

ORDINANCE NO. 93-03

AN ORDINANCE APPROVING THE PURCHASE OF SUBSTATION TRANSFORMERS

WHEREAS, the Village of Chatham sought and obtained bids for two (2) three phase power substation transformers, with an option of ready for service; and

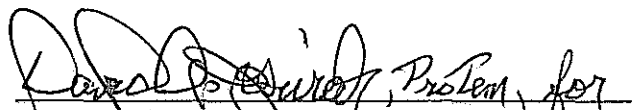
WHEREAS, on January 29, 1993, the bids were opened and the lowest responsible bidder identified, and;


WHEREAS, the Public Works Committee has analyzed the bids and is recommending the acceptance of the lowest bid of \$425,592 ready for service (see exhibit "A") from Cooper Power Systems.

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF CHATHAM, ILLINOIS, AS FOLLOWS:

SECTION 1: The bid of \$425,592 from Cooper Power Systems, being the lowest evaluated bid is hereby approved.

SECTION 2: This Ordinance is effective upon its passage and approval.


CARL OBLINGER, VILLAGE PRESIDENT

ATTEST: 
PAT SCHAD, VILLAGE CLERK

AYES: 6

NAYS: 0

PASSED: 3-9-93

APPROVED: 3-9-93

TRANSFORMER BID EVALUATION

| BIDDER NAME | TRANS BID PRICE | HOURS REQ ASSY | TIME FOR DELIVERY | PRICE F.O.B. PAD | BID FOR EXISTING | NO LOAD LOSS | COST | LOAD LOSS 12MVA | COST | 1ST STAGE LOSS | COST | 2ND STAGE LOSS | COST | EXTENDED WARRANTY CREDIT | EVALUATED TRANS COST | EVALUATED READY FOR SERVICE |
|--|-----------------|----------------|-------------------|------------------|------------------|--------------|-------|-----------------|-------|----------------|------|----------------|------|--------------------------|----------------------|-----------------------------|
| COOPER POWER MVA AT 65 15/20/25 | 406592 | 120-150 | 210 | 425592 | NO BID | 10.80 | 32400 | 48.40 | 72600 | 0.80 | 1200 | 1.20 | 1800 | 16263.68 | \$498,328.32 | \$517,328.32 |
| DEVIATIONS: 1. LV BUSHING WILL BE CATALOG NO. B81294 INSTEAD OF LAPP CATALOG NO. B82016-70, A SPARE IS INCLUDED | | | | | | | | | | | | | | | | |
| MAGNETEK MVA AT 65 15/20/25 | 443840 | 20 | 224 | 464540 | 30000 | 10.44 | 31320 | 52.60 | 78900 | 0.60 | 900 | 0.60 | 900 | 17753.60 | \$538,106.40 | \$558,806.40 |
| DEVIATIONS: NO DEVIATIONS NOTED | | | | | | | | | | | | | | | | |
| NORTH AMERICAN MVA AT 65 16/20/25 | 445580 | 32 | 200 | 481230 | NO BID | 10.50 | 31500 | 45.50 | 68250 | 0.75 | 1125 | 0.75 | 1125 | | \$547,580.00 | \$583,230.00 |
| DEVIATIONS: NO DEVIATIONS NOTED | | | | | | | | | | | | | | | | |
| KUHLMAN MVA AT 55/65 13.4/17.9/22.3 | 384178 | 48 | 140-180 | NO BID | NO BID | 10.55 | 31650 | 42.70 | 64050 | 0.75 | 1125 | 0.75 | 1125 | | \$482,128.00 | \$517,778.00 |
| DEVIATIONS: 1. METERING BUSHONG CT ACCURACY AT 1.2% INSTEAD OF .03% AT 100/5 2. WINDING BUSHING CT 1 1200/5 C800 AND 1 METERING BCT PER BUSHING INSTEAD OF 2 1200/5 C800 AND 1 METERING BCT PER HV BUSHING 3. NOT TOP RATED AT 25 MVA | | | | | | | | | | | | | | | | |
| ABB MVA AT 55/65 12/16/20 | 420546 | 32 | 135 | 449946 | NO BID | 11.80 | 35400 | 40.90 | 61350 | 1.00 | 1500 | 1.00 | 1500 | | \$520,296.00 | \$549,696.00 |
| DEVIATIONS: 1. CAN NOT SUPPLY 100/5 METERING CLASS CURRENT TRANSFORMERS 2. TERMINAL CONNECTORS NOT INCLUDED 3. N.L. TAP CHANGERS ON THE SIDE 4. NON LAPP BUSHINGS 5. NO UNDERCOATING 6. EXCEPTION TO TERMINAL BLOCKS 7. NOT TOP RATED AT 25 MVA | | | | | | | | | | | | | | | | |
| G.E. COMPANY MVA AT 55/65 12/16/20/22.4 | 455747 | 32 | 28 WKS | 500747 | NO BID | 9.60 | 28800 | 36.80 | 55200 | 1.00 | 1500 | 1.00 | 1500 | | \$542,747.00 | \$587,747.00 |
| DEVIATIONS: 1. NOT TOP RATED AT 25 MVA | | | | | | | | | | | | | | | | |

EXHIBIT A

VILLAGE OF CHATHAM
116 EAST MULBERRY
CHATHAM, ILL. 62629

P-17759

Item #2

THREE PHASE POWER TRANSFORMER BID FORM

NAME OF BIDDER: Cooper Power Systems, Inc.

ADDRESS: P. O. Box 440, Adams Avenue
Canonsburg, PA 15317

COMPLETED BY: Lawrence B. Hennen

DATE: January 28, 1993 PHONE: 412-873-2504

Items removed for shipment: Bushings, arrester brackets, radiators
and fans.

- | | ALTERNATE
ITEM #2 |
|--|-----------------------------|
| 1. Total price of two three phase power transformers as specified in Section VIII, F.O.B. Chatham Substation | Rated 15/20/25 MVA @ 65°C |
| Amount included in above for: | \$ <u>406,592.00</u> |
| Transportation charges | \$ <u>11,960.00</u> |
| Service charge (if any) for destination terms | \$ <u>None</u> |
| 2. Price added to Item #1 for each dB reduction in sound level from guaranteed values | \$ <u>None</u> |
| 3. Price per diem for a service engineer | \$ <u>850.00</u> |
| 4. Number of days included in #1 for service engineer | <u>None</u> |
| 5. Man-hours required to field assemble transformer | <u>120 - 150</u> |
| 6. Point of origin and/of port of entry | <u>Canonsburg, PA 15317</u> |
| 7. Time for delivery ^{shipment} is | <u>210</u> days |

VILLAGE OF CHATHAM
 116 EAST MULBERRY
 CHATHAM, ILL. 62629

8. Total price for transformers F.O.B. pad, ready for service, as specified in Section IX.A. \$ 425,592.00
 Change (if any) to warranty No Charge (See Terms of 5 Year Warranty)
9. Purchase price for existing transformers as specified in Section IX.B \$ No Bid

The Village of Chatham is to be notified if changes in equipment requested by them affect the contract price.

Proposal Data for 138/127.47 KV Transformer

| <u>Item #</u> | <u>Description</u> | <u>Data</u> |
|---------------|--|---------------|
| 1. | Net weight of installed transformer | <u>92,400</u> |
| 2. | Heaviest piece to be handled during erection | <u>1450</u> |
| 3. | Guaranteed sound level at maximum selfcooled rating | <u>67 DB</u> |
| 4. | Guaranteed sound level at maximum first stage rating | <u>69 DB</u> |
| 5. | Guaranteed sound level at maximum second stage rating | <u>70 DB</u> |
| 6. | Total number of gallons of oil to be supplied | <u>3920</u> |
| 7. | Guaranteed exciting current at 90% rated voltage | <u>0.3%</u> |
| 8. | Guaranteed exciting current at 100% rated voltage | <u>0.6%</u> |
| 9. | Guaranteed exciting current at 105% rated voltage | <u>1.0%</u> |
| 10. | Guaranteed positive sequence impedance at 12 MVA | <u>9.0%</u> |
| 11. | Guaranteed zero sequence impedance at 12 MVA | <u>8.8%</u> |
| 12. | Guaranteed no load loss at 100% rated voltage, ¹⁵ 12 MVA, and 75 degrees C | <u>10800</u> |
| 13. | Guaranteed total losses at XX ¹⁵ MVA and 75 degrees C | <u>59200</u> |
| 14. | Load loss at XX ¹⁵ MVA and 75 degrees C | <u>48400</u> |
| 15. | Guaranteed load loss of first stage pumps and fans | <u>800</u> |
| 16. | Guaranteed load loss of first and second stage pumps and fans | <u>2000</u> |

Cooper Power Systems

City of Chatham
East Mulberry
Canonsburg, IL 62629
Mr. Meredith Branham,
Public Works Director

January 28, 1993
Inquiry No: Substation
Transformer Bid

Cooper Power Systems, SELLER, hereby proposes to sell to you, the PURCHASER, the following equipment, subject to the terms and conditions, No. CP 102
and within this proposal, at the following prices and for shipment at the approximate time all as shown therein, and for delivery F.O.B. ~~EXWORKS~~ ~~PORT~~
~~DESTINATION unless specifically amended elsewhere in this proposal.~~

All freight prepaid and allowed to the railroad siding nearest to destination which is accessible by direct rail movement from origin at the time of shipment.

| QTY. | KVA | PHASE | CYCLES | TEMP. RISE | VOLTAGE | HIGH VOLTAGE TAPS | | PRICE EACH | SHIPMENT |
|------|---------------------------|-------|--------|-------------|--|-------------------|------------------|--------------|----------|
| | | | | | | ABOVE | BELOW | | |
| 2 | 12000/ 16000/ 20000 | 3 | 60 | 55/ 65°C | 138000 Delta - 12470 WYE | 144900 141450 | 134550 131100 | \$198,432.00 | * |
| 2 | 15000/ 20000/ 25000 | 3 | 60 | 65°C | ALTERNATE 138000 Delta 12470 WYE | 144900 141450 | 134550 131100 | \$203,296.00 | * |

Shipment can be made as early as 30 weeks after receipt of an order at Canonsburg, PA, subject to change based on prior factory loading when order is received.

This proposal is subject to acceptance within 30 days.

The transformers described herein will be designed, constructed and tested in accordance with applicable ANSI/NEMA standards in effect as of the date of this proposal and Inquiry Specification For Substation dated with the qualifications and exceptions listed on the attached sheets.

Prices quoted are firm for shipment through December 31, 1993 (12/31/93).

Standard terms of sale are net 30 days from date of invoice. A late payment charge of 1-1/2% per month will be applied to any late payments unless otherwise specifically amended by this proposal.

PLEASE SEE ATTACHED SHEETS AS LISTED BELOW:

SHEET NUMBERS

COOPER POWER SYSTEMS

Lawrence B. Hennen
Market Engineer

By 

Shipping time quoted in this proposal will be computed from the date a bonafide purchase order (complete with all necessary specifications) is received at Canonsburg, PA. Delays due to incomplete or revised specifications or any other changes which delay design or production of the equipment covered by this proposal may require an extension of the quoted shipping time.

* Federal Excise Taxes are not applicable to Transformers.

This is an INTERSTATE TRANSACTION and, as such, involves no obligation on our part with respect to any Sales, Use or other taxing laws of any State of the United States of America or any City or other taxing authority in any such State) in which any purchaser hereunder is located and/or in which the transformers may be located, and this proposal does not include, nor do we assume any such taxes, if any.

D. W. Hilt
Feb. 23, 1993

**ESTIMATE TO MOVE TRANSFORMERS TO FOUNDATION AND PREPARE
TRANSFORMER FOR SERVICE**

Estimated cost to move transformer to pad

Cost of a heavy moving firm = \$10000

Estimated cost to assemble transformer

Contract Labor 150 Man Hours @ \$50/hr = \$7500
(Includes equipment and overheads)

Total each transformer = \$17500