

2. AMENDMENT/MODIFICATION NO. 001	3. EFFECTIVE DATE June 2, 1999	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY Bureau of Reclamation Lower Colorado Region P.O. Box 61470 Boulder City NV 89006-1470	CODE LC-3113	7. ADMINISTERED BY (If other than Item 6)	CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP code)	(✓)	9A. AMENDMENT OF SOLICITATION NO. 99-SQ-30-0001
	✓	9B. DATED (SEE ITEM 11) May 17, 1999
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [X] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing Items 8 and 15, and returning 1 copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. **IMPORTANT:** Contractor [] is not [] is required to sign and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)

Project Title: Hydro Turbine Facing Plates and Bushings, Boulder Canyon Project, Hoover Dam, Arizona-Nevada

Purpose of Amendment: The purpose of this amendment is to make minor revisions to the specifications in response to questions submitted by prospective offerors.

Receipt of Quotes: The date for receipt of quotes remains June 16, 1999. The time for receipt of quotes remains 4 p.m., local time. The place for receipt of quotes remains the Bureau of Reclamation, Lower Colorado Regional Office, Boulder City, Nevada (see block 9 of the "Solicitation/Contract/Order for Commercial Items," Standard Form 1449).

Acknowledgment: See block 11 above regarding how to acknowledge this amendment. The acknowledgment must be received at the place designated for receipt of quotes (see block 9 of the "Solicitation/Contract/Order for Commercial Items," Standard Form 1449).

Quote Modification: See block 11 above if you have submitted your quote and now desire to modify it or withdraw it.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

Description of the Changes:

1. In response to questions that have been submitted by potential offerors regarding tolerances and machining, minor revisions to the specifications have been made.

Instructions:

Remove

Replace with Revised

Pages 15 and 16

Pages 15 and 16

PART III
STATEMENT OF WORK

SECTION 1.1 -- GENERAL

1.1.1. The Requirement

It is required that the contractor furnish the following Unit A3/A4 turbine parts, in accordance with the contract provisions and clauses, these specifications, and the drawings:

- a. Four (4) complete sets, 24 pieces total, of stainless steel facing plates, Allis-Chalmers Drawing No. 02-400-591.
- b. Forty-eight (48), top plate, bronze bushings, Allis-Chalmers Drawing No. 02-200-809.
- c. Forty-eight (48), bottom plate, bronze bushings, Allis-Chalmers Drawing No. 02-200-774
- d. Forty-eight (48), wicket gate, bronze bushings, Reclamation Drawing No. 45-301-7182
- e. Seven hundred forty (740), stainless steel, special removable-head shoulder screws, Reclamation Drawing No. 45-301-7185

1.1.2. Shipping

- a. The Bureau of Reclamation shall furnish the Contractor, F.O.B. to the Contractor's plant site, one complete set of facing plates for use as templates and one used fillet head screw for determining final thread dimensions of the special break-off screws.
- b. The contractor shall return the completed facing plates, top bushings, bottom bushings, wicket gate bushings, screws, and templates to the Bureau of Reclamation, F.O.B. Hoover Dam Warehouse, Boulder City, NV 89006.

SECTION 2.1 -- MATERIALS

- a. Facing plates -- ASTM A240-97a, Type 304L, 1.5-inch plate, stainless steel.
- b. Top, bottom, and wicket gate bushings -- UNS C93700 (ASTM E527-83) bronze.
- c. Screws -- ASTM A193-97a, Type 304 stainless steel.

SECTION 3.1 -- DIMENSIONS AND TOLERANCES

3.1.1. Facing plates

The contractor shall furnish and machine each set of facing plates in accordance with the drawings and these specifications:

- % a. Inside diameter = $160.25 \pm .010$ inches, final finishing in the field by the Government to match runner.
- % b. Outside diameter = $202.25 \pm .010$ inches finished.
- c. Thickness = 1.250 inches $+ .000"/- .002"$, parallel= $.006$ inch, flatness= $.006$ inch, finish= 63μ inch, ANSI B46.1-95.
- d. Edges square (no bevels or chamfers, etc.).
- e. Ends - bevel 45° , top and sides for welding in field.
- f. Twenty-four (24) - 10-inch wicket gate holes, final finishing in field by the Government.
- g. One hundred eighty (180) - 1-1/16-inch bolt holes with counterbores.
- h. Omit 12 eyebolt holes with counterbores.

3.1.2. Bushings

The contractor shall furnish and machine the bushings in accordance with the attached drawings. **Final machining will be done in the field to match the machine.**

3.1.3. Screws

The contractor shall furnish and fabricate the special removable-head shoulder screws in accordance with the drawings and these specifications:

- a. Approximate size -- 3/4 inch by 3-3/8 inches long, special break-off. Final thread dimensions will be determined from a used screw which will be provided to the contractor after disassembly of a unit, on or about October 15, 1999.
- b. ASTM F593-95 and F837-91, Group 1, Rockwell hardness B74 (ASTM E18-97a).

SECTION 4.1 -- PAYMENT

4.1.1. Payment

Payment for the facing plates, bushings, and screws shall be made at the respective unit prices bid therefor in the schedule, which price shall include the cost of materials, equipment,