

Working Together for a Better Tomorrow. Today.

BID SPECIFICATION PACKAGE

for

BOILER INSPECTION AND REPAIR- FALL 2023 OUTAGE

C132833

Bid Opening Date/Time

August 29, 2023 at 2:00 p.m. (local time) City of Grand Island, City Hall 100 East 1st Street, P.O. Box 1968 Grand Island, NE 68802-1968

Contact Information

Tylor Robinson

City of Grand Island – Utilities Department
Platte Generating Station
Email: trobinson@giud.com
Phone: 308/385-5496

Date issued: August 4, 2023

ADVERTISEMENT TO BIDDERS FOR BOILER INSPECTION AND REPAIR-FALL 2023 OUTAGE FOR CITY OF GRAND ISLAND, NEBRASKA

Sealed bids for Boiler Inspection and Repair-Fall 2023 Outage will be received at the office of the City Clerk, 100 E. First Street, P.O. Box 1968, Grand Island, Nebraska 68802, until the revised bid opening date of **Tuesday, August 29, 2023 at 2:00 p.m. local time,** FOB the City of Grand Island, freight prepaid. Bids will be publicly opened at this time in the Grand Island City Hall City Clerk's Office located on 1st floor of City Hall. **Submit an original and three copies** if **submitting by mail.** Bid package and any Addendas are also available on-line at www.grand-island.com under Business-Bids and Request for Proposals-Bid Calendar under the bid opening date. Bidding documents, plans and specifications for use in preparing bids may be downloaded from the QuestCDN website www.QuestCDN.com for a \$42.00 fee. Submitting through QuestCDN requires one original document of the bid to be uploaded. **Bids received after the specified time will not be considered**.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Successful bidder shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

Each bidder shall submit with the bid a certified check, a cashiers check, or bid bond payable to the City of Grand Island Treasurer in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within fifteen (15) days at the bid price if accepted by the City. Your certified check, cashiers check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information and correct number of copies in clearly marked and separate envelopes will result in your bid not being opened or considered. Only surety companies authorized to do business in the State of Nebraska may issue bid bonds.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The Purchaser reserves the right to reject any or all bids, to waive irregularities therein, and to accept whichever bid that may be in the best interest of the City, at its sole discretion.

No bidder may withdraw his/her bid for a period of thirty (30) days after date of bid opening.

RaNae Edwards, City Clerk

Advertised

BOILER INSPECTION AND REPAIR-FALL 2023 OUTAGE BID DATA FORM

CITY OF GRAND ISLAND GRAND ISLAND, NE

THE undersigned Bidder, having examined all specifications and other bidding documents, and all addenda thereto, and being acquainted with and fully understanding all conditions relative to the specified materials and equipment, hereby proposes to provide all necessary supervision, materials, equipment, and labor to to support the inspection and repair of steam generator components and auxiliary's equipment as needed during the Platte Generating Station Fall 2023 Outage FOB the City of Grand Island, freight prepaid, at the following price:

ITEM DESCRIPTION		EXTENDE	ED COST
**Base Bid:			
Material	\$		
Labor	\$		
Applicable Sales tax*	\$		
Total Base Bid (Not to Exceed)	\$		
**Above bid shall include a lump sum scope of work as defined in Section 3 clearly marked separate sheet, a bid i Specification.	3.0 of the Detailed Specit	fication. Bido	ler shall include, on a
Exceptions Noted - Bidder acknowledg those exceptions are fully explained on			
Bidder Company Name		Da	ate
Company Address	City	State	Zip
Print Name of Person Completing Bid		S	ignature
Email:	Telephone	e No	
* If bidder fails to include sales tax in the price, the City will add a 7.5% figure to the actual sales tax due. The State of Nebra and maintenance services are taxable on	e bid price for evaluation p ska Department of Revenu	ourposes; howe	ever, the City will only pay
By checking this box, Bidder acknow 4, 2023 to align with the projected o		pletion date of	the project is November
By checking this box, Bidder ackn considered in Bid preparation.	owledges that Addenda I	Number(s)	were received and

SELECT TAX OPTION:		
SELECT NEBRASKA TAX OPTION: According to Nebraska Sales and Use Tax Requirements, Section 1-017, Contractors, check which option you have selected to file with the Nebraska Department of Revenue:		
Nebraska law provides a sales and use tax exemption on contractor labor charges for the construction, repair, or annexation of any structure used for the generation, transmission, or distribution of electricity. Separately stated contractor labor would be exempt, all materials are taxable according to the contractor's option.		
Option 1 (Section 1-017.05) Option 2 (Section 1-017.06) Option 3 (Section 1-017.07)		
If the Nebraska sales and use tax election is not filed or noted above, the contractor will be treated as a retailer under Option 1 for sales and use tax purposes.		
N/A – Not Registered with the State of Nebraska.		

Note: If Bidder supplies individual unit pricing information as supplemental pricing to the base material and labor cost above, said individual pricing is proprietary information and should not be released under a public records request. The total base bid is not considered proprietary information and will be released pursuant to City Procurement Code.

The City reserves the right to reject any bid section(s) submitted by the successful bidder. In submitting the bid, it is understood that the right is reserved by the City to reject any and all bids; to waive irregularities therein and to accept whichever bid that may be in the best interest of the City. It is understood that this bid may not be withdrawn by the bidder until after thirty (30) days from bid opening.

In submitting the bid, the bidder acknowledges the bid guarantee will be forfeited to and become the property of the City of Grand Island, Nebraska, as liquidated damages should this bid be accepted and a contract be awarded to them and they fail to enter into a contract in the form prescribed and to furnish the required bonds within fifteen (15) days, but otherwise the aforesaid bid guarantee will be returned upon signing the Contract and delivering the approved bonds.

Insurance: Bidder acknowledges that their bid includes compliance with the attached insurance requirements.

The Bidder agrees to furnish the required performance and payment bond and to enter into a contract within fifteen (15) days after acceptance of this Bid, and further agrees to complete all work covered by the foregoing bid in accordance with specified requirements. No work shall commence until the Certificate of Insurance and bonds (when required) are approved by the City and the Contract is executed. The proposed work can commence after the Contract is signed and the required bond is approved.

End of Bid Data Form

INSTRUCTIONS TO BIDDERS

1. GENERAL INFORMATION.

The following instructions outline the procedure for preparing and submitting Bids. Bidders must fulfill all requirements as specified in these Documents.

2. TYPE OF BID.

Bidders shall be required to submit prices for all items listed in the Bid Data Form.

3. PREPARATION OF BIDS.

Bidders shall use only the Bid Data Form provided in these Documents. All blank spaces in the Bid Data Form must be filled in, preferably in BLACK ink, in both words and figures where required. No changes to the wording or content of the forms is permitted. Written amounts shall govern in case of discrepancy between the amounts stated in writing and the amounts stated in figures.

Prices stated shall be f.o.b. with freight and full insurance paid by Bidder, to the job site located in Grand Island, Nebraska.

The Bidder shall acknowledge receipt of all Addenda in the Bid Data Form. Bids received without acknowledgement or without the Addendum enclosed will be considered informal.

Individual unit pricing as listed on the Bid Data Form or supplied as supplemental information may be deemed proprietary information and not be released under a public records request. The total amount of the bid is not considered proprietary information and will be released pursuant to City Procurement Code.

4. SUBMISSION OF BIDS.

All Bids must be submitted intact with the correct number of copies no later than the time prescribed, at the place, and in the manner set forth in the ADVERTISEMENT FOR BIDS. Bids must be made on the Bid Data Form provided herein. Each Bid mailed must be submitted intact in a sealed envelope, so marked as to indicate its contents without being opened, and delivered in person or addressed and mailed in conformance with the instructions in the ADVERTISEMENT FOR BIDS.

5. BID SECURITY.

Bids must be accompanied by cash, a certified check, or cashier's check drawn on a bank which is insured by the Federal Deposit Insurance Corporation, or a bid bond issued by a Surety authorized to issue such bonds in the state where the Work is located, in the amount of 5 percent of the bid amount payable to OWNER. This bid security shall be given as a guarantee that the Bidder will not withdraw their Bid for a period of thirty (30) days after bid opening, and that if awarded the Contract, the successful Bidder will execute the attached Contract within the time specified.

The Attorney-in-Fact that executes this bond on behalf of the Surety must attach a notarized copy of his/her power of attorney as evidence of his/her authority to bind the Surety on the date of execution of the bond. Where State Statue requires, certification by a resident agent shall also be provided.

6. RETURN OF BID SECURITY.

Within fifteen (15) days after the award of the Contract, the OWNER will return the bid securities to all Bidders whose Bids are not to be further considered in awarding the Contract. All other retained bid

securities will be held until the Contract has been finally executed, after which all bid securities, other than Bidders' bonds and guarantees which have been fortified, will be returned to the respective Bidders whose Bids they accompanied.

7. BASIS OF AWARD.

The award will be made by the OWNER on the basis of the Bid from the lowest responsive, responsible Bidder which, in the OWNER's sole and absolute judgment will best serve the interest of the OWNER. All Bids will be considered on the following basis:

Delivery time Conformance with the terms of the Bid

Bid price Documents

Cost of installation

Suitability to project requirements Responsibility and qualification of Bidder

The OWNER reserves the right to reject all Bids, or any Bid not in conformance with the intent of the Bid Documents, and to waive any informalities and irregularities in said Bids.

8. EXECUTION OF CONTRACT.

The successful Bidder shall, within fifteen (15) days after receiving notice of award, sign and deliver to the OWNER the Contract hereto attached together as required in these Bid Documents. Within fifteen (15) days after receiving the signed Contract from the successful Bidder, the OWNER's authorized agent will sign the Contract. Signature by both parties constitutes execution of the Contract.

9. TIME OF COMPLETION.

The time of completion of the Work to be performed under this Contract is the essence of the Contract. The time allowed for the completion of the Work is stated in the Bid Data Form.

10. GRATUITIES AND KICKBACKS.

City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefor. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

11. FISCAL YEAR.

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into by and between [SUCCESSFUL BIDDER], hereinafter called the Contractor, and the CITY OF GRAND ISLAND, NEBRASKA, hereinafter called the City.

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for bids to be published for BOILER INSPECTION AND REPAIR-FALL 2023 OUTAGE; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the bids submitted, and has determined the aforesaid Contractor to be the lowest responsive and responsible bidder, and has duly awarded to said Contractor a contract therefore, for the sum or sums named in the Contractor's bid, a copy thereof being attached to and made a part of this Contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself, himself/herself, or themselves, and its, his/her, or their successors, as follows:

<u>ARTICLE I</u>. That the following documents shall comprise the Contract, and shall together be referred to as the "Agreement" or the "Contract Documents";

- 1. This Contract Agreement.
- 2. City of Grand Island's Specification for this project.
- 3. [NAME OF SUCCESSFUL BIDDER] bid signed and dated [DATE OF BID].

In the event of any conflict between the terms of the Contract Documents, the provisions of the document first listed shall prevail.

ARTICLE II. That the Contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other construction materials, services and facilities; (b) furnish, as agent for the City, all materials, supplies and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the Contract documents as listed in the attached General Specifications, said documents forming the Contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this Contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's bid;

ARTICLE III. That the City shall pay to the Contractor for the performance of the work embraced in this Contract and the Contractor will accept as full compensation therefore the sum (subject to adjustment as provided by the Contract) of **[DOLLAR AMOUNT]** (\$00.00) for all services, materials, and work covered by and included in the Contract award and designated in the foregoing Article II; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

The total cost of the Contract includes:

Materials	\$.00
Labor	\$.00
Applicable Sales Tax	<u>\$</u>	.00
Total	\$.00

Contractor Tax Option _____

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

ARTICLE IV. The Contractor hereby agrees to act as agent for the City in purchasing materials and supplies for the City for this project. The City shall be obligated to the vendor of the materials and supplies for the purchase price, but the Contractor shall handle all payments hereunder on behalf of the City. The vendor shall make demand or claim for payment of the purchase price from the City by submitting an invoice to the Contractor. Title to all materials and supplies purchased hereunder shall vest in the City directly from the vendor. Regardless of the method of payment, title shall vest immediately in the City. The Contractor shall not acquire title to any materials and supplies incorporated into the project. All invoices shall bear the Contractor's name as agent for the City. This paragraph will apply only to these materials and supplies actually incorporated into and becoming a part of the finished product of the BOILER INSPECTION AND REPAIR-FALL 2023 OUTAGE.

<u>ARTICLE V</u>. That the Contractor shall start work as soon as possible after the Contract is signed and the required bonds and insurance are approved, and that the Contractor shall deliver the equipment, tools, supplies, and materials F.O.B. <u>Platte Generating Station</u>, and complete the work on or before *November 4, 2023* to align with the projected outage end date.

ARTICLE VI. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this Contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. During the performance of this Contract, the Contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis, of race, color, religion, sex, national origin, age or disability. The Contractor agrees to comply with all applicable Local, State and Federal rules and regulations. The Contractor agrees to maintain a drug-free workplace policy and will provide a copy of the policy to the City upon request. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

ARTICLE VII. Gratuities and kickbacks: City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any

program requirement or a contract or subcontract, or to any solicitation or proposal therefor. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

[SUCCESSFUL BIDDER]

By	Date
CITY OF GRAND ISLAND, NEBRASKA	AFT
By Mayor	Date
Attest:City Clerk	
The Contract is in due form according to law	and hereby approved.
	Date
Attorney for the City	



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REQUEST FOR BIDS - GENERAL SPECIFICATIONS

The Bid shall be in accordance with the following and with all attached BID DATA and DETAILED SPECIFICATIONS.

All prices are to be furnished and installed FOB, Grand Island, Nebraska. All prices shall be firm, and shall include all sales and use taxes as lawfully assessed under laws and regulations of the State of Nebraska. * If bidder fails to include sales tax in their bid price or takes exception to including sales tax in their bid price, the City will add a 7.5% figure to the bid price for evaluation purposes; however, the City will only pay actual sales tax due.

Mailed bids shall include the following on the **outside** of the mailing envelope: "Boiler Inspection and Repair-Fall 2023 Outage". All bids submitted by mail must include <u>an original and three copies</u> of the bid. The bid specification and on-line bidding forms are also available at http://www.grand-island.com/business/bids-and-request-for-proposals/bid-calendar under the bid opening date and "Click here for bid document link" through QuestCDN for a \$42.00 fee. If submitting through QuestCDN, <u>one</u> original document of the bid is required to be uploaded. No verbal bids will be considered. All sealed bids are due no later than (revised bid opening date) Tuesday, August 29, 2023 at 2:00 p.m. local time. to:

Mailing Address: City Clerk Street Address: City Clerk

City Hall City Hall

P. O. Box 1968 100 E. First Street

Grand Island, NE 68802-1968 Grand Island, NE 68801

Bids will be opened at this time in the City Hall City Clerk's Office located on 1st floor of City Hall. Any bid received after the specified date will not be considered.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Contractor shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

The equipment and materials must be new, the latest make or model, unless otherwise specified. Prior to approving the invoice for payment, the City reserves the right to thoroughly inspect and test the equipment to confirm compliance with specifications. Any equipment or material which does not meet the City's requirements will be returned at vendor's expense for correction. The invoice will be paid after approval at the next regularly scheduled City Council meeting and occurring after departmental approval of invoice; the City Council typically meets the second and fourth Tuesday of each month. Invoices must be received well in advance of Council date to allow evaluation and processing time.

Each bidder shall submit with the bid a certified check, a cashier's check, or bid bond payable to the City of Grand Island in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the Bidder and the entering into a contract within fifteen (15) days at the bid price if accepted by the City. Your certified check, cashier's check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information and correct number of copies in clearly marked and separate envelopes will result in your bid not being opened or considered. Only surety companies authorized to do business in the State of Nebraska may issue bid bonds.

Successful bidder shall comply with the City's insurance requirements; All bids shall be valid for at least thirty (30) working days after the bid deadline for evaluation purposes.

All bids must be on the bid form and must be signed and dated to be accepted. If exceptions and/or clarifications are noted to the bid, those exceptions must be fully explained on a separate sheet, clearly marked, and included with the Bid. Any changes that are found made to the original bid specification, other than Owner generated Addendums, would result in your bid not being considered. Please contact Tylor Robinson at 308-385-5495 or email trobinson@giud.com for questions concerning this specification.

BOILER INSPECTION AND REPAIR

Fall 2023 Outage Grand Island Utilities Department - Detailed Specification

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BOILER INSPECTION AND REPAIR

Fall 2023 Outage Grand Island Utilities Department - Detailed Specification

1.0 PROJECT DECRIPTION

1.1 BACKGROUND

The Unit 1 steam generator at Platte Generating Station is a tangential fired, natural circulation, superheat/reheat, pulverized coal-fired boiler manufactured by ABB-CE (CE Contract No. 13477). The steam generator produces 765,000 lb/hr (MCR) of steam at 1000° F and 1800 psi which is delivered to a 100,000 kW steam turbine. The unit uses Powder River Basin Coal from various mines in the basin.

Steam generator auxiliary equipment includes a vertical rotor, Ljungstrom regenerative air heater (type 27-VI-90), a United Conveyor water impounded "W" type bottom ash storage hopper, and four CE-Raymond pulverizers (type 683 RS).

1.2 LOCATION

The Platte Generating Station is located at 1035 W. Wildwood Drive, two (2) miles south of Grand Island, Nebraska. The plant entrance is located two (2) miles south of U.S. Highway 34 and 1½ miles east of U.S. Highway 281.

1.3 CONTACT

Question regarding this specification may be directed to:

Tylor Robinson
Platte Generating Station
1035 W. Wildwood Dr.
Grand Island, NE 68801
Ph. (308) 385-5495
trobinson@giud.com

2.0 SCOPE

2.1 GENERAL

This work will generally consist of providing labor, equipment, materials and supervision on a time and material basis to support the inspection and repair of steam generator components and auxiliary's equipment as needed during the Platte Generating Station Fall 2023 Outage, currently scheduled for September 21, 2023 through November 4, 2023.

Such work may consist of:

- Hydro testing of the boiler with inspection for tube leaks
- Boiler tube repairs
- Boiler tube surface preparation for UT inspection
- Installation of tube shields

- Repair of boiler tube alignment attachments
- Weld repair of cracks in boiler plate steel
- Weld repair of cracks in flue gas ductwork
- Repair of Boiler Refractory
- Expansion Joint Replacement

The Contractor shall cooperate with the Owner's representatives and other contractors on site in maintaining individual work areas, laydown and staging areas, break areas and parking areas as to minimize interference with one another's work efforts. The Contractor shall attend periodic joint scheduling meetings to enhance communications and coordination amongst the various Contractors on site.

The Owner anticipates locating tooling and equipment for boiler work under this specification on the ground level below the boiler inside the plant and throughout all levels of the main boiler and adjacent platforms. A staging and laydown area will be provided at the ground level immediately outside the southeast corner of the unit. A break area will be provided.

The City shall provide the materials mentioned, including all tubing, tube shields and clips, electrical power and electrical connections, and a drinking water source. The Owner shall provide temporary, portable restroom facilities.

The Contractor shall provide required hand tools, hoists, chain falls, cutting torches and gases, welding machines, welding leads and consumables, and all other equipment and materials necessary to completely perform the work.

2.2 BOILER INSPECTION

Routine inspections of furnace wall tubes, drum, and headers should be made during semi-annual outages.

During the inspection drums should be opened and hand hole plates removed from headers. The condition of the drum internals should be checked, and internal surfaces inspected for deposits. Tubes should be spot checked, and the tube ends inspected internally for deposits. Where required deposits should be removed, and headers, drums and tubes flushed out with clean water.

Furnace tubes should be examined externally for blistering, burning, corrosion, erosion and cracking. Pay close attention to areas surrounding soot blowers as they are susceptible to erosion.

All Inspections shall be thorough and comprehensive. They shall be made by competent personnel, familiar with boiler operation and maintenance. A record of the inspection shall be kept in a uniform manner so that the results of any change can be compared with former conditions.

Inspections of tubes, as a result of tube failures or conditions expected to lead to failures, should be even more thorough.

2.2.1 Pressure Components

The Contractor shall perform inspections on the steam generators pressure components as soon as possible so that any problem areas discovered can be evaluated and repaired as required. Inspection process shall consist of but not be limited to:

- Apply a Hydrostatic test in accordance with plant procedures and Boiler Code requirements.
- A visual inspection of boiler tubing. Specifically identify soot blower and ash erosion damage in the 1st, 2nd, 3rd, and 4th tubes in from each soot blower to such extent as feasible.
- Conduct tube thickness testing on the tubes around each soot blower wall opening
 (four tests, one at each point of the compass) and on every unshielded tube along
 soot blower paths (one test, in the middle of the path unless a more polished area is
 observed), including the economizer but not including the horizontal superheater.
 Review the results with the City to identify any repairs needed immediately and
 document the results for the City in a report.
- Check elements for alignment and evidence of warping or bulging of unit tubing.

2.2.2 Non-Pressure Components

The Contractor shall complete inspections of the steam generators non-pressure components essential to performance and reliability. These duties shall include, but not be limited to:

- Check supports, spacers, alignment bars, and seal plates for proper location and condition.
- Inspect the refractory in all the nose arch, soot blower openings, observation doors, and man way doors.
- Inspect tube shield conditions and document tube shields that need replaced.
- Inspect the refractory and screens in the bottom ash hopper.
- Inspect the Penthouse and all dead air spaces for casing cracks.

2.2.3 Boiler Steam Drum

The contractor shall perform a thorough inspection of the boiler steam drum. The drum inspection shall consist of a visual inspection, checking the drum for corrosion, pitting, or solids carryover. The Contractor shall verify the condition and arrangement of the drum internals.

2.2.4 Soot Blower Inspection

The Contractor shall check for misalignment of the soot blowers, check the depth and travel of all wall blowers, and adjust any soot blowers that are out of specification. The contractor shall pound refractory into the soot blower openings as needed.

2.2.5 Deaerator

The Contractor shall perform routine visual and NDE inspections on the deaerator working components and vessels. Ensure that trays are securely held down and that spray nozzles have adequate tension and are not plugged. Verify that steam box doors swing freely and look for cracks in the steam box.

2.2.6 Steam Air Heater

The Contractor shall pressure test and visually inspect the steam coil air heater for the existence of leaks in the tubes, headers, and connections, and for the accumulation of foreign matter on the finned surfaces.

2.3 BOILER REPAIRS

All repairs shall be done by competent and qualified personnel and all welding shall be in accordance with applicable codes and standards relating to repairing power boilers and pressure vessels.

The Contractor will receive approval from the City's representative for these repairs prior to starting, shall track all repairs and hours, and report status and hours to the City representative daily. Fully document before and after repairs.

2.3.1 Pressure Components

Contractor shall review all recommendations for pressure part repairs with the Owner's Representative. Those repairs authorized by the Owner will be performed by the Contractor and are expected to generally consist of pad welding and partial tube replacements. Those repairs authorized by the Owner will be performed by the Contractor who shall track all repairs and hours, and report status and hours to the City representative daily, fully document before and after repairs.

2.3.2 Non-Pressure Components

Review all repair recommendations with the Owner's representative to determine scopes of repair based on inspection results. Contractor shall perform all repairs authorized by the Owner, including but not limited to:

- 1. Replace tube shields that are missing. Tube shields will be furnished by the City.
- 2. Repair damaged alignment bars.
- 3. Repair dislodged spacer bars.
- 4. Repair casing cracks in the penthouse and dead air spaces.
- 5. All other non-pressure component repairs identified and authorized by the Owner.

2.3.3 Boiler Refractory

The contractor shall repair boiler refractory in sootblower openings, observation doors, and man way doors. The Contractor shall repair the refractory curb at the upper end of the nose arch and side walls. The contractor will be responsible for repairing the refractory seal were boiler roof tubes and wall tubes meet. Refractory shall be furnished by the contractor.

Refractory shall be a high alumina, phosphate bond plastic refractory, Plibrico SR 90 or approved equal. Approved refractory shall have a service limit of 3400°F, 5cc loss per ASTM C 704 abrasion resistance, and be approved for use in coal fired utility boilers. Refractory shall be installed per manufacturer guidelines.

2.4 DUCTWORK REPAIRS

The Contractor shall be responsible for making weld repairs to the ductwork as required to prevent air in leakage. Ductwork repairs may include welding, patching, and replacing gaskets. The plant has seen an increase in the air in leakage at the precipitator.

2.5 BURNER CORNER EQUIPMENT

The original corner burners systems were replaced with low NOx burner equipment in 2012. Refer to the drawings included with this specification for further details.

a. Inspect all coal and air nozzle tips, deflector plates and burner equipment from the furnace side in all 4 corners including the upper SOFAs in all 4 corners. Inspect all 4 windbox dampers, linkages, baffle plates. Disassemble the 4 burner outside corner cover plates to maximize inspection access to all windbox components. The intention is to be able to inspect all components in all 4 corners. The City will furnish all replacement parts, which shall be installed by the Contractor, except refractory, which shall be furnished and installed by the Contractor.

- b. All 4 upper coal nozzle tips shall be replaced. All parts will be provided by the Owner. This requires the removal of the coal nozzle assembly from the windbox, generally consisting of the following steps:
 - 1. Secure the coal piping.
 - 2. Remove the coal pipe spool pieces and elbows between the coal head elbow and the stationary coal nozzle. Note the position of anti-roping deflector plates in the fuel piping for proper orientation at reinstallation.
 - 3. Remove the windbox cover plates.
 - 4. Disconnect the coal tip linkage at the bell crank.
 - 5. Remove the stationary nozzle/coal tip assembly from the windbox compartment.
 - 6. Disconnect the horizontal adjusting link from the adjustable coal tip.
 - 7. Remove the pivot pins from the coal tip and remove the adjustable tip and seal plate from the stationary nozzle.
 - 8. Replace the coal tip and pins with parts provided by the Owner.
 - 9. Pivot pins are to be lubricated with a high temperature tungsten disulfide lubricant provided by the Owner.
 - 10. Reinstall the coal nozzle assembly by reversing the procedures listed above.
- c. All 4 end air tips shall be replaced. All parts will be provided by the Owner. This requires removal of the end air tip from the furnace side through the following steps:
 - 1. Disconnect the horizontal tilt link from the bell crank.
 - 2. Secure the nozzle tip so that it cannot tilt of fall into the furnace.
 - 3. Remove the pivot pin retaining bolt and plate.
 - 4. Remove the pivot pin by screwing a ½"-13 UNC bolt into the head of the pivot pin to assist in its removal.
 - 5. Carefully remove the adjustable air tip from the windbox compartment.
 - 6. Replace the end air tip with part provided by the Owner.
 - 7. Pivot pins are to be lubricated with a high temperature tungsten disulfide lubricant provided by the Owner.
 - 8. Installation of the new tip is accomplished by reversing the above steps.
- d. It is expected that the bushings on the windbox dampers may need to be replaced. The Contractor will expose at least one of the corners as soon as possible at the start of the outage so a plant representative can inspect the bushings and determine the proper course of action.
- e. The City will provide any necessary parts that need to be replaced based on inspection recommendations other than normal consumable items. Such additional corner burner work will be performed under the 500 man hour allotment under 'B. Non-pressure Component Repairs'.
- f. The Contractor shall notify the City when the flame scanning equipment needs to be removed. The City will remove the flame scanners, store in a safe area, and replace later when available. The Contractor shall perform needed burner corner disassembly in order for the City to pull the flame scanners.
- g. The Contractor shall demonstrate to the City the full and proper range of burner corner tilt position following component replacement.

2.6 TUBE SAMPLES

Contractor shall remove 15 tube samples from the boiler for metallurgical analysis by others. Contractor shall install new tubing in place of the samples with tubing to be provided by the Owner. Refer to attached drawings for information on the approximate locations, which will generally consist of:

- Sample 1 Low Temperature Superheat, rear horizontal outlet tube
- Sample 2 Nipple tube section from finishing superheat
- Sample 3 Tube section from finishing superheat
- Sample 4 Nipple Section from superheat pendant platen
- Sample 5 Nipple tube section from finishing reheat
- Sample 6 Tube section from finishing reheat assembly
- Sample 7 Tube section from reheat pendant crossover
- Sample 8 Tube section from superheat finishing section
- Sample 9 Tube section from nose arch
- Sample 10 Tube section from left side waterwall
- Sample 11 Tube section from right side waterwall
- Sample 12 Nipple tube section from economizer inlet
- Refer to the attachment 'tube samples.pdf" for additional information on required sample configurations and sample materials for Samples 1-12. These 12 samples duplicate a set taken in 1997 for comparative purposes.
- Sample 13 SH Pendant Platen Tube, 2 1/8" OD x .320 MWT, T22 to 2 1/8" OD x .200 MWT, 347H
- Sample 14 Bottom Slope tube, 2.5" x .200 MWT, SA210, Grade A1

2.7 REPORT

The Contractor shall produce a report that in detail describes findings during the inspection of the steam generator. No later than 30 days after project completion, the Contractor shall submit two (2) hard copies and (1) one .pdf file of the report. The Contractor shall document in the report repairs that were completed during the outage. The report shall document the current condition of the boiler during the outage and describe in detail recommended future repairs. The report shall contain subsections of the inspection consisting of, but not limited to:

- Introduction
- Summary and Conclusions
- Recommendations
- Water and Saturated Steam Circuits
 - o Economizer
 - o Steam Drum
 - Water Wall Tubes
- Superheat and Reheat Circuits
 - Backpass Walls
 - Horizontal Superheat
 - Superheat Pendant Platens
 - Finishing Superheat
 - Reheat Assemblies
- Enclosures
 - Penthouse

- Nose Arch Dead Air Space
- Lower Dead Air Spaces
- Bottom Ash Hopper

Ductwork

- Secondary Air Ducts
- Mill Hot Air Ducts
- Windbox Ducts
- Air Preheater
- Pulverizers
 - Pulverizer A
 - Pulverizer B
 - Pulverizer C
 - o Pulverizer D
- Precipitator

2.8 WARRANTY

The Contractor warrants that the Services will be performed with the degree of skill and care that is required by current, good, and sound professional procedures and practices, and in conformance with generally accepted professional standards prevailing at the time the Services are performed to ensure that all Services performed are correct and appropriate.

The Contractor warrants all work under the Contract to be of good quality and free from any defective or faulty material and workmanship. Contractor agrees to guarantee all work under this Contract for a period of one (1) year from the date of Final Settlement by the Owner. If any unsatisfactory condition or damage develops within the time of this guarantee due to materials or workmanship that are defective, inferior, or not in accordance with the Contract, as reasonably determined by the Owner, then the Contractor shall, when notified by the Owner, immediately place such guaranteed Work in a condition satisfactory to the Owner. For any Work so corrected, Contractor's obligation hereunder to correct defective Work shall be reinstated for an additional one-year period, commencing with the date of acceptance of such corrected Work.

3.0 BIDDING

The Contractor shall include in his bid a lump sum not-to-exceed estimate of all costs associated with the scope of work herein. This includes, but is not limited to all expenses, equipment, labor, mobilization and demobilization, and subcontractors. Please ensure that all bids contain the following as a minimum:

3.1 MOBILIZATION

The bid shall include a firm price for all Mobilization, Demobilization, Tools, Equipment, Supplies, PPE, Expendables, Supervision, and Project Management, Overhead, Fixed Costs, and Expenses.

3.2 SUPERINTENDENT

The bid shall include a lump sum T&M cost of labor for a Site Superintendent to be available on site 6-days/week, 10 hours per day from September 25th – November 4th, 2023. The Superintendent shall be responsible for compiling a report of boiler conditions as described in the scope of work. Actual dates may vary based on outage start date.

3.3 INSPECTION AND REPAIR

The bid shall include a lump sum T&M cost of labor for an inspection and repair crew consisting of 1 BM General Foreman and 3 BM Journeymen to be available on site 6-days/week, 10 hours per day from September 25th – November 4th, 2023.

The bid shall include a lump sum T&M cost to increase crew size consisting of 1 BM General Foreman and 15 BM Journeymen to be available on site 6-days/week, 10 hours per day from October 2nd – October 27th, 2023.

3.4 RATES

The Bid shall include, as a separate T&M rate attachment, firm unit pricing for all labor, equipment, sundries and expenses reflecting the charges to be used in billing the T&M portions of the work as well as for making any adjustments that may be required for new work scope additions, additional services other than what is required in this specification or reductions in the same. All travel time and per diems shall be included in the composite hourly labor rates. The City of Grand Island will not be responsible for travel expenses to and from plant site. The City of Grand Island will not be responsible for any associated overnight expenses.

3.4.1 Refractory

The contractor shall submit unit costs for refractory. These unit costs shall represent the amounts and units of quantity to be invoiced T&M. The contractor shall include in the bid a per pound price for 1000 lbs of Plibrico, Plistix SR-90 or approved equal. Refractory shall be billed T&M. All unused refractories shall remain the property of the contractor.

3.4.2 Terms and Conditions

Provide all other proposed terms and conditions which will be in effect during the performance of the work as a separate attachment **with the bid**. Any exceptions the bidder wishes to take regarding the Owners specifications and contract documents must be submitted **with the bid**.

Time is of the essence in the evaluation of proposals, the execution of contract documents and/or issuance of a Purchase Order for the execution of the work. Submittal of bids that include terms and conditions unacceptable to the Owner, or that lack the information and clarity required by these specifications may be subject to rejection at the sole discretion of the Owner.

A single contract will be awarded for all work included in this specification.

3.4.3 Time and Material Accounting

Contractor shall be required to maintain accurate job logs describing work performed by each crew throughout each day and daily time sheets detailing all work performed and expenses incurred in the same format as the bid detail submittal. Daily time sheets shall identify all individuals by name, craft and all hours worked on each portion of the work. Such job logs and time sheets shall accurately account for all man-hours with clear separation and identification of time, equipment and material as required accounting for the actual service hours and expenses. A sample timesheet shall be included in the bid to be approved by the owner's designated representative.

The timesheets/logs shall clearly detail the specific work that was accomplished during the shift. These sheets shall be presented to the Owner's representative on a daily basis for review with the Contractor's superintendent. Any presentation of timesheets/logs

deferred more than 48 hrs. before being presented to the Owner's representative shall be null and void. The Owners representative will sign and date these documents as a record of receipt and review. Any corrections that need to be made to such signed documents shall be implemented upon the discovery of the error and both parties shall initial the change made on the form. These records will then serve as record of the work performed and a basis for determining the final billing.

3.5 **SUBMITTALS**

Contractor shall submit the following documentation for review with the bid:

- References for at least three (3) projects of a similar scope and for a similar size unit, including a description, name, and phone contact.
- Subcontractor's names and reference lists.
- Copy of Contractor's R stamp.
- Superintendent's experience summary.
- Pricing
- Daily T&M Accounting Sheets
- Safety Documentation

3.6 CHANGE ORDERS

If any extra and/or additional work is to be done or any change in the plans and specifications is deemed necessary, the Purchaser may issue the Contractor a written change order directing that such extra work be done or that such change be made, and the Contract shall be modified accordingly. No claim for extra costs shall be allowed in the absence of a written change order. The Contractor shall give prompt written notice of any matter which they believe to involve extra cost. In the absence of such notice by the Contractor on account thereof his right to such claim shall be deemed to have been waived. Compensation to the Contractor will be calculated as an addition to or deduction from the Contract Price, based upon such written terms as may be established between the parties, either (a) by an acceptable lump sum proposal of the Contractor, or (b) on a cost-plus limited basis not to exceed a specified limit, or (c) on a basis of the unit prices as stated in these specifications where such unit prices apply. In the event that none of the foregoing methods are agreed upon with the Contractor, the Purchaser may perform the work. The Purchaser shall be the sole judge of such action and procedure. Determination of cost-plus work shall be based upon actual cost of labor and material plus a maximum of 10% of actual Contractor cost for overhead and profit.

The Contractor shall submit a formal process for addressing work that may arise but is not described herein. All change orders shall be addressed with a detailed scope of work and approved before proceeding with scope of extra work.

Contractor shall be required to maintain accurate job logs describing work performed by each crew throughout each day and daily time sheets detailing all work performed and expenses incurred in the same format as the bid detail submittal. Daily time sheets shall identify all individuals by name, craft and all hours worked on each portion of the work. Such job logs and time sheets shall accurately account for all man-hours with clear separation and identification of Time, equipment and Material as required accounting for the actual service hours and expenses. A sample timesheet shall be included in the bid to be approved by the owner's designated representative.

3.7 EXCEPTIONS

The purpose of this specification is to give detail on conditions under which the new equipment will operate, scope of Contract, quality of equipment required, standards used in determining its

acceptability and similar data. Each bidder shall carefully read all requirements herein set forth and shall offer equipment and services which fully comply with these requirements or shall plainly set forth all points, features, conditions, specifications, etc., wherein the equipment offered does not meet these specifications. Such exceptions as are made shall be listed by section and subsection number and shall be marked in ink in the sections of these specifications. Exceptions shall be explained in detail in a letter accompanying the bid. References shall not be made to the bidder's Proposal foe exceptions and supplementary terms. Failure to outline such exceptions will require the successful bidder to comply with these specifications.

The Platte Generating Station is <u>NOT</u> tax exempt and is subject to 7.5% sales tax. See the Nebraska Department of Revenue web site at <u>www.revenue.state.ne.us</u> for contractor's tax information.

3.8 EVALUATION

All proposals submitted will be evaluated by the Owner based on price, schedule, quality, economy of operation, experience of contractor, and adherence to specification. The owner reserves the right to reject any or all bids or waive informalities and to accept whichever bid that may be in the best interest of owner, at its sole discretion. The owner reserves the right to accept portions of the bid while disregarding portions that the purchaser deems unnecessary. The purchaser reserves the right to request revisions to the estimated time and material repairs to budget for possible repairs that are unknown. All revisions to the bid will be calculated using the provided rate sheets. Bids must be received by 2:00 P.M. Tuesday, August 29, 2023.

Bidder is solely responsible for obtaining any clarifications to this specification as may be required for the Bidder to submit an accurate and complete bid proposal.

4.0 QUALIFICATIONS

The Contractor shall be a firm specializing in the installation, overhaul, repair, and maintenance of steam generating equipment used in the power generation industry. The Contractor shall be capable of fully performing the work without the assistance of City personnel, except as required for the City to identify specific repair locations. A reference list of projects of similar scope and complexity shall be provided with the bid. The Contractor shall possess a valid ASME "R" stamp and valid welding procedures as typical for utility boilers and as specifically required for welds required in these specifications. All welders shall be certified as required for the work performed and the certification documents shall be available to review at the job site. Prior to award, the Contractor shall submit procedures for all welding required in this specification to the City for review.

4.1 SUPERINTENDENT

The Contractor shall provide well qualified Job Superintendent who will fully direct all field operations for the duration of the project, serve as liaison to the Owner's designated representatives, be fully authorized to make any and all decisions affecting the work in the field and coordinate activities between the Contractor and its subcontractors, if any. The Superintendent shall be thoroughly familiar with Combustion Engineering tangential boilers and auxiliary equipment and have had previous experience with projects of similar scope. A summary of the experience of the Superintendent proposed for this project shall be **provided with the bid**.

5.0 SAFETY

The Contractor shall be responsible for compliance with all safety practices as required by the regulatory agencies governing the Contractor's operations as well as any safety requirements of the Contractor's

organization and shall submit historical evidence of such compliance. All personnel working on site will be required to participate in the plant's safety orientation prior to performing any work on site at PGS.

The plant has an equipment lockout/tag out procedure to prevent the unauthorized starting of motors and the unauthorized movement of valves and dampers. The Contractor is required to use the procedure and add its own locks/tags on top of the plant lock/tags if required. Removal of plant locks/tags is not allowed and is cause for removal from the plant site.

6.0 INSURANCE

The contractor shall comply with the attached City's insurance requirements

7.0 PERFORMANCE AND PAYMENT BOND

The successful Bidder shall file with the OWNER Performance and Payment Bonds in the full amount (100 percent) of the Contract price, as security for the faithful performance of the Contract and the payment of all persons supplying labor and materials for the Work under this Contract, and to cover all guarantees against defective workmanship or materials, or both, for a period of 1 year after the date of final acceptance of the Work by the OWNER. The Surety furnishing these bonds shall have a record of service satisfactory to the OWNER, be authorized to do business in the State where the OWNER's project is located and shall be named on the current list of approved Surety Companies, acceptable on Federal bonds as published by the Audit Staff, Bureau of Accounts, U.S. Treasury Department.

The Attorney-in-Fact (Resident Agent) who executes these bonds on behalf of the Surety must attach a notarized copy of his power-of-attorney as evidence of his authority to bind the Surety on the date of execution of the bond.

8.0 DRAWINGS AND SITE INFORMATION

A selection of drawings has been provided with the bid package for reference only. Additional drawings are available for review at Platte Generating Station office. The Contractor is responsible for making such prebid site visits as required to obtain additional details for bidding and execution of the work and for clarification of any questions or concerns the bidder may have related to the work scope and site conditions.

ATTACHMENTS:

D-183702	Boiler Right Side Elevation
13477-4C-1292	Boiler Tube Material Diagram
13477-4C-1291	Boiler Tube Material Diagram
13477-4C-1290	Boiler Tube Material Diagram

MINIMUM INSURANCE REQUIREMENTS CITY OF GRAND ISLAND, NEBRASKA

The successful bidder shall obtain insurance from companies authorized to do business in Nebraska of such types and in such amounts as may be necessary to protect the Bidder and the interests of the City against hazards or risks of loss as hereinafter specified. This insurance shall cover all aspects of the Bidder's operations and completed operations. Failure to maintain adequate coverage shall not relieve Bidder of any contractual responsibility or obligation. Minimum insurance coverage shall be the amounts stated herein or the amounts required by applicable law, whichever are greater.

1. WORKERS COMPENSATION AND EMPLOYER'S LIABILITY

This insurance shall protect the Bidder against all claims under applicable State workers compensation laws. This insurance shall provide coverage in every state in which work for this project might be conducted. The liability limits shall not be less than the following:

Workers Compensation Employers Liability Statutory Limits \$100,000 each accident \$100,000 each employee \$500,000 policy limit

2. BUSINESS AUTOMOBILE LIABILITY

This insurance shall be written in comprehensive form and shall protect the Bidder, Bidder's employees, or subcontractors from claims due to the ownership, maintenance, or use of a motor vehicle. The liability limits shall not be less than the following:

Bodily Injury & Property Damage

\$ 500,000 Combined Single Limit

3. COMPREHENSIVE GENERAL LIABILITY

The comprehensive general liability coverage shall contain no exclusion relative to explosion, collapse, or underground property. The liability limits shall not be less than the following:

Bodily Injury & Property Damage

\$ 500,000 each occurrence \$1,000,000 aggregate

4. UMBRELLA LIABILITY INSURANCE

This insurance shall protect the Bidder against claims in excess of the limits provided under employer's liability, comprehensive automobile liability, and commercial general liability policies. The umbrella policy shall follow the form of the primary insurance, including the application of the primary limits. The liability limits shall not be less than the following:

Bodily Injury & Property Damage

\$1,000,000 each occurrence \$1,000,000 general aggregate

5. ADDITIONAL REQUIREMENTS

The City may require insurance covering a Bidder or subcontractor more or less than the standard requirements set forth herein depending upon the character and extent of the work to be performed by such Bidder or subcontractor.

Insurance as herein required shall be maintained in force until the City releases the Bidder of all obligations under the Contract.

The Bidder shall provide and carry any additional insurance as may be required by special provisions of these specifications.

6. CERTIFICATE OF INSURANCE

Satisfactory certificates of insurance shall be filed with the City prior to starting any work on this Contract. The certificates shall show the City as an additional insured on all coverage except Workers Compensation. The certificate shall state that thirty (30) days written notice shall be given to the City before any policy is cancelled (strike the "endeavor to" wording often shown on certificate forms). If the Bidder cannot have the "endeavor to" language stricken, the Bidder may elect to provide a new certificate of insurance every thirty (30) days during the contract. Bidder shall immediately notify the City if there is any reduction of coverage because of revised limits or claims paid which affect the aggregate of any policy.







