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CITY COUNCIL MEETING  
MARCH 14, 1984

21

AWARD - PURCHASE  
OF PADMOUNT  
TRANSFORMERS

Council was apprised that the following bids had been received for ten 50 KVA and twenty 75 KVA single-phase and one 500 KVA three-phase padmount transformers:

SEE PAGE 3

RES. NO. 84-032

On recommendation of the City Manager, Council adopted Resolution No. 84-032 awarding the bid for the purchase of this equipment as follows:

- |                 |                 |             |
|-----------------|-----------------|-------------|
| 1. Single-Phase | McGraw-Edison   | \$73,280.20 |
| 2. Three-Phase  | RTE Corporation | \$ 7,823.86 |

# COUNCIL COMMUNICATION

TO: THE CITY COUNCIL

DATE

NO.

FROM: THE CITY MANAGER'S OFFICE

March 15, 1984

SUBJECT: PURCHASE OF PADMOUNT TRANSFORMERS (UD-E84-1)

On Tuesday, March 13, 1984, bids were received for ten 50 KVA and twenty 75 KVA single-phase and one 500 KVA three-phase padmount transformers. The transformers will be utilized to serve loads within the following developments,

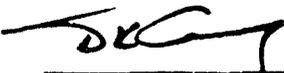
Lakeshore Village, Units #5, 6 & 7  
Park West, Units #2 & 3  
Noma Ranch  
Summerfield  
Meadows  
Wine Country Plaza

and to maintain an inventory of transformers for other needs, as they develop.

Based on design data supplied by the bidders, the life-cycle cost of transformer losses has been evaluated. Column 'B' is the dollar value associated with these losses. Based on minimum total life-cycle cost of the transformers, it is recommended that the bid be awarded to the lowest bidder within each transformer category, namely:

- |                  |                                   |             |
|------------------|-----------------------------------|-------------|
| 1. Single-phase: | McGraw-Edison Co., Burlingame, CA | \$37,280.20 |
| 2. Three-phase:  | RTE Corporation, Portland, OR     | 7,823.86    |

The estimate for this purchase was \$48,000.

  
\_\_\_\_\_  
David K. Curry  
Utility Director

Attach.

RESOLUTION NO. 84-032

A RESOLUTION AWARDING THE BID FOR THE PURCHASE OF  
10 50 KVA AND 20 75 KVA SINGLE-PHASE AND ONE 500  
KVA THREE-PHASE PADMOUNT TRANSFORMERS

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened by the City Clerk of this City on March 13, 1984 at 11:00 a.m. for the Contract for Padmount Transformers as described on Exhibit "A" attached hereto. in

WHEREAS, said bids have been compared, checked and tabulated and a report thereof filed with the City Manager as follows:

<u>BIDDER</u>	<u>50 KVA SINGLE PHASE</u>	<u>75 KVA SINGLE PHASE</u>	<u>500 KVA THREE PHASE</u>
McGraw Edison	\$18,953.40	\$47,997.80	\$16,603.94
RTE Corp.	\$19,951.60	\$57,390.20	\$13,544.21
G.E. Supply	\$21,120.90	\$53,640.40	\$15,343.59
Square D	No Bid	No Bid	No Bid

WHEREAS, the City Manager recommends that award be made to the low bidders, McGraw Edison in the amount of \$37,280.20 ('A' price as shown on attached exhibit) for the Single Phase Padmount Transformers, and RTE Corporation in the amount of \$7,823.86 ('A' price as shown on attached exhibit) for the Three Phase Padmount Tranformer.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Lodi that award of contract for 10 50 KVA AND 20 75 KVA Single-phase and one 500 KVA Three-phase padmount transformers be and the same is hereby made to McGraw Edison in the amount of \$37,280.20 and RTE Corp. in the amount of \$7,823.86.

Dated: March 21, 1984

I hereby certify that Resolution No. 84-032 was passed and adopted by the City Council of the City of Lodi in a regular meeting held March 21, 1984 by the following vote:

Ayes: Councilmembers - Murphy, Snider, Pinkerton,  
Reid, & Olson (Mayor)

Noes: Councilmen - None

Absent: Councilmen - None

*Alice M. Feimche*  
ALICE M. FEIMCHE  
City Clerk

PADMOUNT TRANSFORMER BID EVALUATION

(UD-E84-1)

Supplier	30 KVA - Single Phase				75 KVA - Single Phase				500 KVA - Three Phase			
	'A' Price w/tax	'B' Cost of Losses	'A' + 'B' Life-Cycle Cost	Estimated Delivery (Weeks)	'A' Price w/tax	'B' Cost of Losses	'A' + 'B' Life-Cycle Cost	Estimated Delivery (Weeks)	'A' Price w/tax	'B' Cost of Losses	'A' + 'B' Life-Cycle Cost	Estimated Delivery (Weeks)
McGraw-Edison Co. Burlingame, CA	<u>\$10,695.40</u>	\$8,258.00	\$18,953.40	22	<u>\$26,584.80</u>	\$21,413.00	\$47,997.80	22	\$8,341.14	\$8,262.80	\$16,603.94	20
RTE Corporation Portland, OR	\$11,723.60	8,228.00	19,951.60	20-22	33,941.20	23,449.00	57,390.20	20-22	<u>7,823.85</u>	5,720.33	13,544.21	16
General Elec. Supply Co. Emeryville, CA	13,557.40	7,563.50	21,120.90	25-27	32,478.40	21,162.00	53,640.40	25-27	8,632.64	6,710.95	15,343.59	15-16
Square-D Company Airway Heights, WA	No Bid				No Bid				8,805.42	5,323.45	14,128.87	--

# COUNCIL COMMUNICATION

TO: THE CITY COUNCIL

FROM: THE CITY MANAGER'S OFFICE

DATE

February 1, 1984

NO.

SUBJECT: SPECIFICATIONS FOR THE PURCHASE OF PADMOUNT TRANSFORMERS (UD-E84-1)

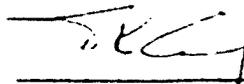
Specifications for the purchase of ten 50 KVA and twenty 75 KVA single-phase and one 500 KVA three-phase padmount transformers are presented for Council's approval and permission to advertise for bids is requested. The bid opening date has been set for Tuesday, March 13, 1984.

The transformers will be utilized within the following developments,

Lakeshore Village, Units #5, 6 & 7  
Park West, Units #2 & 3  
Noma Ranch  
Summerfield  
Meadows  
Wine Country Plaza

and to maintain an inventory of transformers for other needs, as they develop.

The estimated cost of this purchase is \$48,000 with delivery expected in four months.

  
\_\_\_\_\_  
David K. Curry  
Utility Director

Attach.



Specifications  
Single-Phase and Three-Phase  
Padmount Transformers

UD-E84-1

February, 1984

**CITY OF LODI**  
**UTILITY DEPARTMENT**

NOTICE INVITING BIDS TO  
FURNISH AND DELIVER SINGLE-PHASE AND THREE-PHASE  
PADMOUNT TRANSFORMERS

TO

CITY OF LODI, CALIFORNIA

The City of Lodi hereby invites sealed proposals for furnishing and delivering single-phase and three-phase padmount transformers.

Each bid shall be in accordance with specifications on file in the office of the Utility Director, City Hall, City of Lodi, California where copies of said specifications may be inspected or obtained. No bid will be considered unless it is submitted on a proposal form furnished by the City of Lodi.

Said sealed proposals shall be delivered to the Purchasing Agent at the City Hall, 221 West Pine Street, Lodi, California (P. O. Box 320, Lodi, CA 95241-0320), at or before

11:00 A.M., TUESDAY, MARCH 13, 1984

and will be publicly opened on said day and hour in the Council Chambers in the City Hall, Lodi, California.

The City of Lodi reserves the right to reject any or all bids, to waive any informality or irregularity in any bid, to accept other than the lowest bid, or not to award the bid.

Reference is hereby made to said specifications for further details.

CITY OF LODI

James W. Pruss  
Purchasing Agent

## INFORMATION TO BIDDERS

### BID OPENING

- A. The purchasing Agent will receive sealed bids in his office, City Hall, 221 West Pine Street, Lodi, California 95240, until the time for opening bids as noted in the "Notice Inviting Bids." Bidders or their authorized agents are invited to be present.
- B. The proposal shall be submitted as directed in the "Notice Inviting Bids" under sealed cover plainly marked as a proposal, and identifying the equipment to which the proposal relates and the date of the bid opening therefor. Proposals which are not properly marked may be disregarded.

### PROPOSAL FORM

- A. Prospective bidders are furnished with one proposal form included with the specifications.
- B. The proposal must be signed with the full name and address of the bidder, if a co-partnership, by a member of the firm; if a corporation, by an officer in the corporate name.
- C. The purchaser reserves the right to accept other than the lowest bid and to reject any or all bids.

### REJECTION OF PROPOSALS

Bids may be rejected if they show any alterations of proposal form, additions not called for, or alternative bids not properly documented. Bids proposing equipment with which the City has no prior in-service experience may be rejected. Erasures or irregularities of any kind may also be cause for rejection.

### AWARD OF BID

- A. The award of the bid, if it be awarded, will be to the lowest responsible bidder whose bid proposal complies with all the requirements described.

## AWARD OF BID (continued)

- B. Transformer losses will be considered in the evaluation of the proposal.
- C. Where alternate bids are received, the City Council reserves the right to select the bid most advantageous to the City. The award, if made, will be made within thirty (30) days after the opening of the bids.

## DELIVERY

Delivery time will be part of the bid evaluation, and delivery shall be clearly indicated on the proposal. Truck delivery shall be made only during normal working hours.

## PRICES

All quoted prices shall be current\* and firm for at least thirty (30) days after date of bid opening. Escalation clause(s) and base indices shall be clearly specified. Maximum escalation shall also be indicated. Prices to be F.O.B. Lodi, California.

## SALES AND USE TAXES

All quotations submitted shall include California state sales or use taxes.

## PAYMENTS

- A. Invoices shall indicate sales or use taxes as separate items apart from the cost F.O.B. point of delivery. Purchaser's specifications and order number shall appear on all invoices. All invoices shall be rendered in triplicate.
- B. Full payment by purchaser shall not release supplier of his responsibility to fully carry out his bid obligations nor be construed by supplier as acceptance of the work hereunder by purchaser.

\* March, 1984

## GUARANTEES

- A. In addition to any or all guarantees mentioned elsewhere herein, the supplier shall repair and/or replace entirely at his own expense any parts or part that may develop defects due to faulty material, workmanship or design within a period of at least one year after the equipment has been accepted by the purchaser.
- B. This transaction will be covered by City of Lodi purchase order and all terms included in Information to Bidders, Proposal and Detailed Specifications will be binding.

PROPOSAL

UD-E84-1 - SINGLE-PHASE AND THREE-PHASE  
PADMOUNT TRANSFORMERS

FOR

THE CITY OF LODI, CALIFORNIA

PROPOSAL

TO FURNISH EQUIPMENT AS SPECIFIED IN THESE SPECIFICATIONS FOR THE CITY OF  
LODI, CALIFORNIA.

Name of Bidder \_\_\_\_\_

Address of Bidder \_\_\_\_\_

To the Lodi City Council  
City Hall  
Lodi, California

The undersigned, as bidder, declares that he has carefully examined the Information to Bidders and Specifications filed for furnishing and delivering equipment, and agrees that he is fully informed regarding all of the conditions affecting the materials to be furnished for the completion of the work, and that his information was secured by personal investigation and research and not from any estimate of the engineer; and that he will make no claim against the City by reason of estimates, tests or representations of any officer or agent of the City; and he proposes and agrees that, if the proposal be accepted, he will furnish the City of Lodi the necessary apparatus and materials specified in the bid in the manner and time therein set forth. It has been noted the City of Lodi reserves the right to accept all or part of this bid, and to reject any or all bids or to accept other than the lowest bid.

All items listed below are to be in accordance with the City of Lodi Specifications dated February, 1984. The bidder will submit a detailed list of any and all exceptions taken to these Specifications. In the absence of such a list, it will be understood that the bidder's proposal is based on strict conformance to the Specifications in all respects. If exceptions are taken, they will be cleared before the award is made.

If awarded the bid, the undersigned agrees to furnish and deliver the equipment described in the Specifications and that he will take in full payment therefor the following unit and total prices, to-wit:

<u>QUANTITY</u>	<u>ITEM WITH UNIT PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
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ITEM 1

Ten            50 KVA, single-phase, 12,000 Grd.  
Wye/6930 - 240/120-volt transformers

\_\_\_\_\_ \$ \_\_\_\_\_ \$ \_\_\_\_\_

Taxes: \$ \_\_\_\_\_

Subtotal: \$ \_\_\_\_\_

Delivery of transformer is \_\_\_\_\_ weeks.

Maximum escalation is \_\_\_\_\_ percent.

No load loss \_\_\_\_\_ kw; Load loss (winding) \_\_\_\_\_ kw.

Height of unit \_\_\_\_\_ inches. Manufacturer \_\_\_\_\_

ITEM 2

Twenty        75 KVA, single-phase, 12,000 Grd.  
Wye/6930 - 240/120-volt transformers

\_\_\_\_\_ \$ \_\_\_\_\_ \$ \_\_\_\_\_

Taxes: \$ \_\_\_\_\_

Subtotal: \$ \_\_\_\_\_

Delivery of transformer is \_\_\_\_\_ weeks.

Maximum escalation is \_\_\_\_\_ percent.

No load loss \_\_\_\_\_ kw; Load loss (winding) \_\_\_\_\_ kw.

Height of unit \_\_\_\_\_ inches. Manufacturer \_\_\_\_\_

<u>QUANTITY</u>	<u>ITEM WITH UNIT PRICE WRITTEN IN WORDS</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
-----------------	--	-------------------	--------------

ITEM 3

One 500 KVA, three-phase, 12,000-volt Delta to 208Y/120-volt transformer, with primary On-Off switch.

\_\_\_\_\_ \$ \_\_\_\_\_ \$ \_\_\_\_\_

Taxes: \$ \_\_\_\_\_

Subtotal: \$ \_\_\_\_\_

Delivery of transformer is \_\_\_\_\_ weeks.

Maximum escalation is \_\_\_\_\_ percent.

No load loss \_\_\_\_\_ kw; Load loss (winding) \_\_\_\_\_ kw.

Height of unit \_\_\_\_\_ inches. Manufacturer \_\_\_\_\_

GRAND TOTAL: (Items 1 - 3) \$ \_\_\_\_\_

It is understood and agreed that if this Proposal is accepted, the price quoted above is inclusive of sales or use tax, or similar tax now imposed by Federal, State, or other governmental agency upon the material specified.

Shipment will be made by \_\_\_\_\_  
(trucks, or railroad cars and trucks)  
and will be consolidated into about \_\_\_\_\_ shipments.  
(number of)

The undersigned submits with this Proposal complete manufacturer's specifications covering all material bid. Failure to provide adequate information may cause rejection of bid.

In any case where discrepancy in extensions may occur, the Bidder agrees that the unit price shall be taken as the correct figure.

The undersigned has checked carefully all the above figures and understands that the City and its officers and employees will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

The undersigned, as bidder, hereby declares that the only persons or firms interested in the proposal as principal or principals is or are named herein and that no other persons or firms than herein mentioned have any interest in this proposal, that his proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith, without collusion or fraud.

The undersigned hereby designates as his office to which such notice of acceptance may be mailed, telegraphed or delivered:

\_\_\_\_\_

This bid may be withdrawn at any time prior to the scheduled time for the opening of bids or any authorized postponement thereof.

SIGNATURE OF BIDDER

\_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Dated: \_\_\_\_\_

Address \_\_\_\_\_

The full names and residences of persons and firms interested in the foregoing bid, as principals, are as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIVISION 1 - GENERAL REQUIREMENTS

TRANSFORMERS - OIL FILLED

1-1 GENERAL:

Electrical design and materials shall conform to the latest EEI-NEMA and ANSI Standards. It is the intent of these specifications to describe equipment of the best design and construction, for the service for which it is intended. Consequently, it shall be the City's desire to award contracts to the bidder who has demonstrated high quality, by a considerable number of transformers of his manufacture in service on the lines of electrical utilities over a period of years.

1-2 PERFORMANCE SPECIFICATIONS:

Bidders shall submit with their bid complete performance specifications and dimensions of the transformers they propose to furnish. Failure to supply transformer data may be cause for rejection of the bid.

1-3 TESTS:

Transformers shall receive at least the following tests in accordance with the applicable ANSI and NEMA Standards:

- |                          |   |
|--------------------------|---|
| (1) Load & no load loss. | (5) Applied and induced potential test.         |
| (2) Exciting current.    | (6) Impulse voltage test.                       |
| (3) Polarity check.      | (7) Tank pressure.                              |
| (4) Ratio check.         | (8) Radio influence voltage<br>(NEMA TR1-1980). |

1-4 SERVICE:

The manufacturer shall own and operate a service shop in this vicinity, or the bidder may submit evidence that he has a repair shop contract with an approved service shop in this vicinity, which has been in effect for a period of at least one year.

1-5 GUARANTEE:

The contractor shall guarantee all equipment delivered under these specifications against any and all defects in material and/or workmanship for a period of at least one year from date of acceptance. He shall rectify all such defects by repair or replacement at his own expense and assume responsibility for associated shipping costs.

1-6 SHIPMENT:

Unloading of truck deliveries will be performed only during the normal 40-hour work week. All shipments will be prepaid, F.O.B. Lodi, California.

1-7 TECHNICAL INFORMATION:

The following specifications shall be met:

- (1) Insulation level: 95 kv BIL (min.)
- (2) Insulation rating: 65°C rise
- (3) Ground lugs which accept 4-1/0 AWG copper shall be provided.
- (4) All exterior surfaces shall be coated, using a system of coordinated and thoroughly tested materials and application techniques that will assure long life. Special attention shall be given to welds, seams, edges and rough spots.
- (5) Lifting lugs shall be provided on the tank and shall be located in such a way to avoid interference between lifting slings and any attachments on the transformer and to avoid scratching the transformer coating.
- (6) Tanks shall be tested at a pressure equal to or greater than the maximum operating pressure and for a sufficient period of time to insure that all welds are free from leaks. Tank and radiator construction shall be consistent with good manufacturing and design practices prevalent in the transformer industry, and together they should contribute to a high quality product.

1-7 TECHNICAL INFORMATION:(continued)

- (7) Stainless steel nameplate shall be securely attached to the transformer by means of stainless steel screws, rivets or other fasteners. The letters and numbers shall be stamped on the nameplate. The instruction nameplate shall contain the information specified in Section 5.12 of ANSI Standard C57.12.00 - 1980.
- (8) Sound level: The sound level shall be equal to or better than EEI-NEMA Standards.

1-8 LOSSES:

Transformer losses will be considered in the evaluation of this bid, in accordance with the following:

No load loss @ \$3,950/kw.

Load loss (winding) @ \$650/kw.

Quoted losses to be average guaranteed. Certified test report of losses must be submitted by manufacturer.

1-9 PCB CONTENT:

Transformer fluid must be guaranteed to contain less than 1 p.p.m. Polychlorinated Biphenyls (PCB). Certified test report of PCB content must be produced upon request.

1-10 DIMENSIONS:

The height of the units will be considered in the evaluation of this bid. Please submit alternate bids for low profile units meeting these specifications (three-phase units only).

1-11 LABELING:

The units are to be shipped without the Safety Labels per NEMA No. 260-1982. The City will affix its personalized "Mr. Ouch" labels.

## DIVISION 2 - EQUIPMENT SPECIFICATIONS

### PADMOUNT TRANSFORMER - SINGLE PHASE, 60 Hz, OISC

#### 2-1 GENERAL:

Enclosure to be in conformance with Western Underground Committee Guide #2.13, Rev. 4, and be of the low-profile design, maximum height 26". The access door shall open to the top 180° and be removable. The design shall be dead front, loop feed. Cables shall enter and leave the transformer from below through openings in a pad.

#### 2-2 STANDARD ACCESSORIES:

In addition to that specified in General Requirements, transformers shall be provided with the following:

- (1) Pressure relief valve: Qualitrol 202-6, Circle Seal P60-383, or equal.
- (2) Low voltage terminals: 4-hole in-line spade type (all insulated), which may be rotated to allow convenient connection of cables.
- (3) Oil level and drain plugs.
- (4) Parking stand(s) for high voltage terminations.
- (5) Two (2) loop feed, high voltage universal bushing wells.
- (6) RTE Bay-O-Net fuse with moulded outer tube assembly, Catalog #4000361C50M, A-7 isolation link and oil drip plate below fuse holder entrance. Fuse element not to be installed, but supplied in a bag attached to fuse holder handle.

#### 2-3 RATINGS AND DESIGN: (Single-Phase Units)

- A. Dead front, loop feed with two (2) universal bushing wells.
- B. 12,000 Grd. Wye/6930-volt primary to 240/120-volt secondary.

2-3 RATINGS AND DESIGN: (Single-Phase Units) - Continued

C. RTE Bay-O-Net load-sensing fuse with A7 isolation link.

Transformers shall be furnished as follows:

ITEM 1

Ten - 50 KVA, C8-15 amp. fuse.

ITEM 2

Twenty - 75 KVA, C10-25 amp. fuse.

## DIVISION 3 - EQUIPMENT SPECIFICATIONS

### PADMOUNT TRANSFORMER - 3-PHASE, 60 HERTZ, OISC

#### 3-1 GENERAL:

Enclosure to be in conformance with Western Underground Committee, Guide #2.13, Rev. 4. High and low voltage sections shall be separated and the low voltage door shall be equipped with a locking handle, and in addition, the doors so arranged that access to the high voltage compartment can be gained only after opening the low voltage door; doors shall be removable. Cables shall enter and leave the compartment sections from below, through openings in a concrete pad.

#### 3-2 STANDARD ACCESSORIES:

In addition to that specified in General Requirements, transformers shall be provided with the following:

- (1) Pressure relief valve: Qualitrol 202-6 or Circle Seal P60-383.
- (2) Low voltage bushing spades - 4 insulated NEMA pattern (4 holes min.).
- (3) Liquid level gauge, drain valve and oil filler plug.
- (4) Parking stands for each high voltage elbow terminator.
- (5) Universal bushing wells, for high-voltage terminations.
- (6) R.T.E. Bay-O-Net fuses with moulded outer tube assembly, Catalog #4000361C50M, A7 isolation link and oil drip-plate below fuse holder entrance. Fuse elements not to be installed, but to be supplied in a bag attached to fuse holder handle.

**3-3 RATINGS AND DESIGN: (Three-Phase Unit)**

- A. 500 KVA, dead front, radial feed design with three (3) universal bushing wells.
- B. ON-OFF loadbreak, gang-operated, oil-immersed switch. Switch handle with eye for operation with hot stick shall be located in high-voltage compartment.
- C. 12,000 volt (Delta-connected primary) to 208Y/120 volt.
- D. RTE Bay-O-Net fuses, size C12, 50 amp. load sensing with A7 isolation link.