold. Over a five-year period, any area where Z.R.C. has been applied, there has been no further rust. Even areas where cancer rust has started, Z.R.C. will stop further rusting."

Commercial Fishing Captain: "Three years ago Z.R.C. was applied to a rust condition on the exhaust piping of both my ships that was of great concern to me. Z.R.C. stopped this condition and I have noticed that exhaust heat has no effect on your product."

Castings Company: "We recommend this product very highly. Five years ago we coated a 1000-gallon water tank, made of ordinary iron, and today only a few rust streaks show, even though water has been in the tank continuously."

County Engineering Department: "This is our sixth year of using Z.R.C. Cold Galvanizing Compound on various County bridges. We have had good results where the material was used following the manufacturer's instructions."

Department of Transportation: "We are pleased to inform you that on the basis of previous testing Z.R.C. has been listed as an approved method of galvanizing repair."

Lumber Company: "We sandblasted and sprayed two coats Z.R.C. on a tremendous derrick. It has held up very well even after continued exposure to outdoor weathering for nearly seven years."

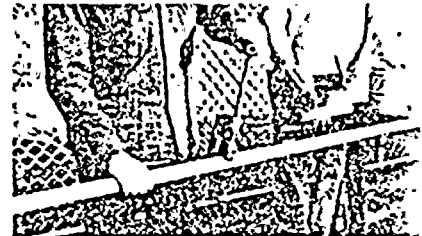
Manufacturers using Z.R.C. in production say...

"Z.R.C. makes galvanizing an in-plant operation, eliminates shipping charges and time, speeds delivery schedules." ... Air Conditioning Equipment Manufacturer: Tests in our laboratories have drawn the conclusion that two coats of Z.R.C. on phosphatized panels are completely equal to Hot Dip Galvanized ... Bulk Feed Bin Manufacturer: "We use Z.R.C. to galvanize flat and angle bars after fabrication. We have found that using your material after fabricating rather than using a hot-dip galvanizing product before fabrication causes us much less trouble with our punching and notching units." ... Exhaust Systems manufacturer says: "Principal application is on black iron channel and angle and it has afforded a substantial cost saving over conventional galvanizing." ... Manufacturer of Electrical Distribution Equipment writes: "Prior to using Z.R.C. we sent all our panelboard boxes outside

for hot-dip galvanizing. This cost us time and money and put us at the mercy of our galvanizer. By using Z.R.C. we can utilize our paint-room facilities to galvanize with Z.R.C. We are deeply grateful for the inception of such a material and readily realize the savings it has brought about."

Repair of Hot Dip Galvanizing

Z.R.C. is extensively used to repair hot dip surfaces damaged by cutting, forming, welding or wear. Exceeds requirements of Federal Specification MIL-P-21035 (hot dip galvanizing repair).



Cut edges of hot dip galvanized pipe being regallyzed with Z.R.C.

LABORATORY TESTS AND SPECIFICATION CONFORMANCE DATA

1. Z.R.C. was tested without failure for 1252 hours in a standard salt spray cabinet according to Method 6061 Federal Test Method STD. No. 141.
2. Z.R.C. meets and exceeds the maximum requirements of U.S. Air Force Specification MIL-P-26915A.
3. Z.R.C. is accepted by U.S.D.A.
4. Z.R.C. meets the ASTM salt spray test which require a dry film thickness of .0015" for 250 hours.
5. Z.R.C. meets Galvanizing Repair Specification MIL-P-21035 (ships).
6. Z.R.C. did not fail after being subjected to over 2000 hours severe salt spray tests by Underwriters' Laboratories, Inc.
7. Z.R.C. independent tests, in accordance with the *Preece Test*, concluded that it is comparable to hot-dip galvanizing with the standard one coat or .0015" mils thickness.
8. Z.R.C. may be used under MIL-T-26433. Towers, Temperate and Arctic.
9. Z.R.C. resists hot water temperatures above the boiling point and may be used on the interior and exterior of water tanks.
10. Z.R.C. resists continuous dry heat temperatures up to 750°F.

Underwriters' Laboratories, Inc.*

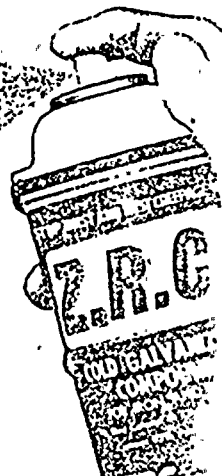
Z.R.C. is recognized under the Component Program of Underwriters' Laboratories, Inc.

U.S.D.A. Approved*

Z.R.C. Cold Galvanizing Compound is chemically acceptable. It may be used in processing or storage areas for meat or poultry food products prepared under Federal inspection.

*Copies of reports available upon request.

Shake and spray — It's as easy as that to cold galvanize relatively small areas or objects. Z.R.C. aerosol can has an unique valve assembly that prevents clogging.



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OTHER PRODUCTS
ALSO AVAILABLE FROM

Z.R.C. CHEMICAL PRODUCTS CO.



Z.R.C.® METAL CONDITIONER

- DE-OXIDIZES — NEUTRALIZES RUST
- DE-GREASES — REMOVES GREASES & OILS
- PHOSPHATIZES — FOR MAXIMUM ADHESION

3 STEPS IN ONE EASY OPERATION...

Z.R.C. Metal Conditioner is a new concept in metal surface preparation. Although formulated as a metal pre-treatment for Z.R.C. Cold Galvanizing Compound, it is equally effective to pre-clean and prepare any type of metal surface (ferrous or non-ferrous) for any type of painting.

In one easy operation Z.R.C. Metal Conditioner will:

1. Neutralize rust oxides on any ferrous or non-ferrous metal surface. Because of these de-oxidizing properties, it also acts as an excellent brightener for aluminum, zinc and copper surfaces (including aluminum truck bodies).
2. Removes residual oils and greases by its unique detergent action
3. Slightly etch the metal surface and leave a phosphate deposit that will maximise the adhesion properties of any top-coat.

As an additional convenience and cost saving feature... Z.R.C. Metal Conditioner needs no rinsing or neutralizing — simply...

(A) APPLY (B) ALLOW TO SET 5 MINUTES (C) WIPE
the surface is now pre-treated and ready for top-coating

APPEARANCE Blue liquid (very slight solvent odor)
PACKAGING Gallons — Packed 6 Polyethylene jugs per case (shipping weight 53 lbs. per case)
Quarts — Packed 12 Polyethylene bottles per case (shipping weight 27 lbs. per case)

Z.R.C. Metal Conditioner meets and exceeds the requirements of Federal Specification MIL-C-10576 (Type II)

U.S.D.A. approved



"Tough as the metal itself."



For fast, simple, low-cost repair or rebuilding anything made of metal. As easy to use as putty! Hardens quickly and becomes an integral part of the repaired object.

FEATURES

1. Can be used to repair metals including steel, aluminum, copper, brass, bronze, tin, lead, zinc, etc.
2. Can be used as an adhesive to bond iron, steel, aluminum, copper, brass, bronze, lead, zinc, tin, glass, concrete, brick, ceramic and most plastics to itself or each other.
3. Can be tapped, drilled and machined with regular metal-working tools.
4. Virtually unaffected by acids, alkalies, chemicals, solvents (including gasoline and oils).
5. Heat resistant to 250°F.
6. Will not rust.
7. Available in half-pint, quart and gallon kits.

Ask for Bulletin No. 50



CHEMICAL AND ABRASION RESISTANT FINISH

... is a formulative advance in coatings research offering these advantages.

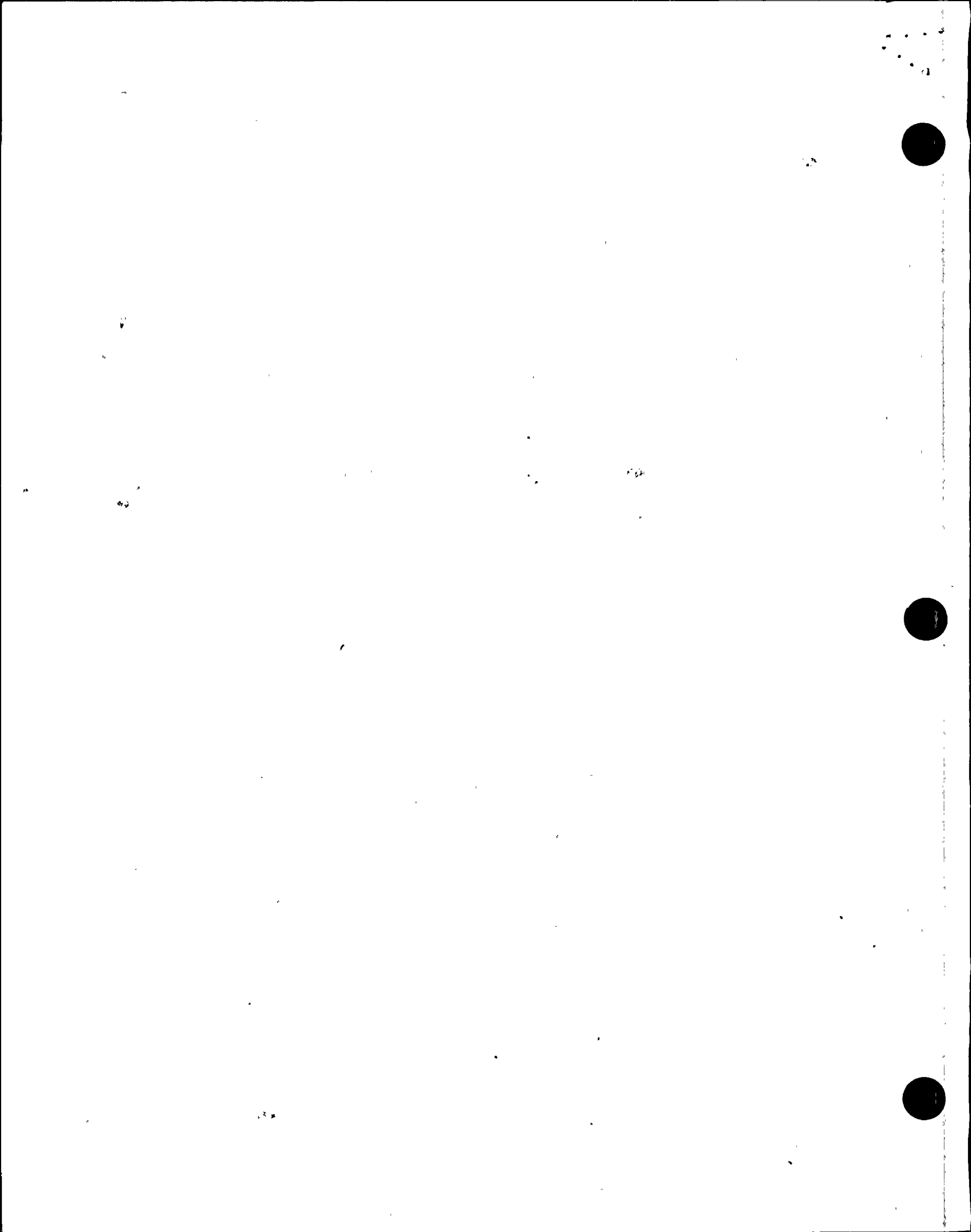
- Single container epoxy gloss enamel requiring no catalyst.
- No pot-life limitations generally associated with epoxy products.
- Withstands effects of acids, alkalies, alcohol, grease and oil.
- May be used as a top-coat for Z.R.C. Cold Galvanizing compound where a gloss finish is desired.

U.S.D.A. approved

Available in 7 colors

Ask for Bulletin No. M762

Please Note: Our data and suggestions are based on information we believe to be reliable. Because they are not based on specific situations that may arise and because we cannot control application or varying factors, we cannot guarantee them or accept any liability resulting from their use and the use of our Products.



Revised 5/25/76

P.G.&E. APPROVED LIST OF DISTRIBUTORS
FOR
THE HOWARD P. FOLEY COMPANY

Apache Sales Corporation

Nuts, bolts, screws &
misc. hardware

Electrical Specialty Co.

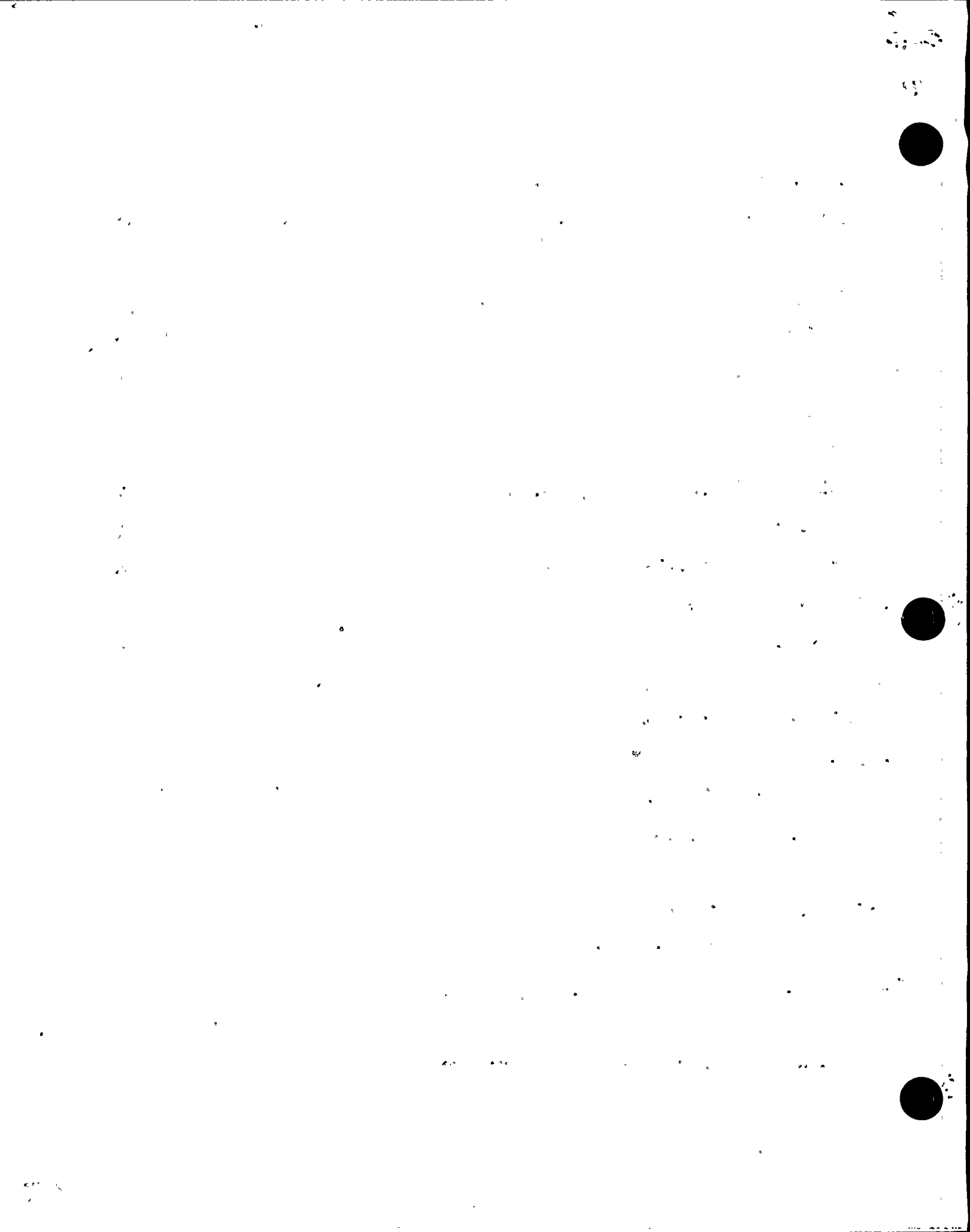
Varaflex products,
tubing

Insulation Supply Company

Tubing, fiber glass rod

Not approved by letter
MAG-TROL Distributors Inc.

G.E. Term. blocks



SUPPLIERS

Coast Welding

Tools, welding rod, hardware

Contractors Building Supplies

Tools, hardware

M & S Pipe & Supply

Metal products, tools, hardware

C. H. Bull S.F.

Tools

Hopper

Tools, hardware, metal products

Welders Supply

Tools, hilti quick-bolts.

AMFAC Santa Maria

All electrical supplies

DECO

All electrical supplies

Graybar

All electrical supplies

Electric Supply of Vallejo

Strut

GESCO General Electric Supply Co.

All electrical supplies

WESCO Westinghouse Electric Supply Co.

Tray

Consolidated Electric Supply Concord

Crouse-Hinds; lamps

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May 1, 1975

Apache Sales Company
4770 E. Valley Blvd.
Unit 107
Los Angeles, CA 90032

RE: Quality Program

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheets and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY
ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN
La'Moyne E. Addleman
Project Manager

JLG/sc

cc: R. Green

Attachments

THE
HOWARD P. FOLEY
COMPANY

P. O. BOX 327,
AVILA BEACH, CALIF.
93424
805-595-2322

Offices:

ALLENTOWN, PENNSYLVANIA
BALTIMORE, MARYLAND
CHICAGO, ILLINOIS
DALLAS, TEXAS
HARRISBURG, PENNSYLVANIA
HOUSTON, TEXAS
LOS ANGELES, CALIFORNIA
MARTINEZ, CALIFORNIA
MEMPHIS, TENNESSEE
NEW ORLEANS, LOUISIANA
PHILADELPHIA, PENNSYLVANIA
PHOENIX, ARIZONA
PITTSBURGH, PENNSYLVANIA
RICHMOND, VIRGINIA
SALT LAKE CITY, UTAH
TAMPA, FLORIDA
TUCSON, ARIZONA
WASHINGTON, D.C.

Canadian Subsidiary:

EDMONTON, ALBERTA

THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: APACHE SALES CO.
Address: 4770 E. VALLEY BLVD #107, LOS ANGELES, CA 90032 Phone: 213/221-6151
Total Personnel: 7 Total Personnel in Quality Program: 2
Shop Superintendent: H. HAUSMAN
Head of Quality Program: J. WALTERS

EVALUATION BY PAST PERFORMANCE: GOOD

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

No

QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

Yes

DURING PACKAGING

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

No

ARE WORKERS QUALIFIED? (State Qualifications)

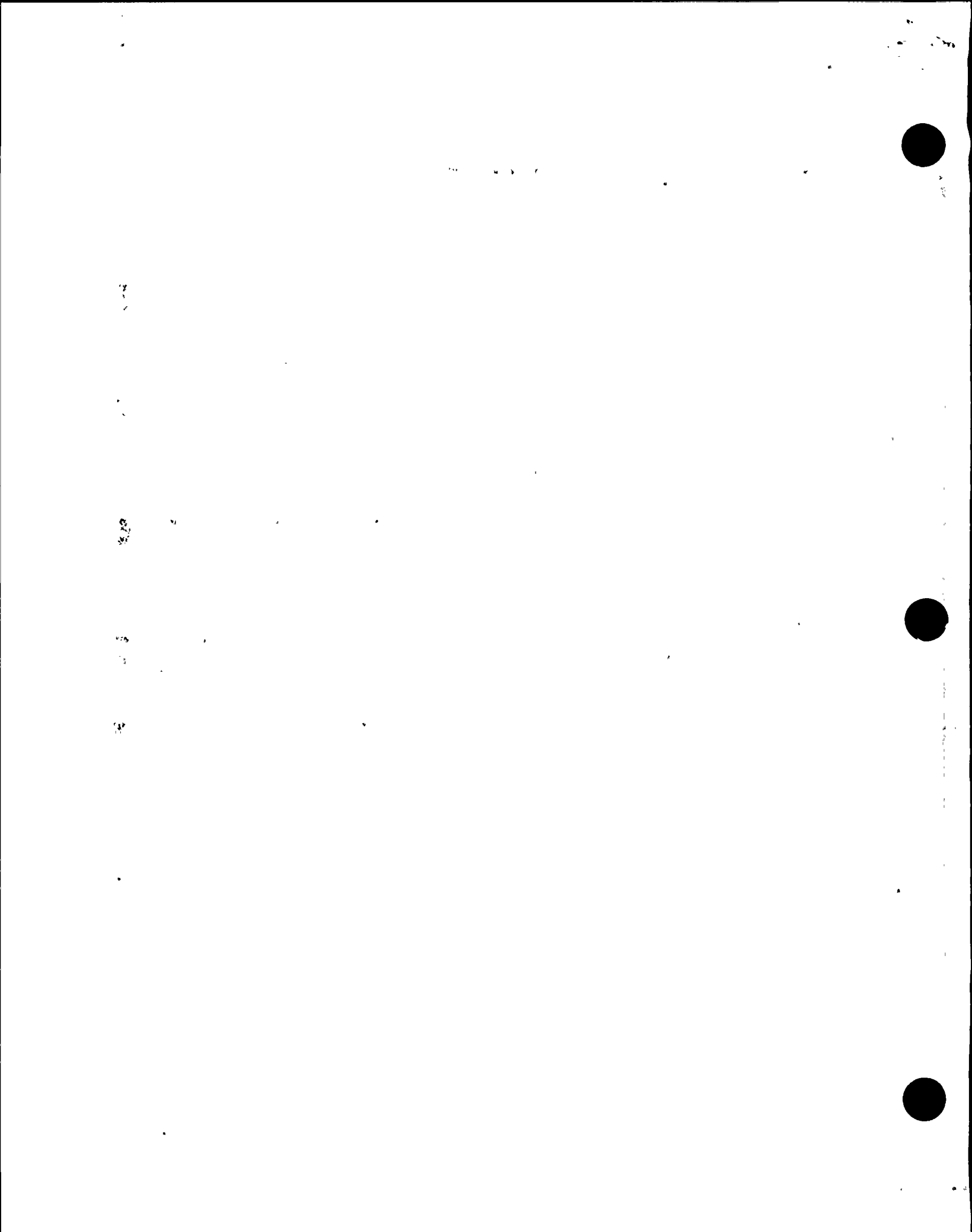
Yes - EXPERIENCED PACKAGING & WAREHOUSE SERVING

LIST OF MACHINERY AVAILABLE:

WEIGHT SCALES, STAPLING MACHINES

TYPE OF WORK PERFORMED:

PACKAGING OF THREADED PRODUCTS



WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)

Good

IS SHOP CLEAN AND ORDERLY?

Yes

DOES STOCK HAVE TRACEABILITY, CERTS.?

Yes, But NOT CERTIFIED

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?

Yes

No

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?

3500 FT²

Yes

IS THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes No

H. Hansing
Q.A. Engineer/Inspector

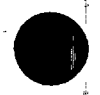
5-8-75
Date

Approved by:

J. Hatter
Q.A. Supervisor

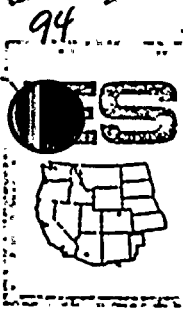
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Date

Remarks:



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MAP



Serving Western Industry Since 1912

ELECTRICAL SPECIALTY CO.

7244 Condor Street · Los Angeles, Calif. 90040 · (213) 724-9600 · TWX (910) 580-4732

March 18, 1975

Foley Electrical Contractors
P. O. Box 327
Avila Beach, California 93424

Attn: La'Moyne E. Addleman
Project Manager

Dear Mr. Addleman:

We wish to acknowledge receipt of your letter of March 11th regarding information on our Quality Program.

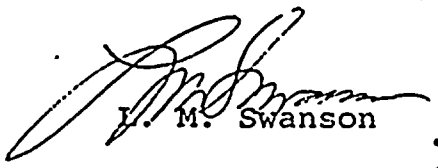
We are a distributor, not a manufacturer, so therefore are unable to complete form which you have forwarded.

We do have many of the products which we inventory in our warehouse, manufactured to various military specifications and are able to furnish test reports.

In the meantime we are attaching herewith our Products List on materials which we handle. Trusting we may have the opportunity to serve you, we are

Very truly yours,

ELECTRICAL SPECIALTY CO.


L. M. Swanson

LMS/pb
Attachment

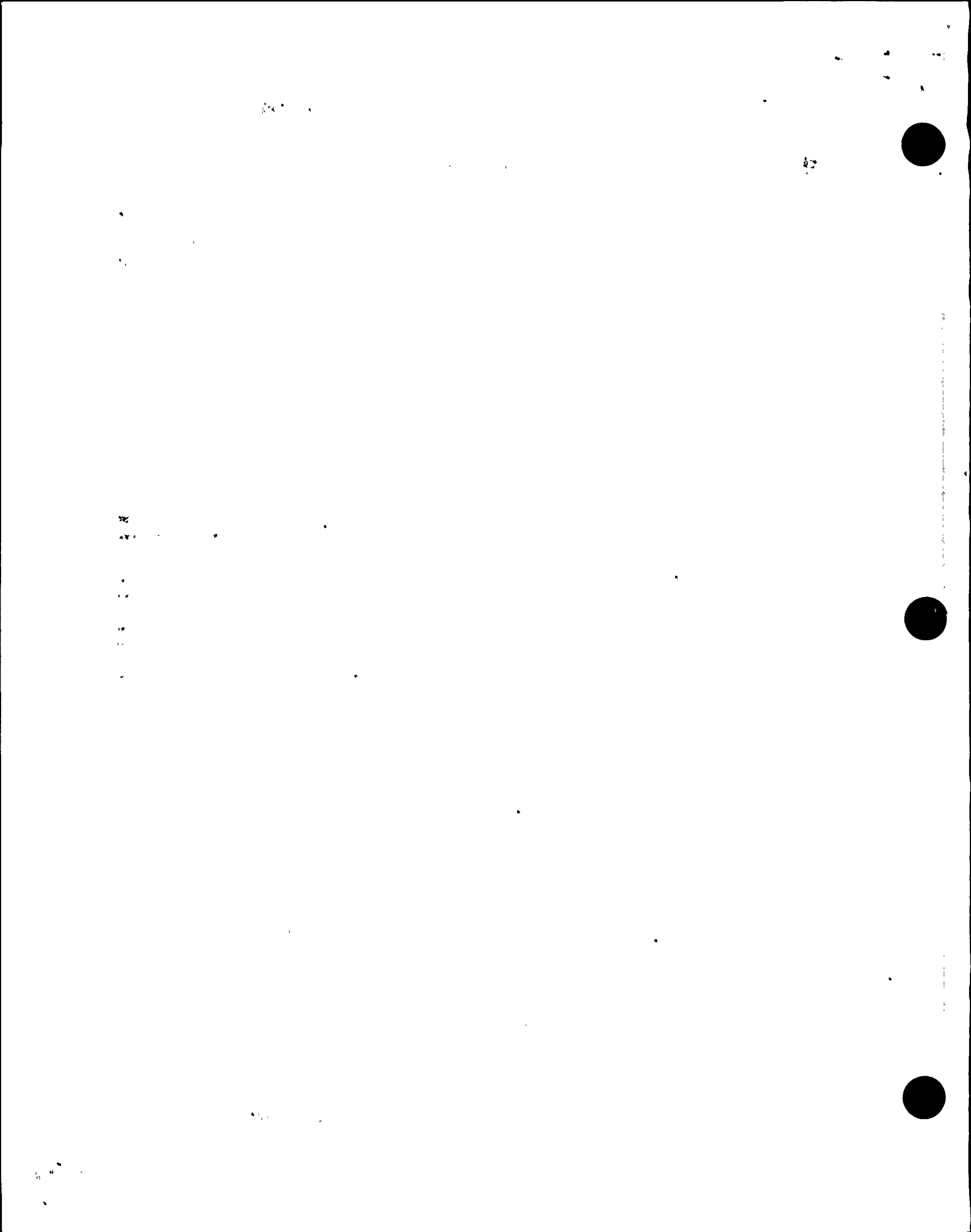
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QA-QC

MAR 20 1975

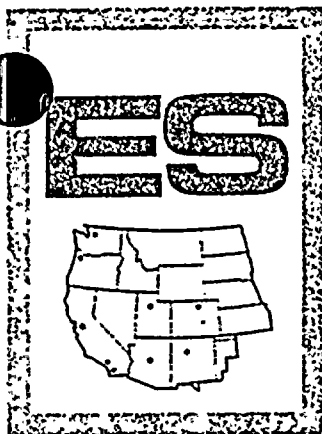
HOWARD P. FOLEY CO.
Avila Beach, Calif.

236

87



Serving Western Industry Since 1912



ELECTRICAL SPECIALTY CO.

A SUBSIDIARY OF BELDEN CORPORATION

PRODUCT SELECTOR GUIDE FOR:

ELECTRICAL INSULATION

MAGNET AND LEAD WIRE

INDUSTRIAL PLASTICS

BALL BEARINGS

TEST INSTRUMENTS

TOOLS AND ACCESSORIES

PRODUCTION EQUIPMENT

SOUTH SAN FRANCISCO, CALIF.
213 East Harris Avenue
(415) 589-9611 ZIP 94080

SEATTLE, WASHINGTON
3667 First Avenue South
(206) 682-3434 ZIP 98134

DENVER, COLORADO
3999 Holly Street
(303) 321-0226 ZIP 80207

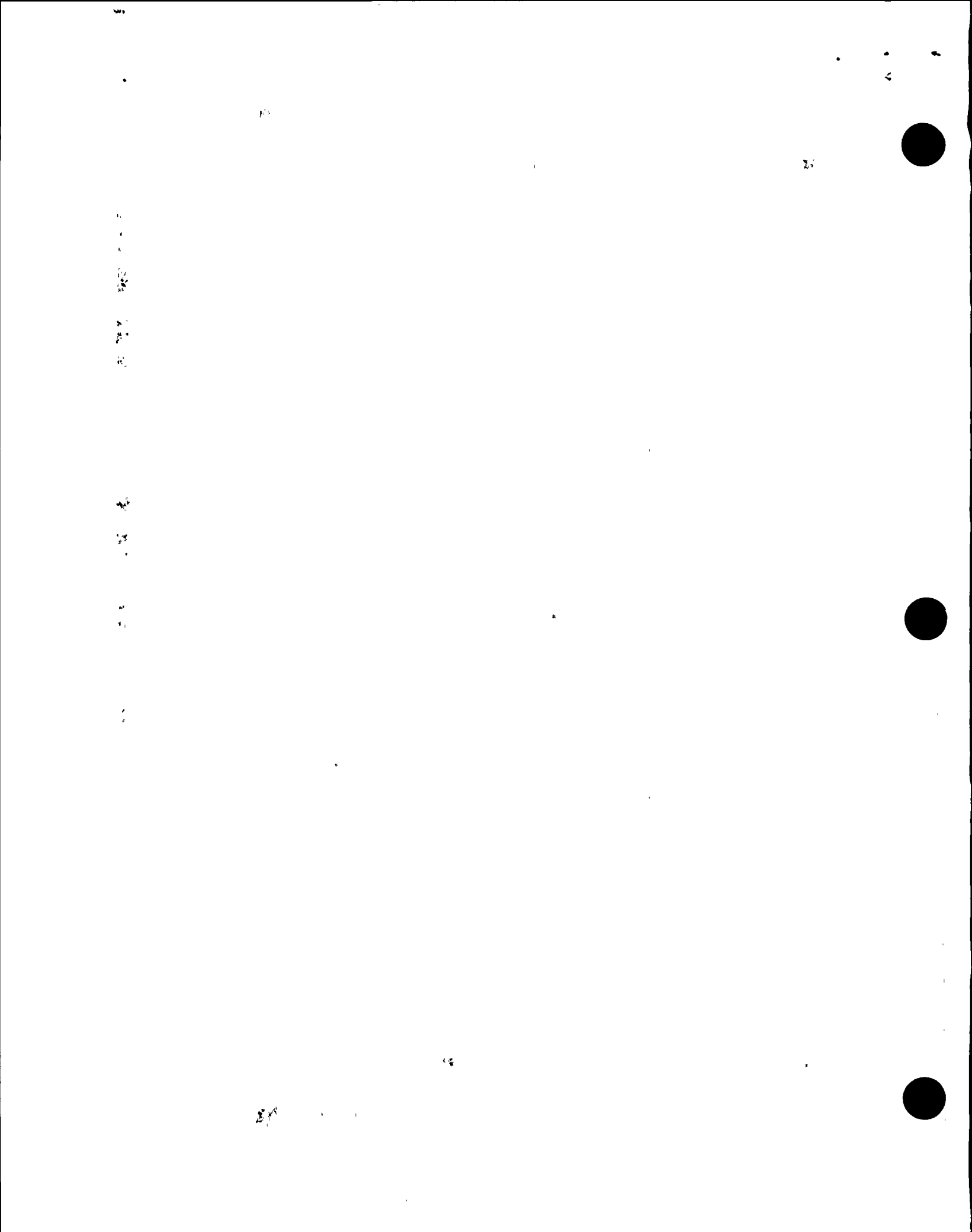
LOS ANGELES, CALIF.
7244 Condor Street
(213) 724-9600 ZIP 90040
TWX 910-580-4732

PORTLAND, OREGON
2360 NW Quimby Street
(503) 227-3601 ZIP 97210

SAN DIEGO, CALIF.
345 Sixth Avenue
(714) 239-1345 ZIP 92101

PHOENIX, ARIZONA
202 South 29th Street
(602) 275-5736 ZIP 85034

SALT LAKE CITY, UTAH
1505 South 700 West
(801) 487-9805 ZIP 84104



COATED PRODUCTS

Manufacturers: NATVAR - G.E.

Rolls, Sheet, Tape. Varnished Glass Cloth, Polyester, Silicone, Epoxy, Teflon®. Polyester Banding Tape.

COMPOSITES & SYNTHETICS

Manufacturers: CHASE FOSTER - DU PONT - ELECTRO INSULATION - JOHNS MANVILLE - NATVAR

Rag-Mylar-Rag, Dacron-Mylar-Dacron (DMD) Fiberglass-Asbestos, Nomex®, Treated Asbestos, Duroid®, Nomex-Mylar-Nomex, Nomex-Kapton-Nomex, Mylar®.

FLEXIBLE TUBING & SLEEVING

Manufacturers: E.C.C. - NATVAR - VARFLEX - CIMCO - NIEMAND BROS. - BENTLEY HARRIS

Heat-shrinkable Teflon, Polyolefin, Vinyl. Spiral Wound, Coated Fiberglass, Acrylic, Lecton®, Silicone, Extruded Thin Wall Teflon, Vinyl.

FORMED WEDGES & FABRICATED PARTS

Fibre, Phenolic, Duroid®, Nomex®, Wood, Polyester. Corrugated spacers, Fish Paper, Cuffed DMD, Cuffed Paper.

MICA PRODUCTS

Uncut, pure mica. Molding, Segment, Flexible, Heater. Mica-mat combinations. Sheet, tape, wrappers, tubing.

**RECEIVED
VARNISHES - PAINTS -
STRIPPERS**

MAR 20 1975

Manufacturers: DOLPH - G.E. - SPRAYON - SCHENECTADY

HOWARD P. FOLEY CO. Epoxy, Sealers, Fungicidal, Strippers, Glyptal®, Permafil®, Polyester, Phenolic, Aerosols.

EPOXY RESINS-ADHESIVES

Manufacturers: DOLPH - EPOXYLITE - G.E. - ISO-CHEM - LOCTITE - PERMABOND - ACME - BOSTIK

Potting, encapsulating, coating. Electric Motor Repair Kits, Adhesive bonding, Electric power cable splicing, terminating kits, Epoxy adhesives and potting compounds.

SILICONE COMPOUNDS & FLUIDS

Manufacturer: GENERAL ELECTRIC

RTV Liquid silicone rubber. Potting and encapsulating. Dielectric fluids, greases, high voltage insulator coatings, insulating varnishes, RTV silicone adhesive sealants.

LUBRICANTS & WAXES

Manufacturers: G.E. - SPRAYON MITCHELL RAND

RTV Silicone Grease, Potting Waxes, Teflon®, Silicone, Graphite, Low and High Temp bearing Grease, Aerosol Lubricants.

PAPERS & PRESSBOARDS

Manufacturers: COTTRELL - DU PONT - G.E. - JOHNS MANVILLE - ROGERS - HOLLINGSWORTH & VOSE

Asbestos - Quinterra, Quinorgobord - Quintex. Kraft, Mica-mat, Capaco, Duro, Duroid®, Metallized, Capacitor tissue, Pressboard, Nomex®, Fish Paper.

PLASTICS

LAMINATED, FABRICATED, COPPER CLAD

HIGH PRESSURE

Canvas, Linen, Paper, Glass Epoxy, Phenolic, Silicone. Sheet, Rod, Tube. Copper clad epoxy glass, multi layer.

LOW PRESSURE

Manufacturer: GLASTIC

Polyester Glass Sheet, Spacers, Insulators, Wedges, Channels. Round, Square, Rectangular Rod.

Vertical text or markings along the left edge of the page.

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Small cluster of markings or text at the bottom center of the page.

TAPES—PRESSURE SENSITIVE

Manufacturer: PERMACEL
Electrical, Industrial, Teflon, Packaging.

TAPES—NON-ADHESIVE

Asbestos, Cambric, Cotton, Dacron, Rayon, Teflon®, Silicone Rubber, Polyester banding, Mica, Fiberglas, Pipe Wrap, Teflon® "Ribbon-Dope." Waxed nylon, Dacron Lacing, Vinyl, Irrathene, Polyolefin.

CORDS & TWINES

Armature, Cotton, Fiberglas, Waxed Linen, Nylon®, Dacron®, Teflon®/Glass, Neoprene Glass.

MAGNET WIRE

Manufacturers: BELDEN CORP. — PHELPS DODGE — WESTINGHOUSE

Square, rectangular, round. Sizes up to Ultra-fine. Armored Polythermaleze, ML. Solderable forms; Beldure, Beldsol, Nyleze, Sodereze. Gripeze, Formvar, Glass, Cotton, Paper.

LEAD WIRE & CABLE

Manufacturers: BELDEN CORP. — CIMCO
UL Approved. Hypalon, Neoprene, Teflon®, Vinyl, Hermetic, Nomex®, Silicone Rubber, Glass braided, 5 KV Hypalon, X-L Dur. Braided/Stranded Copper Cable: Flat, Round, Tinned, Bare. Teflon Hook-up. Portable Cords — Cord sets.

CAPACITORS

Motor start/run electrolytics, Oil run capacitors.

TOOLS, INSTRUMENTS & ACCESSORIES

Manufacturers: AMPROBE — BIDDLE — GENERAL ELECTRIC — IRD — HULLHORST — IDEAL — MARTINDALE — SIMPSON

and Tools, Saws, Test Instruments, Volt Meters, Wire Strippers, Growlers, Bearing Heaters, Panel Meters, Recorders.

PRODUCTION EQUIPMENT

A complete line of shop and production equipment including:

Balancing machines, banding lathes, bearing and gear pullers, bearing presses, coil cutters, coil pullers, coil spreaders, coil taping machines, coil winding machines, dynamometers, baking—burn-out—lab ovens, reamers, shears, tension devices, transformer winders, under-cutters, vapor degreasers, vibration analyzers and monitors, winding heads, wire derelers, keyway cutters.

MARKING & LABELING

Manufacturer: W. H. BRADY CO.

Self-sticking wire markers, pre-cut masks, Write-on Labels, Nameplates, Numbers and Letters, Printed Circuit Drafting Aids, OSHA approved Safety Signs.

BOBBINS—COIL FORMS

Manufacturers: COSMO — NIEMAND BROS.

Molded; Nylon®, Delrin®, Glass-filled Nylon, Spiral Wrapped Coil Forms — Kraft, Nomex®, Asbestos.

TERMINALS & LUGS

Manufacturers: ILSCO — VACO

Solderless Terminals and Connectors, Crimp and Solder Lugs to 2,000 MCM.

MOTOR PARTS

All types and manufacturers, carbon brushes, commutators, switches.

BALL BEARINGS

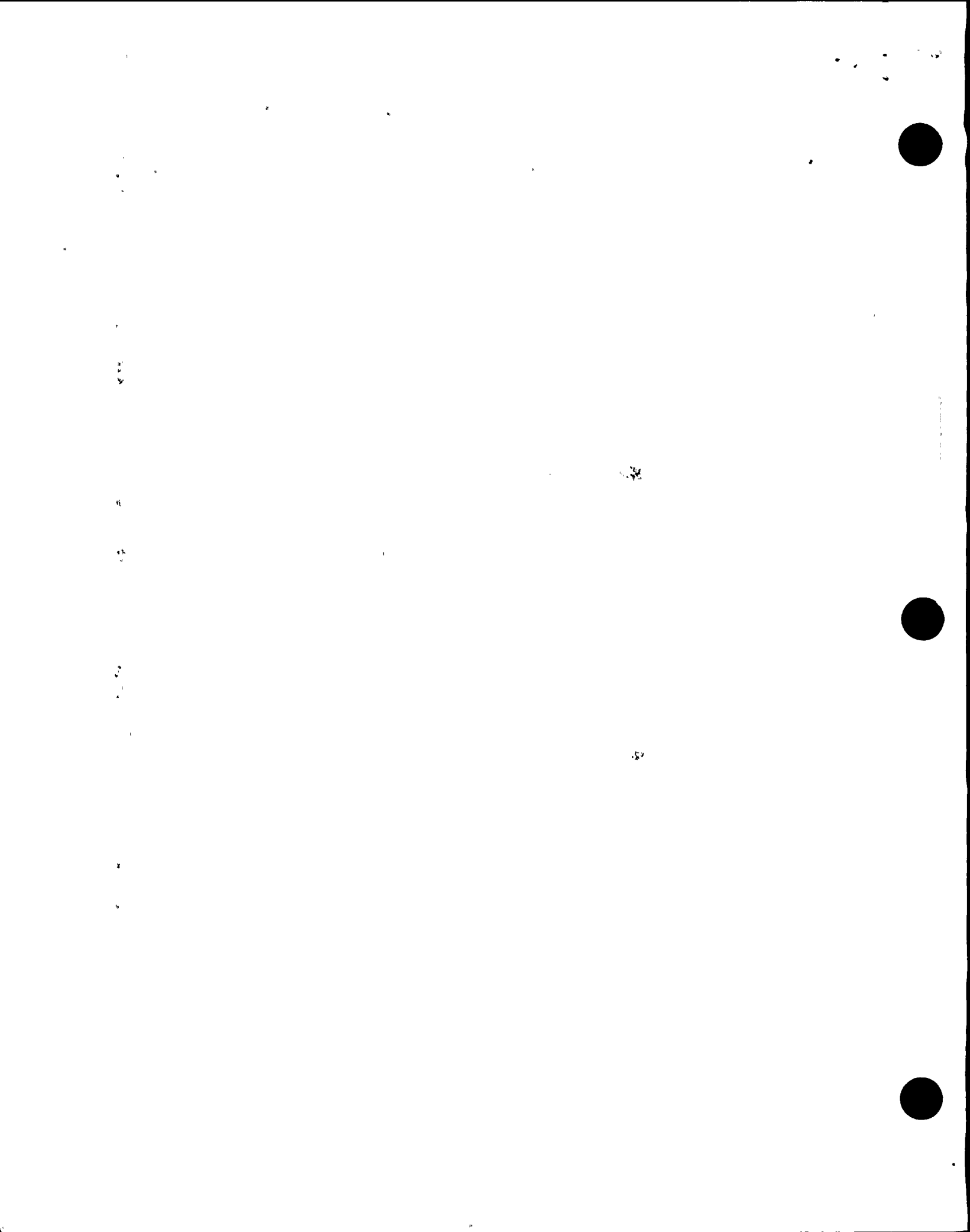
Manufacturer: NORMA FAG — STEYR — HOOVER — RHP

Light, medium, max, cartridge, angular contact, thrust.

AEROSOL PRODUCTS

Manufacturer: SPRAYON — DOLPH.

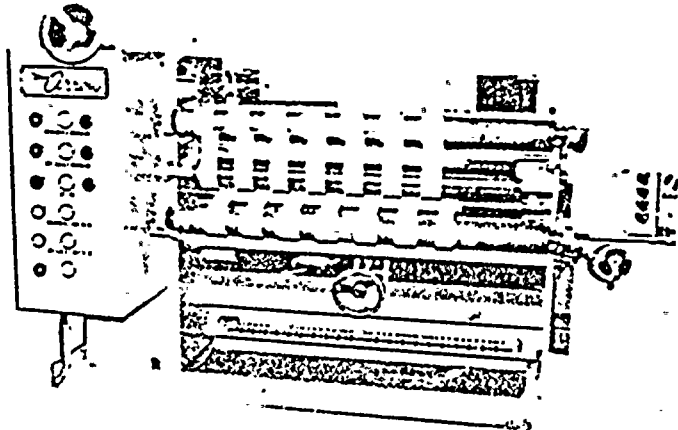
Enamels, Lacquers, Lubricants, Cleaners, Coatings.



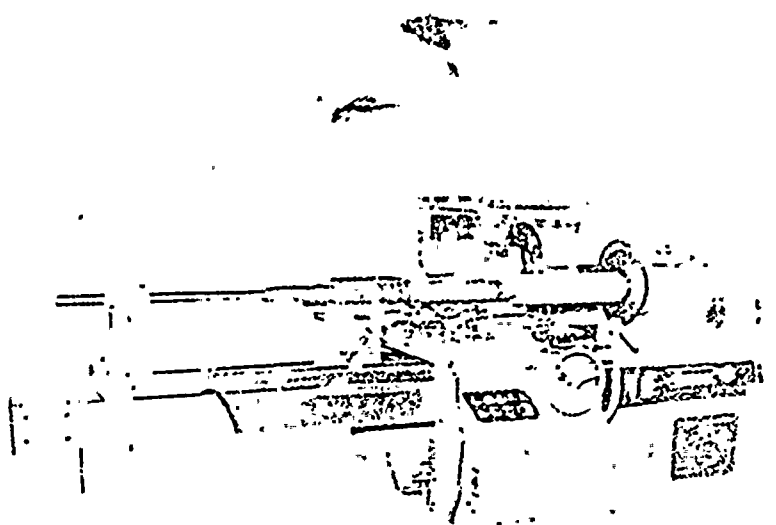


FABRICATION DEPARTMENT

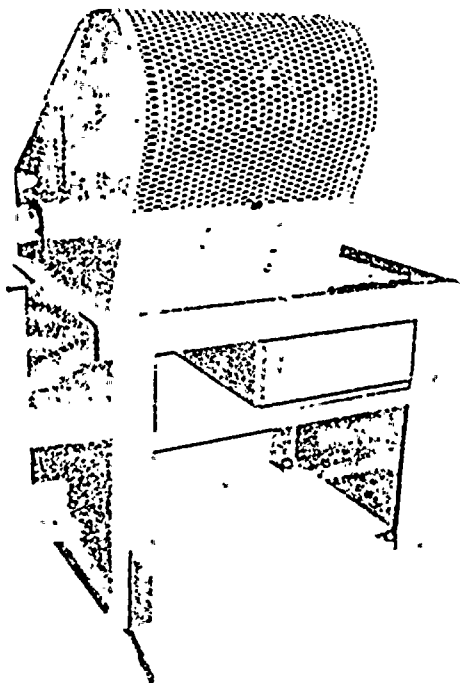
Centrally located in our Los Angeles facility, our new fabrication department enables us to extend our services into the field of materials conversion. We now offer Precision Slitting, Shearing, Rerolling, Cutting, etc. of a wide variety of electrical insulating materials.



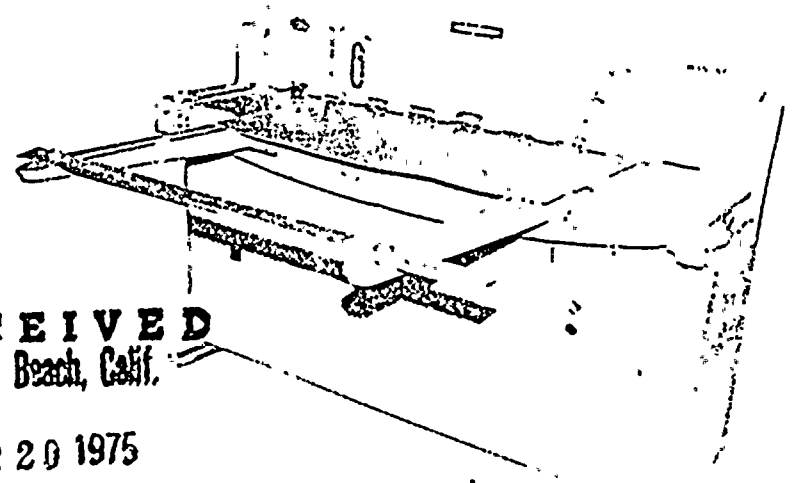
ARROW REWIND SLITTER



LEVER, AUTOMATIC INDEXING,
KNIFE SLITTER



ARTOS, HIGH PRODUCTION,
TUBING AND SLEEVING CUTTER



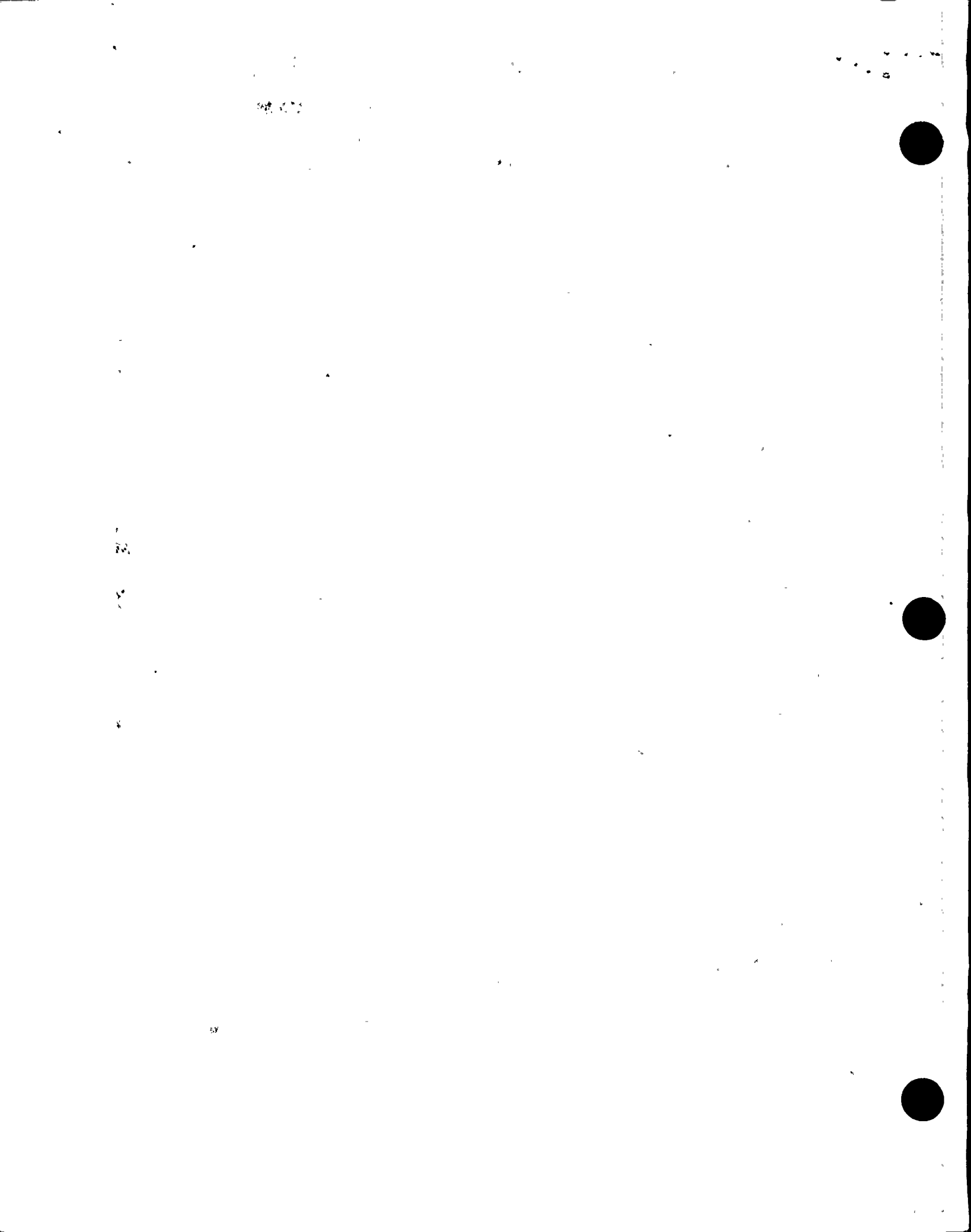
WYOMING HYDRAULIC SHEAR

RECEIVED
Avila Beach, Calif.

MAR 20 1975

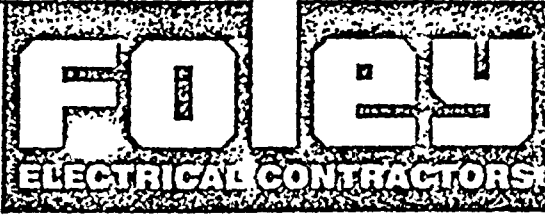
HOWARD P. FOLEY CO.

CALL US FOR YOUR MATERIALS CONVERSION NEEDS.



C.C.T.E.

95



March 11, 1975

Electrical Specialty Company
7244 Condor Street
Los Angeles, California 90040

RE: Quality Program

Gentlemen:

We would appreciate any information you could provide us on your Quality Program.

Would you please fill out the enclosed information sheet and return.

Yours very truly,

THE HOWARD P. FOLEY COMPANY

ORIGINAL SIGNED BY
LA MOYNE ADDLEMAN

La'Moyne E. Addleman
Project Manager

cc: R. Green
cc: J. Green

JG/sc

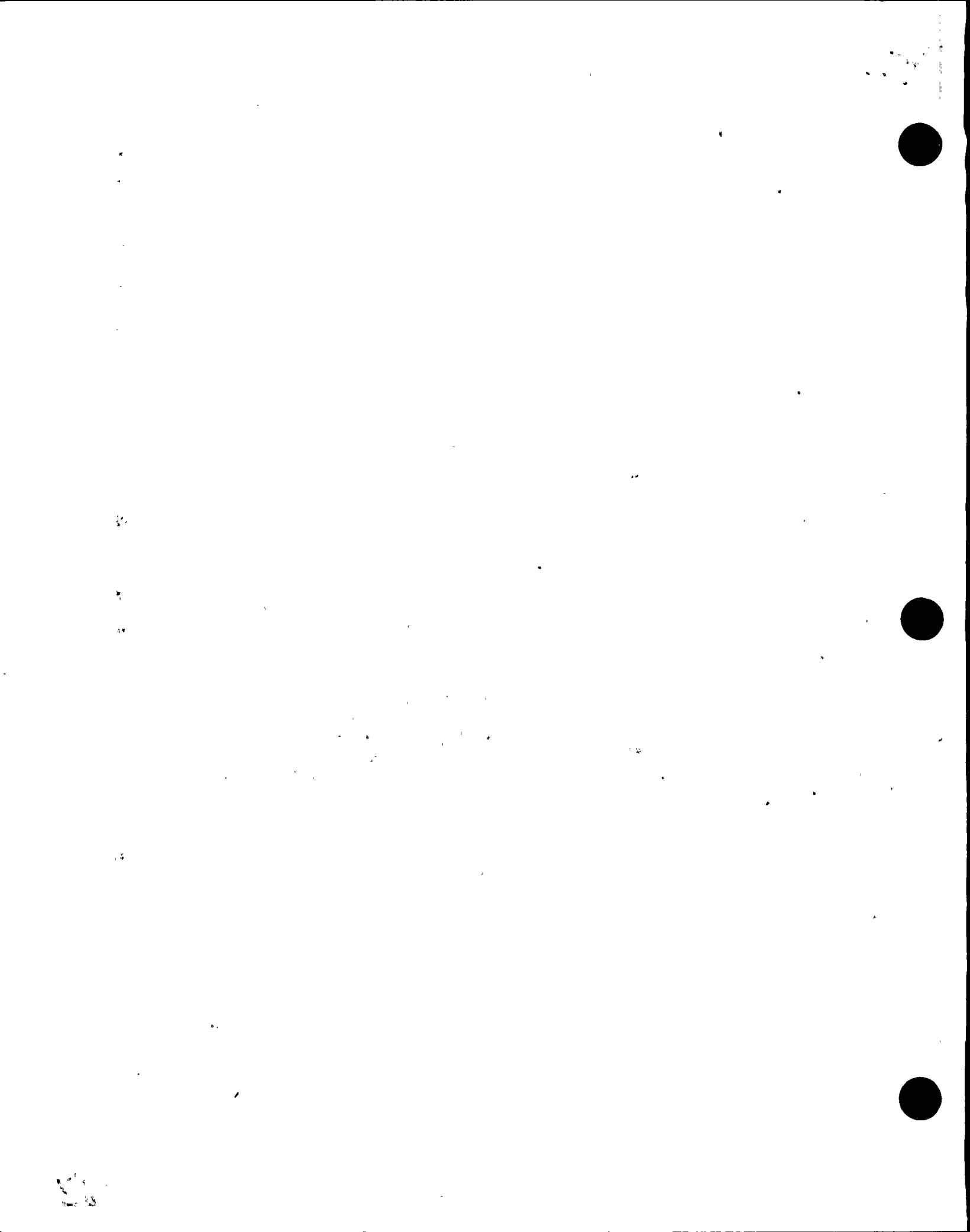
Attachment

THE
WARD P. FOLEY
COMPANY
P. O. BOX 327,
VILA BEACH, CALIF.
93424
. 805-595-2322

- Branches:
- SALT LAKE CITY, UTAH
- BALTIMORE, MARYLAND
- PHOENIX, ARIZONA
- HOUSTON, TEXAS
- MARTINEZ, CALIFORNIA
- MURGH, PENNSYLVANIA
- TAMPA, FLORIDA
- TUCSON, ARIZONA
- ORLEANS, LOUISIANA
- TOWN, PENNSYLVANIA
- PHIA, PENNSYLVANIA
- BURG, PENNSYLVANIA
- RICHMOND, VIRGINIA
- WASHINGTON, D.C.

257

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RECEIVED
QA-QC

Insulation SUPPLY CO.

19168 VAN NESS AVENUE • TORRANCE, CALIFORNIA 90501 • 213 320-9400

GLASS POLYESTER ROD

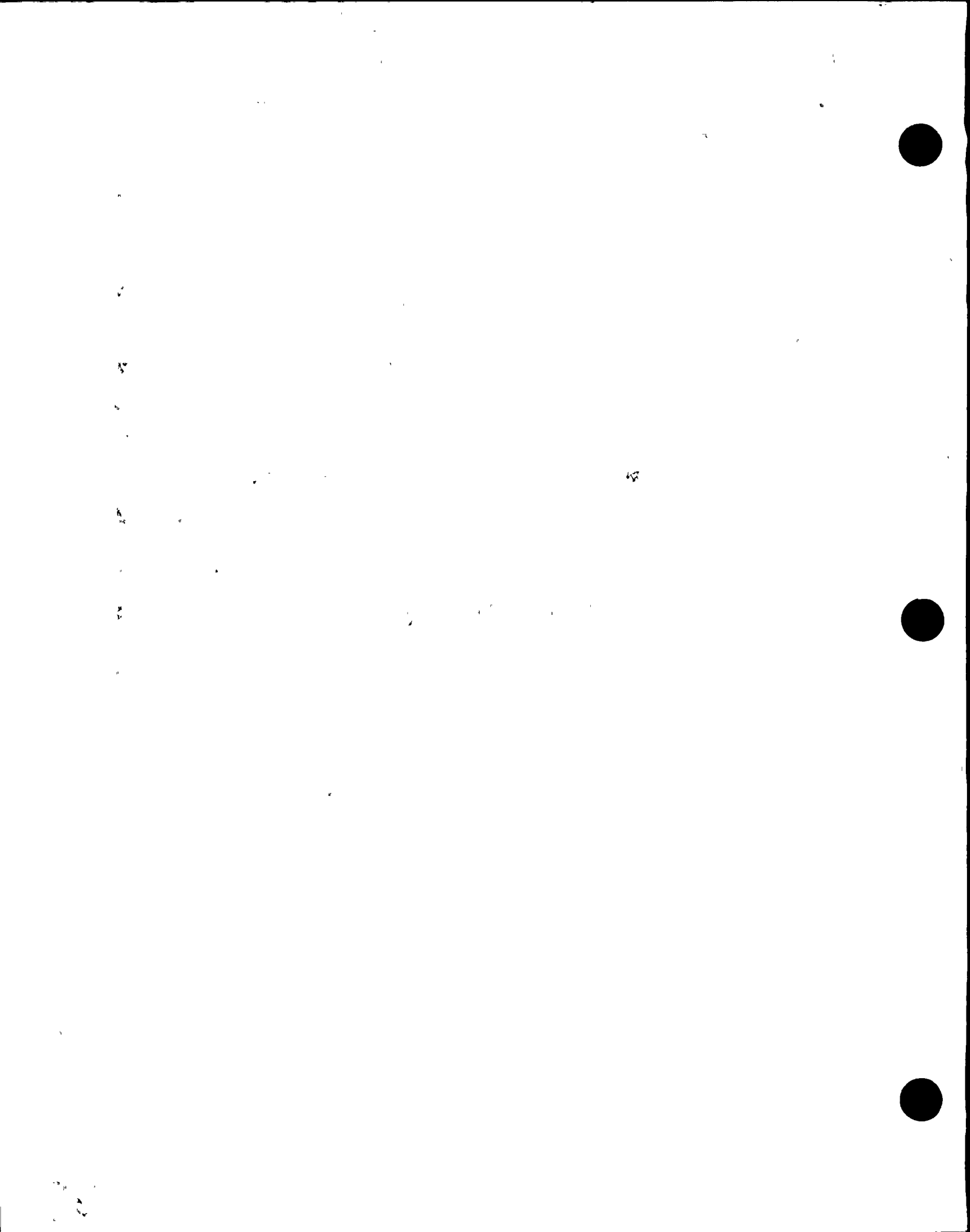
HOWARD D. TOLBY CO.
Avila Beach, Calif.

PHYSICAL PROPERTIES:

Flexural Strength	150,000 PSI
Flexural Modulus	4.9 X 10 ⁶
Tensile Strength	120,000 PSI
Tensile Modulus	5.0 X 10 ⁶
Compressive Strength	50,000 PSI
Compressive Modulus	3.5 X 10 ⁶
Elongation	1.6%
Impact Strength	40 Ft-lb/Inch of notch
Thermal Conductivity	2.10 BTU/Hr/Ft ² /°F/In.
Specific Heat	.22 BTU/Lb/°F
Rockwell Hardness (M)	121
Barcol Hardness	65
Specific Gravity	1.8
Water Absorbtion	.05%
Heat Distortion	325° F at 264 PSI

ELECTRICAL PROPERTIES:

Arc Resistance	100 KV @ 12 in. = no damage
Dielectric Strength	378 V/Mil
Dielectric Constant @ 60 CPS	6.9



THE HOWARD P. FOLEY COMPANY
P.G.&E. APPROVED LIST OF VENDORS

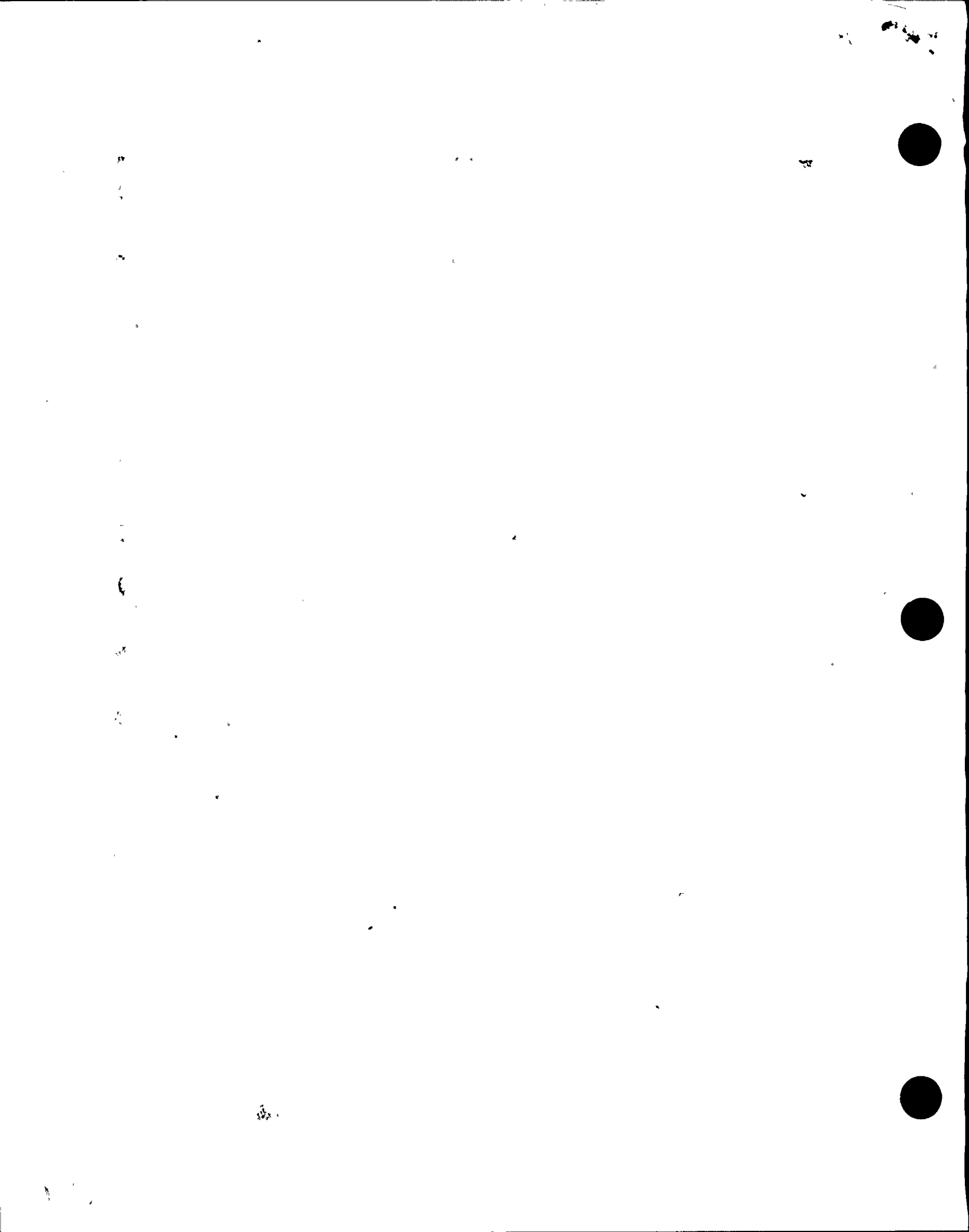
AMFAC	Electrical Class I Items
Baker Welding Supply	Weld Rod
-Contractor Building Supply (CBS)	Weld coupons, weld rod, weld products, steel ASTM-36, etc.
-Coast Welding Supply Company	Weld rod, welding products
DECO	Electrical Class I Items
Electric Supply Co. - Vallejo	Superior Strut and Hardware
Graybar Electric Company	Electrical Class I Items
-Hopper Mch. Work Inc.	Welding products, ASTM-A36 Steel
-M&S Pipe & Supply Company	Welding products, ASTM-A36 Steel
Westinghouse Electric Supply Co.	Husky-Burndy, cable tray
Added to vendor list after P.G.&E. approval not required	
Modern Industries	Nuts, bolts, misc. hardware, ASTM-A36 Steel
Robert S. Deal- Raychem	Scotchfil tape



100

VENDORS

<u>Vendor</u>	<u>Phone</u>	<u>Address</u>
AMFAC	925-9585 or Enterprise 1-6179	901 South Blosser Road P. O. Box 730 Santa Maria, CA 93454
BAKER WELDING SUPPLY	209-442- 0300	2760 S. East Avenue Fresno, CA 93720 P. O. Box 2309
COAST WELDING SUPPLY	925-8867	916 W. Betteravia Road Santa Maria, CA 93454
CONTRACTORS BUILDING SUPPLY (CBS)	543-6252	2923 S. Higuera Street S.L.O., CA 93401
DECO	544-7474	805 Capitolio Way P. O. Box 1445 S.L.O., CA 93406
ROBERT S. DEAL CORP.	415-941- 1081	985 Fremont Street P. O. Box 1134 Los Altos, CA 94022
ELECTRIC SUPPLY CO.- Vallejo	707-644- 7734	1650 Sears Point Road Vallejo, CA 94590
GIBBONS ELEC. CO.	408-249- 8550	2005 Grant Street Santa Clara, CA 95050 P. O. Box 63.
GRAYBAR ELEC. CO.	805-964- 7771	5360 Overpass Road P. O. Box 6279 Santa Barbara, CA 93105
HOPPER, INC.	325-9071	301 Monterey Street Bakersfield, CA
M&S PIPE & SUPPLY CO.	1-925- 0926	807 W. Main Street. P. O. Box 934 Santa Maria, CA 93454
WESTINGHOUSE ELECTRIC SUPPLY COMPANY		2260 Via DeMercadas Concord, CA 94520
MODERN INDUSTRIAL	925-9581	2660 Industrial Way Santa Maria, CA 93454



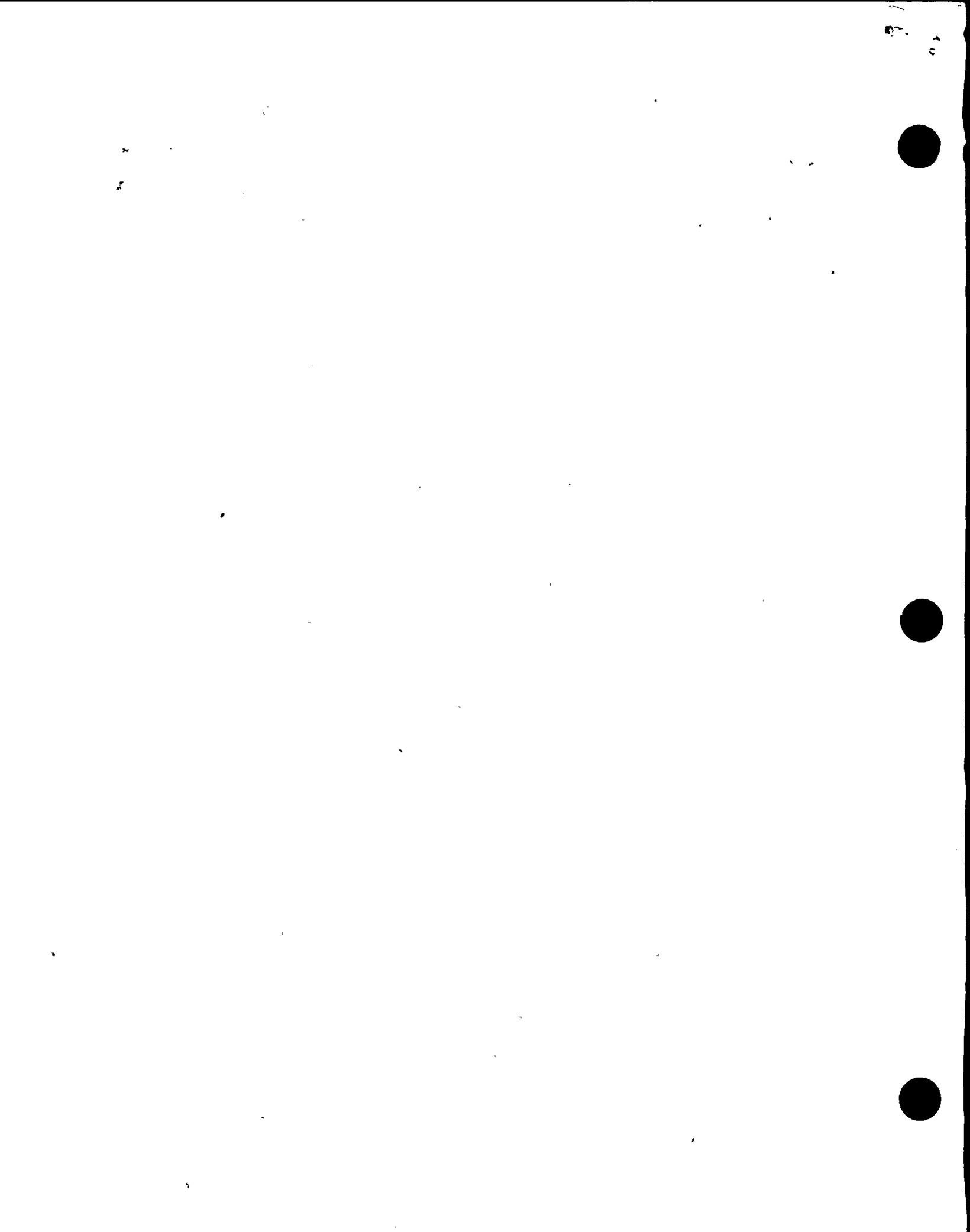
SUPPLIERS

Supplier

Phone
Number

Address

Supplier	Phone Number	Address
✓ COAST WELDING ✓		916 W. Betteravia Road Santa Maria, Ca.
✓ CONTRACTORS BUILDING SUPPLY ✓	543-6252	2923 S. Higuera St. San Luis Obispo, Ca.
✓ M & S PIPE AND SUPPLY CO. ✓	WA-50926	807 W. Main Santa Maria, Ca.
C. H. BULL CO.	415-871-8440	229 Utah Ave. South San Francisco, Ca.
✓ AMFAC ✓	925-9585	901 Blosser Rd. (P.O. Box 730) Santa Maria, Ca.
✓ DECO ✓	544-7474	805 Capitolio Way (P.O. Box 1445) San Luis Obispo, Ca.
✓ GRAY BAR ELECTRIC CO., INC. ✓	805-964-7771	5360 Overpass Rd. (P.O. Box 6279) Santa Barbara, Ca.
✓ ELECTRIC SUPPLY OF VALLEJO ✓		1650 Seats Point Rd. Vallejo, Ca.
GENERAL ELECTRIC SUPPLY CO.		5400 Hollis St. Emeryville, Ca.
WESTINGHOUSE ELECTRIC SUPPLY CO.		1290 Diamond Concord, Ca. 94520
CONSOLIDATED ELECTRIC		825 Challenge Dr. Concord, Ca. 94520
HOPPER (10 Cert Welders)	825-9071	301 Monterey St. Bakersfield, Ca.
HILTI ✓		14500 Doolittle Dr. San Leandro, Ca.
WELDERS SUPPLY <i>NO LONGER IN BUSINESS</i>	922-8259	2337 S. Broadway Santa Maria, Ca.
LE ELECTRIC SUPPLY	209-523-7771	101 S. 7th Street Modesto, Ca.



Supplier

Phone
Number

Address

MAG-TROL DISTRIBUTORS INC.

213-685-9310

5901 E. Shiela Ave.
Los Angeles, Ca. (Motor Controls)

KANER CO. INC.

213-746-5940

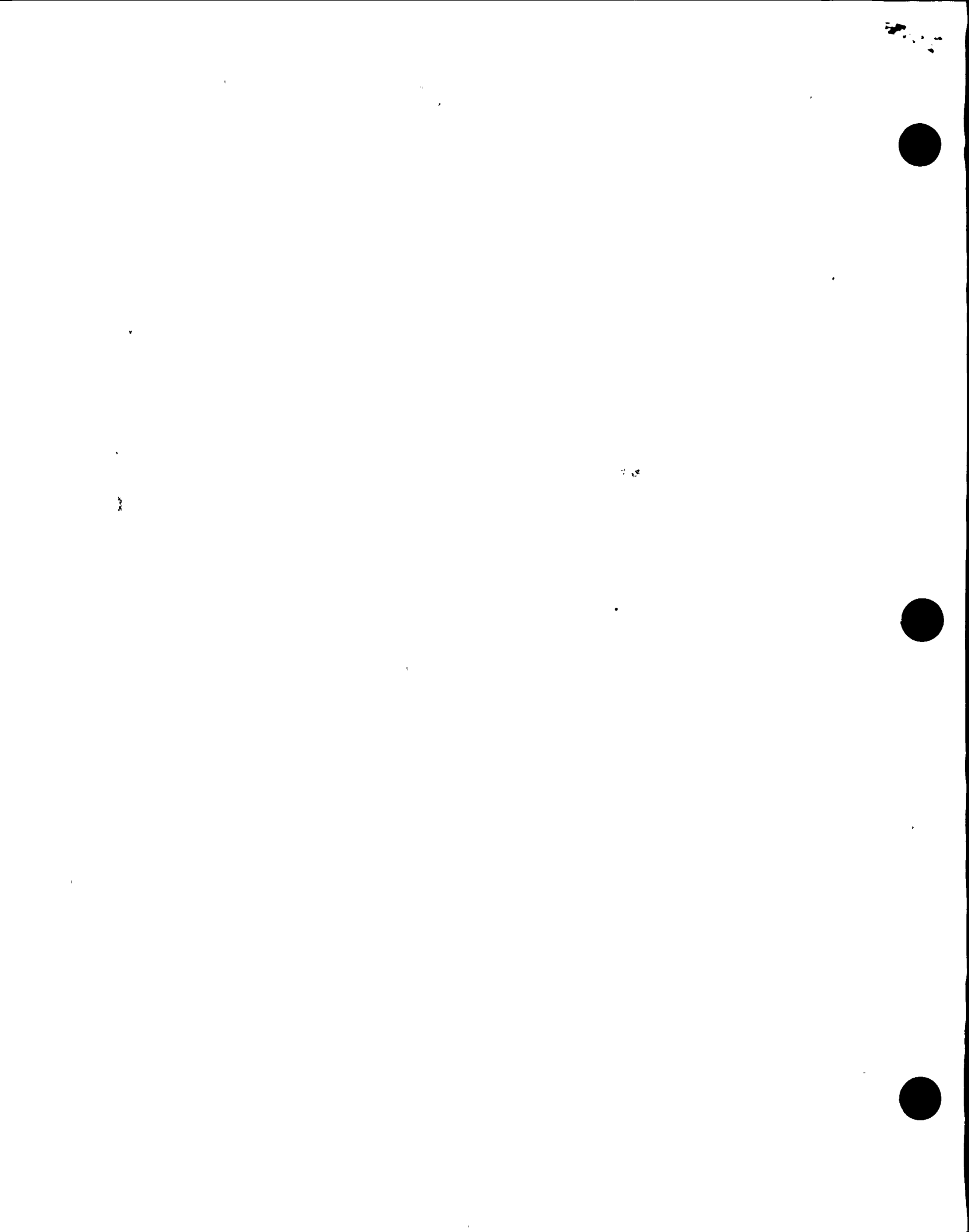
516 E. 15th Street
Los Angeles, Ca. (Ramset Products)

✓ BAKERS WELDING SUPPLY CO.

209-442-0300

2760 S. East Ave.
Fresno, Ca.

SUPERSEDED BY
NAME new list DATE 6-20-1976
EB



Welding Products

Weld Rod
Coupon Material Etc

C.B.S.
Welding Coupons
Certs to ASTM A36

NEED BAKER Supply Co.
DODD - Weld Rod



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THE HOWARD P. FOLEY COMPANY
SUPPLIER EVALUATION

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Name of Shop or Supplier: Coast Welding

Address: 916 West Betteravia Santa Maria, CA Phone: WA5-8867

Total Personnel: 23 Total Personnel in Quality Program: 5

Shop Superintendent: Stan Lewis

Head of Quality Program: Steve Reasoner Receiving & Records

EVALUATION BY PAST PERFORMANCE: Good

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? No ADEQUATE? No

QUALITY INSPECTION PROVIDED? Yes AT WHAT STAGE OF WORK? on receipt and prior to shipment.

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES? No

ARE WORKERS QUALIFIED? (State Qualifications) Yes - Average 6 to 10 years with Coast.

LIST OF MACHINERY AVAILABLE: Hydrogen Compressors & Analyzers, Acetylene Cooling Tanks - Welding Machines, Cutting torches, Pumps, Holding Tanks - Trucks

TYPE OF WORK PERFORMED: Receiving & Testing of Weld. rod filling of Oxygen, Nitrogen Acetylene, Argon & Storage.

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WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)
*Very Good - Receiving inspections
Testing of Weld Rod - filling of Oxygen
Nitrogen & Acetylene Tanks*

IS SHOP CLEAN AND ORDERLY? *Yes - Class I Rod and
Materials segregated and well protected and
identified as to batch and lot number.*

DOES STOCK HAVE TRACEABILITY, CERTS.? *Yes to Purchase order
number per batch, Heat & lot.
All certs kept on file.*

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?
*Yes Yes
Test Lab Equiped for Weld Rod Tests*

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?
40,000 square ft. Yes

THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes No

J. J. Green
Q.A. Engineer/Inspector Date 2-10-74

Approved by: _____
Q.A. Supervisor Date _____

Remarks: *Found Vendor well Qualified to supply
all welding products.*

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6. List the processes performed by your company (heat treating, machining, die casting, anodising, non-destructive testing, strictly warehousing, assembling, etc?).

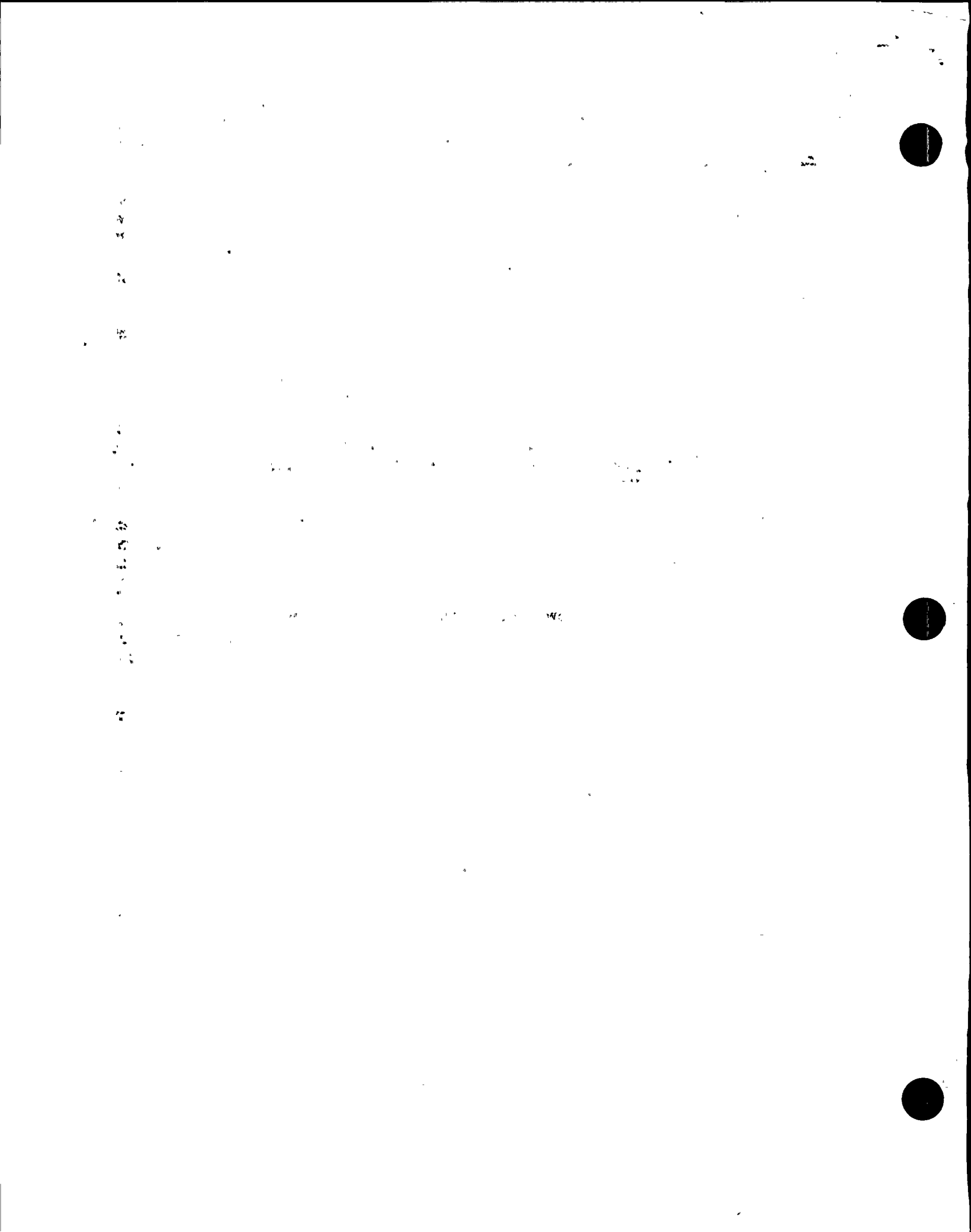
Filling and storage of Acetylene, Oxygen
Argon & Propane - supplier of Weld rod,
bake ovens, Welders & Equipment.

SECTION B---RECEIVING INSPECTION

	YES	NO	N/A
1. Are all incoming materials subject to inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are test reports and/or certifications required of your source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are copies of purchase orders and specifications available to receiving inspection personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are nuclear contract numbers and applicable specifications listed on purchase orders?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are materials released for production prior to receipt of certifications or test reports? If answer is YES, please explain.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SECTION C---RAW MATERIALS CONTROL

	Applicable <input checked="" type="checkbox"/> Non-Applicable <input type="checkbox"/>		
	YES	NO	N/A
1. Are all raw materials identified as to lot, purchase order number, shipment number, or by other means to assure traceability?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is inspection status clearly indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



YES NO N/A

3. Is material controlled to prevent wrong material or excessive amounts from being issued?

YES NO N/A

4. Are all materials subject to deterioration age dated and issued on a "First-IN-First-Out" basis?

YES NO N/A

5. Can cure dates be furnished on rubber products?

YES NO N/A

SECTION D---TOOL AND GAGE CONTROL

Applicable
Non-Applicable

YES NO N/A

1. Are written procedures established to control the identification, calibration and frequency of calibration of tools and gages?

YES NO N/A

2. Are tools and gages identified with serial numbers or by other means to effect traceability to calibration records?

YES NO N/A

3. Is date of calibration, by whom, and due date of next calibration indicated by label or some other means?

YES NO N/A

4. Are all the requirements of ASME or equal complied with?

YES NO N/A

SECTION E---IN-PROCESS INSPECTION

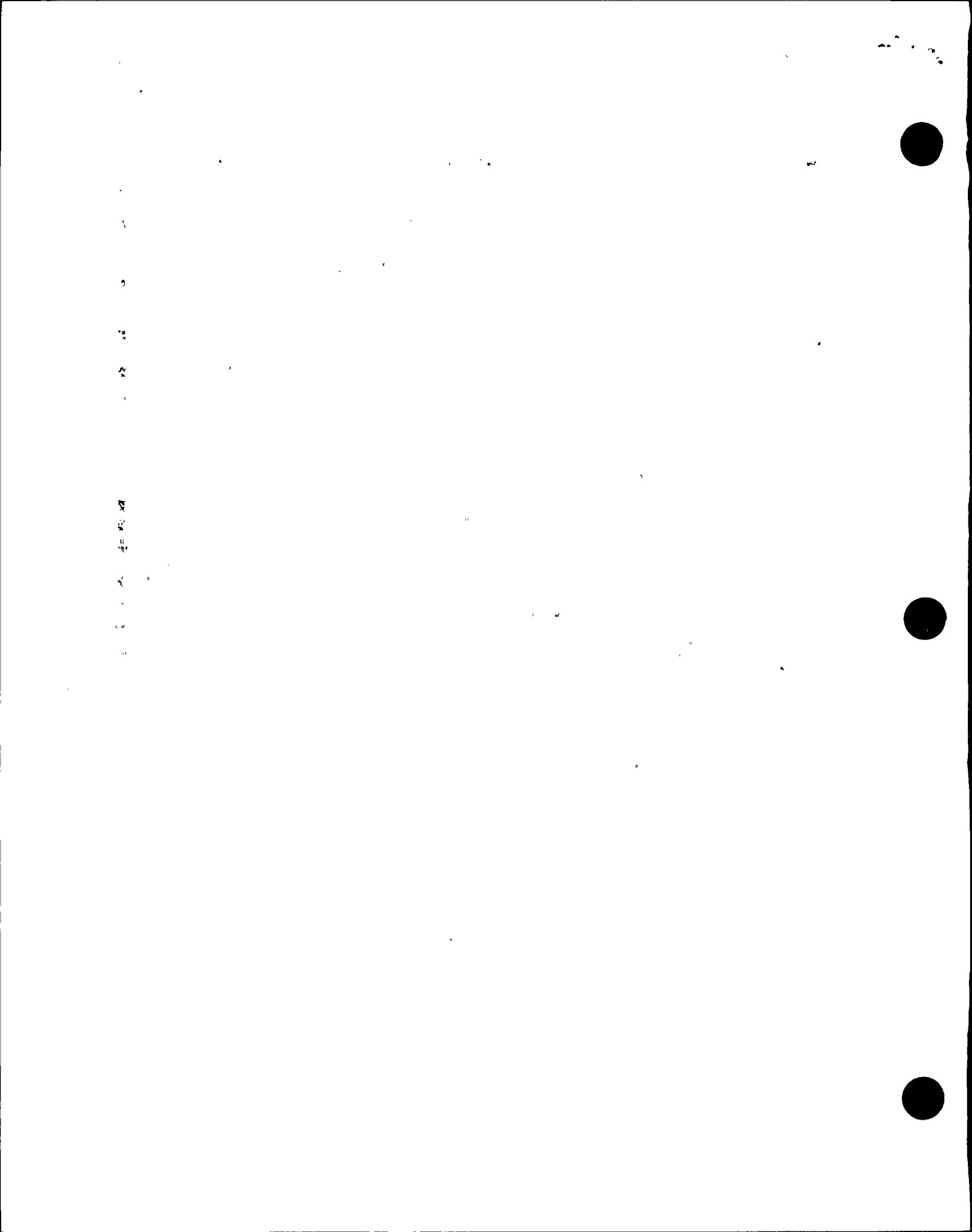
Applicable
Non-Applicable

1. Is first article inspection performed by Q. C.?

YES NO N/A

2. Is floor inspection performed by Q. C.?

YES NO N/A



SECTION F---FINAL INSPECTION

Applicable
 Non-Applicable _____

	YES	NO	N/A
1. Have you developed your own sampling procedure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Do inspection records show sample size?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is 100% inspection used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Are certain characteristics considered more critical than others?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are procedures set up to give emphasis in inspection to these characteristics?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Are all applicable customer requirements adhered to in final inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Does final inspection cover all drawing and specification characteristics regardless of any floor or first article inspection functions performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Are special packaging and marking requirements under the surveillance of final inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION G---NON-CONFORMING MATERIAL

	YES	NO	N/A
1. Is non-conforming material segregated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is non-conforming material identified as such with variations or defects listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Do you have a procedure set up for handling material review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are corrective action procedures established and enforced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

100



100

100

105

COPY

DC
4/22/76

02-0224
CC VT
CC ~~ET~~
CC PF
CC JB

P. O. Box 117
Avila Beach, CA 93424

Rec'd
4-22-1976
11 A.M.
[Signature]

April 20, 1976

The Howard P. Foley Company
P. O. Box 327
Avila Beach, CA 93424

Attention: L. Addleman
Project Manager

Diablo Canyon Project
Specification 8E02
Your Letter Dated 4/14/76
10th Addendum to Qualified
Suppliers Log

TOM HASSERMAN
MODERN INDUSTRIAL

Gentlemen:

Suppliers or vendors that sell standard catalog materials specified in the Specification, drawings or that are approved under Section 1, Paragraph 10 of the Specification does not require P G and E approval.

Suppliers or vendors that fabricate, repair, or maintain non catalog materials or items require P G and E approval.

Your QA procedure QCP-2 should be revised accordingly.

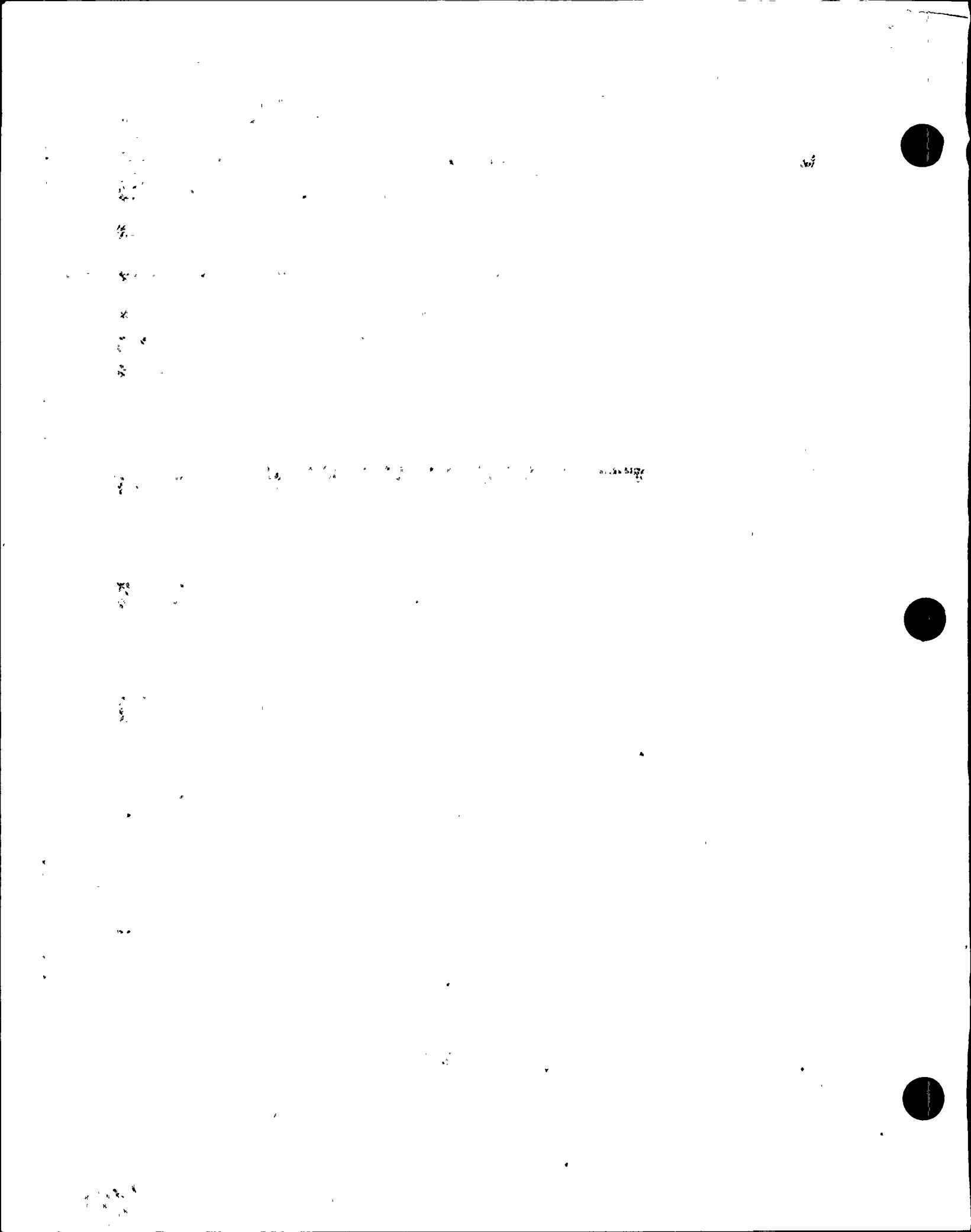
If you have any questions please contact P. J. Nelson.

Sincerely,

(SIGNED) C. K. MAXFIELD
C. K. Maxfield
Project Superintendent

RECEIVED
QA-QC
APR 22 1976

APR 22 1976
HOWARD P. FOLEY CO.
HOWARD P. FOLEY CO.
Avila Beach, Calif.



102
THE HOWARD P. FOLEY COMPANY

SUPPLIER EVALUATION

Name of Shop or Supplier: MODERN INDUSTRIALS ENTERPRISE 1-9708
Address: 2660 INDUSTRIAL PKWY SANATA MARIA CA 93454 Phone: 925-9581
Total Personnel: 4 Total Personnel in Quality Program: 3
Shop Superintendent: WAYNE KOENS
Head of Quality Program: _____

EVALUATION BY PAST PERFORMANCE:

NEW

DOES THE SUPPLIER HAVE A QUALITY ASSURANCE MANUAL? ADEQUATE?

NA

IS QUALITY INSPECTION PROVIDED? AT WHAT STAGE OF WORK?

NA

IS WORK PERFORMED ACCORDING TO WRITTEN PROCEDURES?

NA

ARE WORKERS QUALIFIED? (State Qualifications)

NA

LIST OF MACHINERY AVAILABLE:

NA

TYPE OF WORK PERFORMED:

NA



217

218

219

220

WHAT IS THE QUALITY OF WORK IN PROGRESS? (Comment on work observed)

NA

IS SHOP CLEAN AND ORDERLY?

YES

DOES STOCK HAVE TRACEABILITY, CERTS.?

NA

ARE INSTRUMENTS CALIBRATED? TRACEABILITY RECORDS?

NA

SHOP SIZE IN SQUARE FEET? DOES SHOP CONFORM TO STATE SAFETY ORDERS?

8,640

YES

THE SHOP QUALIFIED TO DO THE WORK PROPOSED? Yes ___ No ___

NA

Q.C.A. Engineer/Inspector

Date

Approved by: Vicky Tennyson
Q.C.A. Supervisor

4-23-76
Date

Remarks:

See P&E Letter dated 4-20-1976
B

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6. List the processes performed by your company (heat treating, machining, die casting, anodising, non-destructive testing, strictly warehousing, assembling, etc.).

WAREHOUSING FOR RESALE

SECTION B---RECEIVING INSPECTION

	YES	NO	N/A
1. Are all incoming materials subject to inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are test reports and/or certifications required of your source?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are copies of purchase orders and specifications available to receiving inspection personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are nuclear contract numbers and applicable specifications listed on purchase orders?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are materials released for production prior to receipt of certifications or test reports? If answer is YES, please explain.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SECTION C---RAW MATERIALS CONTROL

Applicable
Non-Applicable

	YES	NO	N/A
1. Are all raw materials identified as to lot, purchase order number, shipment number, or by other means to assure traceability?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is inspection status clearly indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10/1

10/2

10/3

10/4

10/5

10/6

10/7

10/8

10/9

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10/11

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10/14

10/15

10/16

10/17

10/18

10/19

10/20

10/21

10/22

10/23

10/24

10/25

10/26

10/27



YES NO N/A

3. Is material controlled to prevent wrong material or excessive amounts from being issued?

✓ _____

4. Are all materials subject to deterioration age dated and issued on a "First-IN-First-Out" basis?

✓ _____

5. Can cure dates be furnished on rubber products?

✓ _____

SECTION D---TOOL AND GAGE CONTROL

Applicable _____
Non-Applicable _____

YES NO N/A

1. Are written procedures established to control the identification, calibration and frequency of calibration of tools and gages?

_____ ✓

2. Are tools and gages identified with serial numbers or by other means to effect traceability to calibration records?

✓ _____

3. Is date of calibration, by whom, and due date of next calibration indicated by label or some other means?

✓ _____

4. Are all the requirements of ASME or equal complied with?

✓ _____

SECTION E---IN-PROCESS INSPECTION

Applicable _____
Non-Applicable ✓

1. Is first article inspection performed by Q. C.?

_____ ✓

2. Is floor inspection performed by Q. C.?

_____ ✓

✓
A
B
C
D
E
F
G
H
I
J
K
L
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N
O
P
Q
R
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U
V
W
X
Y
Z

FROM B--M--L--S--E--W--O--R--D

THE TO BY

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of the names of the members of the committee who have been elected to the office of chairman.

3. The third part of the document is a list of the names of the members of the committee who have been elected to the office of secretary.

4. The fourth part of the document is a list of the names of the members of the committee who have been elected to the office of treasurer.

5. The fifth part of the document is a list of the names of the members of the committee who have been elected to the office of clerk.

6. The sixth part of the document is a list of the names of the members of the committee who have been elected to the office of reporter.

7. The seventh part of the document is a list of the names of the members of the committee who have been elected to the office of reader.

8. The eighth part of the document is a list of the names of the members of the committee who have been elected to the office of scribe.

THE TO BY

9. The ninth part of the document is a list of the names of the members of the committee who have been elected to the office of secretary.

10. The tenth part of the document is a list of the names of the members of the committee who have been elected to the office of treasurer.

11. The eleventh part of the document is a list of the names of the members of the committee who have been elected to the office of clerk.

12. The twelfth part of the document is a list of the names of the members of the committee who have been elected to the office of reporter.

SECTION F---FINAL INSPECTION

Applicable _____
 Non-Applicable ✓

	YES	NO	N/A
1. Have you developed your own sampling procedure?	_____	_____	<u>✓</u>
2. Do inspection records show sample size?	_____	_____	<u>✓</u>
3. Is 100% inspection used?	_____	_____	<u>✓</u>
4. Are certain characteristics considered more critical than others?	_____	_____	<u>✓</u>
5. Are procedures set up to give emphasis in inspection to these characteristics?	_____	_____	<u>✓</u>
6. Are all applicable customer requirements adhered to in final inspection?	_____	_____	<u>✓</u>
7. Does final inspection cover all drawing and specification characteristics regardless of any floor or first article inspection functions performed?	_____	_____	<u>✓</u>
8. Are special packaging and marking requirements under the surveillance of final inspection?	_____	_____	<u>✓</u>

SECTION G---NON-CONFORMING MATERIAL

	YES	NO	N/A
1. Is non-conforming material segregated?	_____	_____	<u>✓</u>
2. Is non-conforming material identified as such with variations or defects listed?	_____	_____	<u>✓</u>
3. Do you have a procedure set up for handling material review?	_____	_____	<u>✓</u>
4. Are corrective action procedures established and enforced?	_____	_____	<u>✓</u>

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Small cluster of illegible characters at the bottom left.

