

SERVICES AGREEMENT

BID NO. 7507

REINHAUSEN MANUFACTURING, INC.,

RERC TRANSFORMER RECONDITIONING PROJECT

On this 25 day of November, 2017, the CITY OF RIVERSIDE, a California charter city and municipal corporation ("City"), and REINHAUSEN MANUFACTURING, INC., a Delaware corporation authorized to do business in California ("Contractor"), mutually agree as follows:

1. **Scope of Services.** Contractor shall furnish all labor, materials and equipment for and perform the work of **RERC TRANSFORMERS RECONDITIONING PROJECT** ("Services"). Contractor shall perform the Services in accordance with the provisions and requirements of the Contractors Bid Proposal, for the above-referenced Bid No. RPU-7507 (incorporated herein by reference and comprised of Notice Inviting Bids, Instructions to Bidders and attachments, Electronic Bid Schedule of Prices, Electronic List of Subcontractors, Proposal, Signature Certification/Authorization, Bid Guaranty, and where applicable, Contractor Qualification Statement and/or Subcontractor Qualification Statement, Special Provisions and Standard Specifications) and the Scope of Services attached hereto as Exhibit "A" and incorporated herein by reference.

2. **Term.** This Agreement shall be in effect from the date first written above through June 30, 2018, unless otherwise terminated pursuant to the provisions herein. **The term may be extended for an additional one-year period, upon mutual written agreement of the parties.**

3. **Compensation.** City shall pay Contractor for the performance of the Services during the initial term of this Agreement a Contract Price not to exceed **Ninety Three Thousand Five Hundred Fifty-Six Dollars (\$93,556.00)**, unless an increase is agreed to by the parties. City shall pay Contractor for Services performed to City's satisfaction on a monthly basis in accordance with the provisions of the Contractors Bid Proposal and the Compensation Schedule attached hereto as Exhibit "B" and incorporated herein by this reference. If the term of the Agreement is extended, Contractor's compensation for the extended term shall be mutually agreed upon in writing by the parties.

4. **General Compliance with Laws.** Contractor shall keep fully informed of federal, state and local laws and ordinances and regulations which in any manner affect those employed by Contractor, or in any way affect the performance of Services by Contractor pursuant to this Agreement. Contractor shall at all times observe and comply with all such laws, ordinances and regulations, and shall be solely responsible for any failure to comply with all applicable laws, ordinances and regulations.

5. **Business Tax Certificate.** As a condition of this Agreement, Contractor shall secure a business tax certificate to operate in the City of Riverside pursuant to Chapter 5.04 of the

Riverside Municipal Code, and shall also secure any other licenses or permits which may be required.

6. **Business Tax and Penalties.** Contractor acknowledges and agrees that with respect to any business tax or penalties thereon, utility charges, invoiced fee or other debt which is owed, or which becomes owed, by Contractor to City, City reserves the right to withhold and offset said amounts from any payments, refunds or reimbursements owed by City to Contractor under the Agreement. Notice of such withholding and offset shall promptly be given to Contractor by City in writing. In the event of a dispute as to the amount owed or whether such amount is owed to City, City will hold such disputed amount until either the appropriate appeal process has been completed or until the dispute has been resolved.

7. **Personnel.** Contractor shall furnish all personnel necessary to perform the Services and shall be responsible for their performance and compensation. The key personnel are listed in Exhibit "C," attached hereto and incorporated herein by reference. Contractor shall furnish qualified personnel to perform the Services.

8. **Assignment and Subcontracting.** Neither party shall assign any right, interest, or obligation in or under this Agreement to any other entity without prior written consent of the other party. In any event, no assignment shall be made unless the assignee expressly assumes the obligations of assignor under this Agreement, in a writing satisfactory to the parties. Contractor acknowledges that any assignment may, at the City's sole discretion, require City Manager and/or City Council approval. Contractor shall not subcontract any portion of the work required by this Agreement without prior written approval by the responsible City Contract Administrator. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement, including without limitation, the insurance obligations set forth in Section 11. The Contractor acknowledges and agrees that the City is an intended beneficiary of any work performed by any subcontractor for purposes of establishing a duty of care between any subcontractor and the City.

9. **Independent Contractor.** In the performance of this Agreement, Contractor, and Contractor's employees, subcontractors and agents, shall act in an independent capacity as independent contractors, and not as officers or employees of the City of Riverside. Contractor acknowledges and agrees that the City has no obligation to pay or withhold state or federal taxes or to provide workers' compensation or unemployment insurance to Contractor, or to Contractor's employees, subcontractors and agents. Contractor, as an independent contractor, shall be responsible for any and all taxes that apply to Contractor as an employer.

10. **Indemnification.** Contractor shall indemnify and hold harmless the City, and the City's employees, officers, managers, agents and council members from any liability, claim, damage or action whatsoever, arising out of the sole negligence or willful misconduct of Contractor, its officers, employees, subcontractors, agents or including but not limited to property damage, bodily injury, or death. Contractor shall defend, at its sole cost and expense, including but not limited to attorney fees, cost of investigation, defense and settlement or awards, the City and the City's employees, officers, managers, agents and council members in any such action or claim. With respect to any action or claim subject to indemnification herein by Contractor, Contractor shall, at

its sole cost, have the right to use counsel of its own choice and shall have the right to adjust, settle, or compromise any such action or claim without the prior consent of City; provided, however, that any such adjustment, settlement or compromise in no manner whatsoever limits or circumscribes Contractor's indemnification of City. Contractor's obligations hereunder shall be satisfied when Contractor has provided to City the appropriate form of dismissal (or similar document) relieving the City from any liability for the action or claim involved. The specified insurance limits required in this Agreement shall in no way limit or circumscribe Contractor's obligations to indemnify and hold harmless the City.

11. Insurance.

11.1 General Provisions. Prior to the City's execution of this Agreement, Contractor shall provide satisfactory evidence of, and shall thereafter maintain during the term of this Agreement, such insurance policies and coverages in the types, limits, forms and ratings required herein. The rating and required insurance policies and coverages may be modified in writing by the City's Risk Manager or City Attorney, or a designee, unless such modification is prohibited by law.

11.1.1 Limitations. These minimum amounts of coverage shall not constitute any limitation or cap on Contractor's indemnification obligations under Section 10 hereof.

11.1.2 Ratings. Any insurance policy or coverage provided by Contractor or subcontractors as required by this Agreement shall be deemed inadequate and a material breach of this Agreement, unless such policy or coverage is issued by insurance companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or higher.

11.1.3 Cancellation. The policies shall not be canceled unless thirty (30) days' prior written notification of intended cancellation has been given to City by certified or registered mail, postage prepaid.

11.1.4 Adequacy. The City, its officers, employees and agents make no representation that the types or limits of insurance specified to be carried by Contractor pursuant to this Agreement are adequate to protect Contractor. If Contractor believes that any required insurance coverage is inadequate, Contractor will obtain such additional insurance coverage as Contractor deems adequate, at Contractor's sole expense.

11.2 Workers' Compensation Insurance. By executing this Agreement, Contractor certifies that Contractor is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation, or to undertake self-insurance before commencing any of the work. Contractor shall carry the insurance or provide for self-insurance required by California law to protect said Contractor from claims under the Workers' Compensation Act. Prior to City's execution of this Agreement, Contractor shall file with City either 1) a certificate of insurance showing that such insurance is in effect, or that Contractor is self-insured for such coverage, or 2) a certified statement that Contractor has no employees, and acknowledging that if Contractor does employ any person, the necessary certificate of insurance will immediately be filed with City. Any certificate filed with City shall

provide that City will be given ten (10) days' prior written notice before modification or cancellation thereof.

11.3 Commercial General Liability and Automobile Insurance. Prior to City's execution of this Agreement, Contractor shall obtain, and shall thereafter maintain during the term of this Agreement, commercial general liability insurance and automobile liability insurance as required to insure Contractor against damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from or which may concern operations by anyone directly or indirectly employed by, connected with, or acting for or on behalf of Contractor. The City, and its officers, employees and agents, shall be named as additional insureds under the Contractor's insurance policies.

11.3.1 Contractor's commercial general liability insurance policy shall cover both bodily injury (including death) and property damage (including, but not limited to, premises operations liability, products-completed operations liability, independent contractor's liability, personal injury liability, and contractual liability) in an amount not less than \$1,000,000 per occurrence and a general aggregate limit in the amount of not less than \$2,000,000.

11.3.2 Contractor's automobile liability policy shall cover both bodily injury and property damage in an amount not less than \$1,000,000 per occurrence and an aggregate limit of not less than \$1,000,000. All of Contractor's automobile and/or commercial general liability insurance policies shall cover all vehicles used in connection with Contractor's performance of this Agreement, which vehicles shall include, but are not limited to, Contractor owned vehicles, Contractor leased vehicles, Contractor's employee vehicles, non-Contractor owned vehicles and hired vehicles.

11.3.3 Prior to City's execution of this Agreement, copies of insurance policies or original certificates along with additional insured endorsements acceptable to the City evidencing the coverage required by this Agreement, for both commercial general and automobile liability insurance, shall be filed with City and shall include the City and its officers, employees and agents, as additional insureds. Said policies shall be in the usual form of commercial general and automobile liability insurance policies, but shall include the following provisions:

It is agreed that the City of Riverside, and its officers, employees and agents, are added as additional insureds under this policy, solely for work done by and on behalf of the named insured for the City of Riverside.

11.3.4 The insurance policy or policies shall also comply with the following provisions:

a. If the policy is written on a claims made basis, the certificate should so specify and the policy must continue in force for one year after completion of the services. The retroactive date of coverage must also be listed.

b. The policy shall specify that the insurance provided by Contractor will be considered primary and not contributory to any other insurance available to the City and Endorsement No. CG 20010413 shall be provided to the City.

12. **Termination.** City shall have the right to terminate any or all of Contractor's Services and work covered by this Agreement at any time upon thirty (30) calendar days' written notice to Contractor. In the event of such termination, Contractor shall submit Contractor's final written statement of the amount of services provided as of the date of such termination for payment by the City.

Notwithstanding the foregoing, the City may terminate Contractor's performance of this Agreement upon five (5) calendar days' written notice if:

- (1) Contractor fails to promptly begin performance of the Services;
- (2) Contractor fails to perform the Services;
- (3) Contractor discontinues performance of the Services;
- (4) Contractor fails to make payment to employees in accordance with applicable law;
- (5) Contractor disregards laws, ordinances, or rules, regulations, or orders of a public authority having jurisdiction;
- (6) Contractor otherwise is guilty of breach of a provision of this Agreement;
- (7) Contractor becomes insolvent, is adjudicated bankrupt, or makes a general assignment for the benefit of creditors and fails to provide City with adequate assurances of Contractor's ability to satisfy its contractual obligations.
- (8) A receiver, trustee, or other judicial officer shall not have any right, title, or interest in or to this Agreement. Upon that person's appointment, City has, at its option and sole discretion, the right to immediately cancel the Agreement and declare it null and void.

13. **Non-Discrimination.** During Contractor's performance of this Agreement, Contractor shall not discriminate on the grounds of race, religious creed, color, national origin, ancestry, age, physical disability, mental disability, medical condition including the medical condition of Acquired Immune Deficiency Syndrome (AIDS) or any condition related thereto, marital status, gender, gender identity, genetic information, gender expression, sex or sexual orientation, in the selection and retention of employees and subcontractors and the procurement of materials and equipment, except as provided in Section 12940 of the California Government Code. Further, Contractor agrees to conform to the requirements of the Americans with Disabilities Act in the performance of this Agreement.

14. **City's Right to Employ Other Consultants/Contractors.** City reserves the right to employ other Contractors in connection with the security services. If the City is required to employ another contractor to complete Contractor's work, due to the failure of the Contractor to perform, or due to the breach of any of the provisions of this Agreement, the City reserves the right to seek reimbursement from Contractor.

15. **Conflict of Interest.** Contractor, for itself and on behalf of the individuals employed as security guards assigned to the City, represents and warrants that by the execution of this Agreement, they have no interest, present or contemplated, affected by the above-described Services. Contractor further warrants that neither Contractor, individuals employed as security guards assigned to the City have any real property, business interests or income interests that will be affected by this project or, alternatively, that Contractor will file with the City an affidavit disclosing any such interest.

16. **Solicitation.** Contractor warrants that Contractor has not employed or retained any person or agency to solicit or secure this Agreement, nor has it entered into any agreement or understanding for a commission, percentage, brokerage, or contingent fee to be paid to secure this Agreement. For breach of this warranty, City shall have the right to terminate this Agreement without liability and pay Contractor only for the value of work Contractor has actually performed, or, in its sole discretion, to deduct from the Agreement price or otherwise recover from Contractor the full amount of such commission, percentage, brokerage or commission fee. The remedies specified in this section shall be in addition to and not in lieu of those remedies otherwise specified in this Agreement.

17. **Prevailing Wage.** If applicable, pursuant to Section 1771 of the California Labor Code, Contractors are required to pay the general prevailing rates of per diem wages, overtime and holiday wages as determined by the Director of the Department of Industrial Relations and implemented by Resolution No. 13346 of the City Council of the City of Riverside. The Director's determination of prevailing wage rates is available on-line at www.dir.ca.gov/dlsr/DPreWageDetermination.htm, and is referred to and made a part hereof as though fully set forth herein. California Labor Code Sections 1725.5 and 1771.1 requiring all general contractors and subcontractors to be registered with DIR. Registration can be accomplished through the DIR website by using this link: <http://www.dir.ca.gov/PublicWorks/PublicWorks.html>.

18. **Notices.** Service of any notices, bills, invoices or other documents required or permitted under this Agreement shall be sufficient if sent by one party to the other by United States mail, postage prepaid and addressed as follows:

To City

**Riverside Public Utilities, Energy
Delivery
City of Riverside
Attn: Fady Megala
3750 University Avenue, 3rd Floor
Riverside, CA 92501**

To Contractor

**Reinhausen Manufacturing, Inc.

Attn: James Gerut
2549 N. 9th Avenue
Humboldt, TN 38343**

19. **Venue.** Any action at law or in equity brought by either of the parties hereto for the purpose of enforcing a right or rights provided for by this Agreement shall be tried in the Superior Court of California, County of Riverside and the parties hereby waive all provisions of law providing for a change of venue in such proceedings to any other county.

20. **Waiver.** No action or failure to act by the City shall constitute a waiver of any right or duty afforded City under this Agreement, nor shall any action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically provided in this Agreement or as may be agreed in writing.

21. **Severability.** Each provision, term, condition, covenant and/or restriction, in whole and in part, in this Agreement shall be considered severable. In the event any provision, term, condition, covenant and/or restriction, in whole and/or in part, in this Agreement is declared invalid, unconstitutional, or void for any reason, such provision or part thereof shall be severed from this Agreement and shall not affect any other provision, term, condition, covenant and/or restriction of this Agreement and the remainder of the Agreement shall continue in full force and effect.

22. **Amendments.** This Agreement may be modified or amended only by a written agreement and/or change order executed by the Contractor and City.

23. **Authority.** The individuals executing this Agreement and the instruments referenced herein on behalf of Contractor each represent and warrant that they have the legal power, right and actual authority to bind Contractor to the terms and conditions hereof and thereof.

24. **Entire Agreement.** This Agreement constitutes the final, complete, and exclusive statement of the terms of the agreement between the parties pertaining to the subject matter of this Agreement, and supersedes all prior and contemporaneous understandings or agreements of the parties. Neither party has been induced to enter into this Agreement by, and neither party is relying on, any representation or warranty outside those expressly set forth in this Agreement.

25. **Liquidated Damages.** Failure of Contractor to complete the Services within the time allowed will result in damages being sustained by City. Such damages are, and will continue to be, impracticable and extremely difficult to determine. For each consecutive calendar day in excess of the time specified for the completion of Work, as adjusted in accordance with Section 6-6 and/or 6-7 of the Standard Specifications, Contractor shall pay to City, or have withheld from monies due Contractor, the sum of One Thousand Dollars (\$1000). Execution of this Agreement shall constitute agreement by City and Contractor that said sum is the minimum value of the costs and actual damage caused by the failure of Contractor to complete the Work within the allotted time. Such sum is liquidated damages and shall not be construed as a penalty, and may be deducted from payments due Contractor if such delay occurs. Additional liquidated damages shall be assessed in the amount of Five Hundred Dollars (\$500) per incident that the Contractor fails to install the Best Management Practices within 24 hours of notification as described in Section 7.8.6.1 of the Special Provisions.

26. **Performance and Payment Bonds.** Prior to City's execution of this Agreement, Contractor shall furnish to the City two (2) duly executed surety bonds using the forms included within the Bidding Requirements, one (1) as security for the faithful performance of the Contract and one (1) as security for the payment of all persons performing labor and furnishing materials in connection with the Contract. Both bonds shall be in the amount of one hundred percent (100%) of the Contract Price and shall be subscribed by an Admitted Surety Insurer which is authorized to transact surety insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or larger. Should any bond or surety become insufficient, Contractor shall furnish City a new bond within ten (10) days after receiving notice from City. No payments will be due or paid under the Contract until any and all bond deficiencies have been remedied. Contractor, by execution of this Agreement acknowledges that the bonds are not Contract Documents, but are separate obligations.

27. **Public Work Project.**

27.1 **Prevailing Wage.** This Project is a public work as defined in California Labor Code Section 1720. Contractor and all Subcontractors of any tier are required to pay all workers employed in the execution of the Work not less than the general prevailing wage rates of per diem wages and overtime and holiday wages determined by the Director of the Department of Industrial Relations ("DIR") under Section 1720 et seq. of the California Labor Code and implemented by Resolution No. 13346 of the City Council of the City of Riverside. The Director's determination of prevailing rates is available on-line at www.dir.ca.gov/dlsr/DPreWageDetermination.htm and is referred to and made a part hereof; the wage rates therein ascertained, determined and specified are referred to and made a part hereof as though fully set forth herein. Per Senate Bill 854 (2014), Contractor and subcontractors shall register with the Department of Industrial Relations (DIR) in order to bid and perform public works projects. Contractors and subcontractors on all public works projects shall submit electronic certified payrolls to the Labor Commissioner and City unless excused from this requirement.

27.2 **California Labor Code.** Contractor is aware of and stipulates that Contractor will also comply with the following sections of the California Labor Code:

- a. Section 1775 prescribing sanctions for failure to pay prevailing wage rates;
- b. Section 1776 requiring the making, keeping and disclosing of detailed payroll records and prescribing sanctions for failure to do so;
- c. Section 1777.5 prescribing the terms and conditions for employing registered apprentices;
- d. Section 1810 providing that eight hours of labor shall be a day's work; and
- e. Section 1813 prescribing sanctions for violations of the provisions concerning eight-hour work days and forty-hour work weeks.
- f. Sections 1725.5 and 1771.1 requiring all general contractors and subcontractors to be registered with DIR. Registration can be accomplished through the DIR website by using this link: <http://www.dir.ca.gov/Public-Works/PublicWorks.html>.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed the day and year first above written.

CITY OF RIVERSIDE, a California
charter city and municipal corporation

By: _____
City Manager

Attest: _____
City Clerk


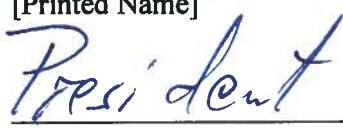
Certified as to Availability of Funds

By:  _____
CFO/Treasurer

Approved as to Form:

By:  _____
Assistant City Attorney

REINHAUSEN MANUFACTURING, INC.
a Delaware corporation authorized to do
business in California

By:  _____
Bernhard Kurth
[Printed Name]
 _____
President
[Title]


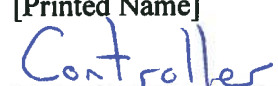
By:  _____
Mark Zwahlen
[Printed Name]
 _____
Controller
[Title]

EXHIBIT "A"

SCOPE OF SERVICES

A handwritten signature or set of initials, possibly 'U' or 'H', located in the top right corner of the page.

2-6 WORK TO BE DONE.

2-6.1 Scope of Project. As part of a scheduled annual routine maintenance, on Wednesday, November 15, 2017, RPU crew will take electrical clearance, de-energize transformer GSU-1, and ground transformer. Contractor will accept clearance and will be responsible for completing the work by Wednesday, November 22, 2017. On Thursday, November 23, 2017, RPU crew will take electrical clearance, de-energize transformer GSU-2, and ground transformer. Contractor will accept clearance and will be responsible for completing the work by Thursday, November 30, 2017. In general, the Contractor shall be responsible for providing all material, equipment, and labor to re-gasket the, test the transformer, drain and de-gasify oil, add oil if needed, remove rust and corrosion, and provide final report. All work will be done on GSU-1 and GSU-2. The Work to be completed by the contractor includes, but is not limited to the following tasks:

2.6.2 Transformers Nameplate.

1) GSU-1 *

Manufacture: Delta Star Transformer
Year: 2005
Serial: # 70290704
Size: MVA – 42/56/70
Voltage: 67,000GrdY/38,680V-13,800V
Oil Capacity: 4,700 Gallons
Year: 2004

2) GSU-2*

Manufacture: Delta Star Transformer
Year: 2005
Serial: # 70300804
Size: MVA – 42/56/70
Voltage: – 67,000GrdY/38,680V-13,800V
Oil Capacity: 4,700 Gallons
Year: 2004

* RPU certifies that that the oil is free of PCB.

2-6.3 RPU Responsibility.

- 1) City will be responsible for switching, lock out and grounding of any equipment necessary to establish safe work area.
- 2) City will provide suitable, free, clear, unlimited and compacted access route, roads and area around work location for access of service equipment.

2.6.4 Contractor Responsibility.

- 1) Mobilize crews and equipment and material to identified customer location.
- 2) Conduct tailgate meeting to identify potential safety hazards.
- 3) Verify disconnect and grounding of equipment.
- 4) Stage equipment
- 5) Contractor will compile all crating and waste material in designated area; and shall be responsible for disposal of solid wastes. Contractor is responsible for site cleanup (clearing and removing debris from site).

- 6) Contractor shall provide drum and dispose of all waste, flush and scrap oil generated in execution of work.
- 7) Contractor shall provide sanitation facilities.
- 8) Contractor shall provide for provision for secondary oil containment as may be required for compliance to local site SPCC programs.
- 9) If needed contractor shall disconnect and reconnect all external protection, control, and relay wiring, as required under the supervision of RPU personnel.
- 10) Contractor shall disconnect and reconnect all external bushing terminations or bus work, as required.

2-6.5 Visual Inspection.

Contractor will perform a visual inspection and report findings to City. Check paint condition and note rust spots.

2-6.6 Draining Transformer, Re-gasketing and Replacing Gauges*.

- 1) Drain transformer (4,700 gallons) into oil storage with containment berm supplied by contractor.
- 2) Have dry air flowing during the draining process
- 3) Replace gaskets for High, Low, and Neutral voltage bushings
- 4) Replace gaskets for surge arresters.
- 5) Regasket Drain/Fill Valve flanges (If valves need to be replaced, this will be based upon time and material rates – Permission by RPU will be required prior to proceeding with valves)
- 6) Replace radiator flange gaskets on 8 radiators
- 7) Re-Pack Individual Radiator Valves
- 8) Regasket access covers on Transformer
- 9) Replace gasket on SPR
- 10) Replace gasket on PRD
- 11) Replace gaskets on all gauges
- 12) Replace all transformer gauges (Liquid level (LL), winding temperature (WT), and oil temperature (OT) gauges). All gauges shall be Mesko. OT and WT: MT-ST160R.3/6/M and LT: MTO-STF-160/1Co/RM.
- 13) Upon completion pressurize transformer and check for leaks.
- 14) If no leaks are present take a dew point reading on transformer in order to set parameters for processing.



- 15) When task is completed begin setting up for the vacuum oil processing if dew point is acceptable. Contractor shall perform an initial Dew Point (12hr equilibrium) measurement. **Review results with Customer representative.** Initial calculated moisture content shall be below 1.0%.

* Contractor shall provide Boom truck and Gasket material. Gasket material shall be OEM.

2-6.7 Oil Filling. Refill transformer with vacuum degasified oil per the following specifications and OEM requirements.

- 1) Pull vacuum at a level of 1 Torr (1,000 micron, 1mm of Hg) less and hold for a minimum of 24 hours.
- 2) Conduct vacuum leak test.
- 3) If Online Dew Point exceeds 1% (Customer to be notified to discuss possible dry out procedure). Verify the transformer sits for at least 12 hours with Dry Air before the Dew Point is taken.
- 4) If moisture level is acceptable, begin Vacuum oil process as follows
 - a. Pull vacuum at a level of 1 Torr (1,000 micron, 1mm of Hg) less and hold for a minimum of 6 hours
 - b. Elevate core/coil temperature, if necessary (included in bid)
 - c. Begin vacuum fill
 - d. Vacuum fill transformer oil while maintaining a vacuum level of 5 Torr or less
- 5) Verify from the Oil Processing Log that the processed inlet oil for the transformer is heated to 55 °C (+/- 5°C) and held within that temperature range, to keep the oil free of moisture but is not to cause damage from excessive heat.
- 6) Contractor shall budget for a minimum of two (2) passes for processing transformer oil. The exact number of passes will be determined based on the dew point and dryness of the transformer.
- 7) Break vacuum and ensure oil is at proper level taking into account temperature.
- 8) Transformer will be pressurized and checked for leaks.
- 9) If no leaks are present, setup for testing.
- 10) Contractor will be responsible for any make-up oil if needed.

2-6.8 Testing *

- 1) Overall Power Factor
- 2) Bushing Power Factor C1 and C2
- 3) Transformer Turns Ratio (current tap positions)
- 4) Core & Winding Insulation Resistance
- 5) Single Phase Excitation

- 6) SFRA
- 7) Oil tests after filling
 - a. Moisture content
 - b. Power factor
 - c. Dielectric Strength
 - d. Dissolved gas analysis
- 8) Test new gauges

***Contractor shall review test results with RPU representative.**

2-6.8 Testing Equipment. Contractor shall use Doble testing equipment in performing all tests. No exception will be accepted unless approved by RPU's Engineer. All equipment shall be calibrated. The contractor shall provide list of the test equipment in addition to the calibration certificate at least two weeks prior to commencing the work.

2-6.9 Corrosion and Transformer Cleanup. Corroded spots should be wire brushed and painted with a rust inhibitor. Take extra care that rust and dirt particles never fall into the transformer. The results could be catastrophic, when the transformer is energized.

Contractor shall be responsible for cleaning oil spots on the transformer and provide paint touchup if needed. See Exhibit D for pictures.

2-6.10 Bidder will be required to demonstrate the following experience. RPU requires Contractors to demonstrate proficient, applicable work experience in providing construction services. Bid Proposals will be considered only from Contractors in the business of regularly providing transformer testing, oil processing and replacement of gaskets in the field.

Subcontractors may only be used if the total value of subcontracted work constitutes less than 50% of the total dollar value of the Specific Project excluding specialty items as required by section 2-3.2 of the Standard Specifications. Contractor shall only use qualified subcontractors to do work in any category.

2-6.10 Contractor Responsibility for Work. The Contractor shall furnish all materials, equipment, tools, supervision, labor, services and incidentals necessary to complete the Work in a satisfactory manner.

2-12 Supervision. RPU personnel will be present at all time while Contractor is on site. RPU's working hours are 7AM-3:30PM (Monday-Friday). The City observes the following holidays:

January 1st	New Year's Day
Third Monday in January	Martin Luther King Jr's Birthday
Third Monday in February	President's Day
Last Monday in May	Memorial Day
July 4th	Independence Day
First Monday in September	Labor Day
Second Monday in October	Columbus Day
November 11	Veteran's Day
Fourth Thursday in November	Thanksgiving Day
The day following Thanksgiving Day	Day after Thanksgiving Day
December 25	Christmas Day

If and when the Contractor wishes to perform any work beyond the regular 9-hour working day, the Contractor shall submit a written request to the Engineer no less than two working days before the planned start of such work. If additional hours are approved by the Engineer, the Contractor shall contact the Substation Electric Supervisor to coordinate RPU's personnel supervision.

If a holiday falls on a Saturday, it will be observed on the preceding Friday. If a holiday falls on a Sunday, it will be observed on the following Monday.

Riverside Public Utilities
Kenneth Coffey
Utilities Electric Supervisor
(951) 351-6346
kcoffey@riversideca.gov



EXHIBIT "B"
COMPENSATION

A handwritten signature or set of initials, possibly reading '12' or '122', located in the upper right corner of the page.

Bid RPU-7507 Response

Bid RPU-7507 Details

Bid # : RPU-7507
Type : Bid
Subject : RERC Transformers Reconditioning Project

Due : Sep 22, 2017 4:00 PM
Estimated Value :

Response Details

Bidder : Reinhausen Manufacturing
DIR # :
CSLB # :
Submitted : Sep 20, 2017 10:17 AM
Status : Apparent Low Bidder
Total : \$93,556.00

Bid Line Item Responses

Item No.	Item Code	Item Description	Quantity	Unit of Measure	Unit Price	Extension Price
1		Mobilization & Demobilization	1	LS	\$17,480.00	\$17,480.00
2		Labor for GSU-1 Serial #70290704 & GSU-2 Serial #70300804	2	EA	\$22,980.00	\$45,960.00
3		Testing	2	EA	\$4,800.00	\$9,600.00
4		Site Cleanup and Waste Disposal	1	LS	\$2,400.00	\$2,400.00
5		Report	2	EA	\$500.00	\$1,000.00
6		Oil level Indicator Gauge – See Section 2-6.6(12)	2	EA	\$645.00	\$1,290.00
7		Winding Temperature Gauge – See Section 2-6.6(12)	2	EA	\$1,175.00	\$2,350.00
8		Oil Temperature Gauge – See Section 2-6.6(12)	2	EA	\$1,175.00	\$2,350.00
9		Gasket sets – See Section 2-6.6(3-11)	2	EA	\$1,500.00	\$3,000.00
10		Oil Processing	1	LS	\$8,126.00	\$8,126.00

Total: \$93,556.00



EXHIBIT "C"

KEY PERSONNEL

Luis Cahdinha – Project Manager

A handwritten signature or set of initials, possibly 'LC', in black ink.