

REQUEST FOR PROPOSALS



TANK MAINTENANCE SERVICES Elevated Water Tanks Maintenance

For Pender County Utilities - Burgaw, NC

RFP # 221011-233

Date of Issue: October 24, 2022

Tank Inspections: November 1-10, 2022

Questions Due: November 15, 2022 at 12pm

Proposals Due: December 7, 2022 by 3pm

Estimated Contract Award: January 2023

Issued for:



PENDER COUNTY UTILITIES

Kenneth Keel, PE, Director

605 E. Fremont Street

P.O. Box 995

Burgaw, NC 28425

Phone - 910.259.0212

Fax - 910.259.1579

Email – kkeel@pendercountync.gov

Issued By:

Trisha Newton, Purchasing Manager

Pender County Finance ♦ 805 S. Walker St. #1578 ♦ Burgaw, NC 28425

Phone: 910.259.1281 ♦ Email: purchasing@pendercountync.gov

1.0 PURPOSE

It is the express intent of Pender County Utilities to acquire a fully qualified firm to implement an Asset Management Program which includes: engineering, professional management, GASB 34 compliance as alternate method of asset management, inspection, rehabilitation, repair, bio-film washouts, visual inspections and repainting of six (6) water tanks in the system. The selected firm will have the ability to provide water quality services to include bio-film removal, active mixing, antenna installation evaluations & recommendations, and other smart water solutions.

2.0 SCOPE OF WORK - OVERVIEW

The contractor shall perform all required work and shall provide and furnish all labor, supervision, materials, necessary tools, expendable equipment, utility and transportation services and all else required to complete this work in accordance with the General Terms and Conditions, Special Conditions, and project specifications; including any and all Addenda.

The proposal shall address all of the information outlined herein. Additionally, each prospective firm may include such other information as he or she deems pertinent to the proper evaluation of their proposal. Each firm is responsible for testing the current materials in place on the tanks for hazardous content. All work must comply with OSHA Confined Space Entry, NC Department of Environmental and Natural Resources, AWWA, and NSF Regulations. Proposals will be considered and should be written to provide the contracted maintenance of the following tanks:

	Tank Name	Capacity
Tank #1	Maple Hill Elevated WST	150,000 Gallons
Tank #2	Rocky Point Elevated WST	300,000 Gallons
Tank #3	Hampstead Elevated WST	500,000 Gallons
Tank #4	Highway 210 Ground Concrete WST	200,000 Gallons
Tank #5	Topsail Elevated WST	500,000 Gallons
Tank #6	Malpass Corner Elevated WST	500,000 Gallons

It is the responsibility of each prospective firm to inspect the tanks prior to the submission of their proposal. Appointments to inspect tanks will be available November 1st through 10th. Contact James Proctor at 910-259-1521 or jproctor@pendercountync.gov to schedule your inspections.

SEE ADDITIONAL SCOPE OF WORK ON PAGE 8

3.0 PROPOSAL SPECIFICATIONS

The details of this proposal shall include information on all of the following items. Additionally, each prospective firm may submit such other information as deemed appropriate for the proper evaluation of his or her proposal. The proposal shall include:

3.1 Firms must provide documentation of staff **NC engineers and NACE documents** of certification. A copy of the State Contractor's License **MUST BE** included in the response to this RFP.

3.2 The details of appropriate work and renovation plan for the tanks. This shall include but not be limited to, the evaluation of the tanks with particular regard to the internal and external structural condition of the tanks and any of its appurtenances, need for painting and condition of the foundation. Methods for handling and disposing of hazardous wastes should be explained.

3.3 A list of systems that are currently being maintained by the proposer should be submitted. Include the Name of the System, Person of Contact, Telephone Number of Contact, and Number of Tanks in the System under contract. A list of systems within the state of North Carolina must be submitted to be considered.

3.4 Specifications on the frequency and degree of inspection and cleanout services the Owner could expect under the terms of the maintenance contract. The tanks shall be inspected annually with a complete report provided to Pender County Utilities. A minimum of two (2) bio-film washout inspections with detailed engineering report shall be conducted in any ten (10) year period. Additionally, each perspective firm should address the requirements to assume responsibility for all corrections and repairs to the tanks necessitated by acts of vandalism or through normal deterioration.

3.5 Adherence to the specifications given in this Request for Proposal. **All surface preparation and coatings specified should be strictly adhered to. Any variances or recommendations can be discussed prior to proposal submittal.** These specifications are identified in this Request for Proposal as tanks renovation specifications. In addition, all rules and regulations of the NC Department of Environmental and Natural Resources will be strictly adhered to. Additionally, a method for determining the scheduling for future repainting should be addressed for the tanks. All permits, approvals, etc., required by the NC Department of Environmental and Natural Resources will be the responsibility of the successful firm.

3.6 Annual Fee per tank. Proposals must structure pricing with an annual fee per tank. Pender County Utilities shall be billed once annually with the first payment due within 30 days of the fully executed contract. Pender County Utilities prefers proposals with annual per tank pricing; however, contractors may provide additional proposals with alternative pricing options if desired.

3.7 No provisions for short term contracts. Pender County Utilities will award a 10 year contract with an option of a 5 year renewal. No short-term contracts (3-year or 5-year) will be considered. This contract shall be upheld by the Contractor for the full term specified, except in the case of non-payment by Pender County Utilities. Pender County Utilities reserves the right to terminate this contract for performance issues with 90 days written notice provided. The contract must include a detailed fee schedule for the life of the contract. All future work shall be covered by the annual fee with no extra charges for future work.

3.8 Provision to add additional tanks. In the event Pender County Utilities constructs additional tanks, Pender County Utilities reserves the right to add these to this contract once maintenance is needed, determined solely at the discretion of the County. The contractor must honor the existing per tank contract pricing for additional tanks added.

3.9 Demonstrated capability to successfully manage the information flow during the course of maintaining and managing Pender County Utilities' water storage tanks. Pender County Utilities must have an easily accessible way to view this information.

Starting on page 8 is the schedule that outlines the initial work schedule. ***There will be no deviation from this schedule of work. All work will be completed in calendar year as listed. The tanks in Hampstead and Topsail must be completed January – March 2023 or November- December 2023 due to high water usage during other months.***

4.0 GENERAL TERMS AND CONDITIONS

4.1 Opening Date and Time

Sealed proposals for performing the work will be received by the purchasing at the time and place listed on the first page of this invitation. No telephonic or fax proposals will be accepted. Bids and amendments thereto, or withdrawal of bids submitted, if received by the County after the date and time specified for scheduled receipt, will not be considered. It will be the responsibility of the bidder to see that his bid is in this office by the specified time and date. There will be no exceptions. Date of postmark will not be accepted. The County will not be liable for bid packages lost or misdirected by the carrier.

4.2 Inconsistencies in Conditions

In the event there are inconsistencies between the General Terms and Conditions, and the Special Conditions and Specifications, the latter two shall take precedence.

4.3 Clarifications of Terms

If any prospective bidder has questions about the specifications or other solicitation documents, the prospective bidder should contact the purchasing agent. Any revisions to the solicitation will be made only by addendum issued by the County.

4.4 Default

In the event of default by the contractor, the County reserves the right to procure the services from other sources and hold the Contractor liable for any excess cost occasioned thereby. The County also reserves the right to void this contract at any time due to negligence or failure to perform of the contractor.

4.5 Ethics in Public Contracting

By submitting a bid, each bidder certifies that its bid is made without collusion or fraud and that it has not offered or received any kickbacks or inducements from any public employee having official responsibility for this procurement transaction, any payment, loan subscription, advance, deposit or money, services, present or promised unless consideration of substantially equal or greater value was exchanged.

4.6 Anti-Discrimination

By submitting a bid, each bidder certifies to the County that it will conform to the provisions of the Federal Civil Rights Act of 1964, as amended.

4.7 Employment Discrimination Prohibited

During the performance of this agreement, the Service Provider agrees it will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the Service Provider, and further agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause and further agrees to include in all solicitations or advertisements for employees by or on behalf of the Service Provider to state that the Service Provider is an equal opportunity employer.

During the performance of this agreement, the Service Provider agrees not to discriminate against any faith-based organization on the basis of the organization's religious character or impose conditions that either restrict the religious character of the faith-based organization or impair, diminish, or discourage the exercise of religious freedom in procuring goods or services on in making disbursements.

4.8 Immigration Reform and Control Act of 1996 and E-Verify

By signing this bid or proposal, the bidder certifies that it does not and will not during the performance of this contract; violate the provisions of the Federal Immigration Reform and Control Act of 1986, which prohibits employment of illegal aliens. Additionally, the bidder certifies current and continued consistent compliance with the E-Verify procedures administered by the U.S. Citizenship and Immigration Services Verification Division for all employees assigned to Pender County projects.

4.9 Indemnity

The following shall be deemed included as a condition of any contract awarded as a consequence of this bid; Contractor and all subcontractors shall bear all loss, expense (including reasonable attorney's fees) and damage in connection with, and shall indemnify Owner against and save Owner harmless from all claims, demands, and judgments made or recovered against Owner because of bodily injuries, including death at any time resulting therefrom, and/or because of damage to property, from any cause whatsoever, arising out of, incidental to, or in connection with the work, whether or not due to any act or omission of commission, including negligence but excluding sole negligence, of the Owner, his employees, servants, or agents. Compliance by the Contractor with the insurance provisions hereof shall not relieve Contractor from liability under this provision.

4.10 Insurance Requirements

Insurance coverage specified herein constitutes the minimum requirements and said requirements shall in no way lessen or limit the liability of the Firm under the terms of the Contract. The Firm shall procure and maintain at their own expense any additional kinds and amounts of insurance that, in their own judgment, may be necessary for their proper protection in the prosecution of the work. The Firm shall carry insurance as prescribed herein and all policies shall be with companies satisfactory to Pender County Utilities.

If a part of this Contract is sublet, the Firm shall require each sub-firm to carry insurance of the same kinds and in like amounts as carried by the prime Firm.

The Contractor shall provide insurance coverage as follows:

- a. Workman's Compensation as required by North Carolina Statutes for benefit of contractor's employees.
- b. Commercial General Liability Insurance with a \$1,000,000 per occurrence bodily injury or property damage. Certificates of insurance will be required when the contract is awarded.
- c. Motor Vehicle Insurance with a \$500,000 for personal injury and \$100,000 for property damage.
- d. Pollution Liability which shall cover Pollution Liability in amounts of at least \$10,000,000.
- e. Contractor's Professional Liability which shall cover Contractors Professional Liability in amounts of at least \$2,000,000.
- f. Umbrella Liability: Umbrella or Excess Liability police in amounts of at least \$5,000,000 shall be provided.

Certificates of insurance shall state that thirty (30) days written notice will be given to the County before the policy is canceled or non-renewed. No Firm or sub-firm will be allowed to start any work on this contract until certificates of all insurance required herein are filed and approved by County Officials. The certificates shall show the type, amount, class of operations covered, effective dates, and the dates of expiration of policies. In addition, the certificates shall name Pender County Utilities as additional insured. The Firm shall secure and maintain in effect for the period of the Contract and pay all premiums for the above listed required insurance policies.

4.11 Drug Free Workplace

During the performance of this agreement, the Service Provider agrees to (i) provide a drug-free workplace for the Service Provider's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Service Provider's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the Service Provider that it maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

5.0 SPECIAL CONDITIONS

5.1 Any permits, approvals, etc. required by the **State of North Carolina** to accomplish all current and future work shall be the responsibility of the successful proposer.

5.2 Each bidder shall submit a formal **Safety Program** stating company policy on all safety procedures. Document procedures to include workers protection, confined space, and general safety procedures.

5.3 Compliance with Regulations

The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules or regulations, and without such notice to the County, he shall bear all costs arising therefrom.

5.4 Protection of Work, Property and Persons

The Contractor shall adequately protect the work, adjacent property, and the public and shall be responsible for any damage or injury caused by him or his authorized agent's act or neglect.

5.5 Inspection of Work

The Contractor shall permit and facilitate inspection of the work by authorized representatives of the County at all times.

5.6 Quality Control

Hold-Point Inspections: A NACE Level 3 Certified Coating Inspector from the paint manufacturer shall visit the job site to climb the tanks and to support the Contractor's personnel or the Owner as needed and/or requested. Visits shall be made on a weekly basis as a minimum or as needed to review hold points for the Owner. Additional visit shall be made as needed and/or requested by Owner or Contractor. 48 hours' notice is required by the Contractor for each hold point inspection.

Pre-Paint Meeting: All parties, to include the owner or owners' representative, maintenance contractor's representative, the subcontractor's lead man and the manufacturers NACE Certified Representative shall meet prior to any work is started to review the spec and discuss job specific expectations, needs and requirements.

Contractor should be committed to quality performance and have a documented quality program. An ISO 9001:2015 certification is preferred.

**PENDER COUNTY UTILITIES
SCOPE OF WORK TO BE ACCOMPLISHED UNDER
THE "FULL SERVICE MAINTENANCE PROGRAM"**

Visual Inspection Service-(Per Schedule of Work on page 18/19)

1. Engineering inspection and preventive maintenance.
2. Any needed repairs/touchup.
3. Provide emergency repair service.
4. Ensure tanks complies with all federal and state regulations.
5. Maintain as per the maintenance program.

Chemical Clean Washout Inspection Service-(Per Schedule of Work on page 18/19)

1. NSF Approved Chemical Bio Film Removal
2. Bio-film Washout, disinfect and inspect the tanks.
3. Any needed repairs/touchup.
4. Provide emergency repair service.
5. Ensure Tanks complies with all federal and state regulations.
6. Maintain as per the maintenance program

Exterior Renovations (Per Schedule of Work on page 18/19)

1. Exterior overcoat specification listed below applies to all tanks in the Pender County Utilities' system. If there is a second paint cycle in the Schedule of Work on page 18/19, refer to the second paint cycle coating system listed in the specifications below.
2. Repairs as needed per Engineering Report and by the Pender County Utilities.

Interior Renovations (Per Schedule of Work on page 18/19)

1. Interior specification listed below applies to all interior renovation cycles and all six (6) tanks in the Pender County Utilities' system. No exceptions.
2. Repairs as needed per Engineering Report and by the Pender County Utilities.

PENDER COUNTY UTILITIES

WATER TANK MAINTENANCE

REPAINTING & COATING SPECIFICATION

PART 1 - GENERAL

1.01 SCOPE

- A. The work of this section includes the surface preparation and painting of all surfaces related to the water storage tanks maintenance RFP for the Pender County Utilities.
- B. The work of this section is for the Pender County Utilities, located at 605 E. Fremont St., Burgaw, NC 28425.

1.02 REFERENCE SPECIFICATIONS AND STANDARDS

- A. Without limiting the general aspects of other requirements of these specifications, all surface preparation, coating and painting of surfaces shall conform to the applicable requirements of the Steel Structures Painting Council and the manufacturer's printed instructions.
- B. The Owner's decision shall be final as the interpretation and/or conflict between any of the referenced specifications and standards contained herein.

1.03 QUALITY ASSURANCE

- A. General: Quality assurance procedures and practices shall be utilized to monitor all phases of surface preparation, application, and inspection throughout the duration of the project. Procedures or practices not specifically defined herein may be utilized provided they meet recognized and accepted professional standards and are approved by the Owner.
- B. Surface Preparation: Surface preparation will be based upon comparison with: "Pictorial Surface Preparation Standards for Painting Steel Surfaces", SSPC-Vis-1 and ASTM Designation D2200; "Standard Methods of Evaluating Degree of Rusting on Painted Steel Surfaces" SSPC-Vis-2 and ASTM Designation D610; "Visual Standard for Surfaces of New Steel Air blast Cleaned with Sand Abrasive" or "Guideline for Selecting and Specifying Concrete Surface Preparation for Sealers, Coating and and Polymer Overlays" and ICRI CSP Surface Profile Chips.
- C. Application: No coating or paint shall be applied: When the surrounding air temperature or the temperature of the surface to be coated is below the minimum required temperature for the specified product; to wet or damp surfaces or in fog or mist; when the temperature is less than 5 degrees F. above the dewpoint; when the air temperature is expected to drop below 40 degrees F. within six hours after application of coating. Dewpoint shall be measured by use of an instrument such as a Sling Psychrometer in conjunction with U.S. Department of Commerce Weather Bureau Psychrometric Tables. If above conditions are prevalent, coating or painting shall be delayed or postponed until conditions are favorable. The day's coating or painting shall be completed in time to permit the film sufficient drying time prior to damage by atmospheric conditions.
- D. Thickness and Holiday Checking: Thickness of coatings and paint shall be checked with a non-destructive, magnetic type thickness gauge. The integrity of coated interior surfaces shall be tested with an approved

inspection device. Non-destructive holiday detectors shall not exceed the voltage recommended by the manufacturer of the coating system. For thicknesses between 10 and 20 mils (250 microns and 500 microns), a non-sudsing type wetting agent, such as Kodak Photo-Flo, may be added to the water prior to wetting the detector sponge. All pinholes shall be marked, repaired in accordance with the manufacturer's printed recommendations, and retested. No pinholes or other irregularities will be permitted in the final coating.

- E. Inspection Devices: The Contractor shall furnish, until final acceptance of coating and painting, inspection devices in good working condition for detection of holidays and measurement of dry-film thickness of coating and paint. The contractor shall also furnish U.S. Department of Commerce; National Bureau of Standard certified thickness calibration plates to test accuracy of dry film thickness gauges and certified instrumentation to test accuracy of holiday detectors.
- F. All necessary testing equipment shall be made available for the Owner's use at all times until final acceptance of application. Holiday detection devices shall be operated in the presence of the Owner.

1.04 SAFETY AND HEALTH REQUIREMENTS

- A. General: In accordance with requirements set forth by regulatory agencies applicable to the construction industry and manufacturer's printed instructions and appropriate technical bulletins and manuals, the Contractor shall provide and require use of personnel protective lifesaving equipment for persons working on or about the project site.
- B. Head and Face Protection and Respiratory Devices: Equipment shall include protective helmets, which shall be worn by all persons while in the vicinity of the work. In addition, workers engaged in or near the work during sandblasting shall wear eye and face protection devices and air purifying half mask or mouthpiece respirators with appropriate filters. Barrier creams shall be used on any exposed areas of skin.
- C. Ventilation: Where ventilation is used to control hazardous exposure, all equipment shall be explosion-proof. Ventilation shall reduce the concentration of air contaminant to the degree a hazard does not exist. Air circulation and exhausting of solvent vapors shall be continued until coatings have fully cured.
- D. Sound Levels: Whenever the occupational noise exposure exceeds maximum allowable sound levels, the Contractor shall provide and require the use of approved ear protective devices.
- E. Illumination: Adequate illumination shall be provided while work is in progress, including explosion-proof lights and electrical equipment. Whenever required by the Owner, the Contractor shall provide additional illumination and necessary supports to cover all areas to be inspected. The Owner shall determine the level of illumination for inspection purposes.
- F. Confined Space: When applicable it is mandatory that all work be performed in compliance with OSHA'S rules and regulations for working in confined space. Atmospheres within confined spaces as defined by the Occupational Safety and Health Administration are classified as being either a Class A, Class B or Class C environment.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Materials specified are those that have been evaluated for the specific service. Products of the Tnemec Co. are listed to establish a standard of quality. Equivalent materials of other manufacturers may be substituted on written approval of the owner.

Tnemec Company, Incorporated 101 Rice Bent Way Suite 5 Columbia, SC 29229
(803) 736-1553. Contact is Mr. Michael Anderson (803) 429-1045 or mikeanderson@tsecoatings.com.

Requests for substitution shall include manufacturer's literature for each product giving the name' product number, generic type, descriptive information, solids by volume, recommended dry film thickness and certified test reports showing results to equal the performance criteria of the products specified herein. No request for substitution shall be considered that will decrease film thickness or offer a change in the generic type of coatings specified. In addition, a list of five similar projects shall be submitted in which each product has been used and rendered satisfactory service.

Requests for product substitution shall be made at least twenty-five (25) days prior to bid date.

Any material savings shall be passed to the owner in the form of a contract dollar reduction.

Manufacturer's color charts shall be submitted to the owner at least 30 days prior to paint application. General contractor and painting contractor shall coordinate work so as to allow sufficient time (five to ten days) for paint to be delivered to the jobsite.

- B. All materials shall be brought to the jobsite in original, sealed containers. They shall not be used until the Owner has inspected contents and obtained data from information on containers or labels. Materials exceeding storage life recommended by the manufacturer shall be rejected.
- C. All coatings and paints shall be stored in enclosed structures to protect them from weather and excessive heat or cold. Flammable coatings or paint must be stored to conform to County, County, State and Federal safety codes for flammable coating or paint materials. At all times, coating and paints shall be protected from freezing.
- D. A NACE certified technical representative from the paint manufacturer shall visit the job site to support the Contractor's personnel, the Owner and/or the Owner as needed and/or requested. Visits shall be made at 50% and 100% completion and as needed to review hold points for the Owner. 48 hours' notice is required by the Contractor for each hold point inspection.
- E. Coating Systems

INTERIOR STEEL WATER TANK COATING SYSTEM (ALL INTERIOR RENOVATION CYCLES)

Surface Preparation: SSPC-SP10/NACE 2 Near White Metal Blast Cleaning. After surface preparation and prior to painting or after priming, all unwelded seams will be filled with Tnemec Series 215 Surfacing Epoxy. The surface shall be clean and dry before painting.

1st Coat: Tnemec Series N140 Pota-Pox Plus applied at 4.0 – 6.0 dry mils
Approved Thinner: #4 Thinner

Stripe Coat: Tnemec Series N140 Pota-Pox Plus applied at 4.0 – 6.0 dry mils
Approved Thinner: #4 Thinner

2nd Coat: Tnemec Series N140 Pota-Pox Plus applied at 4.0 – 6.0 dry mils
Approved Thinner: #4 Thinner

**EXTERIOR CONCRETE WATER TANK COATING SYSTEM
(ALL EXTERIOR RENOVATION CYCLES)**

Surface Preparation: SSPC SP13/NACE 6 Surface Preparation of Concrete The surface shall be clean and dry before painting.

One Coat: Tnemec Series 156 Enviro-Crete applied at 6.0 – 8.0 dry mils

**EXTERIOR STEEL TANK COATING SYSTEM
(FIRST CYCLE, OVERCOAT SYSTEM)**

Surface Preparation: Power wash the surface with 4,000 PSI using a rotating turbo nozzle to remove all loose paint, loose rust, dirt, dust, mildew and all other foreign matter. Follow cleaning with SSPC-SP3 Power Tool Cleaning using a vacuum attachment to all rusted and abraded areas. All surfaces where the exterior finish coat is cracked shall also be cleaned with the same SSPC-SP3 Power Tool using vacuum attachments to remove all poorly adhered finish coat. Feathering smooth the edges of all tightly adhered existing paint so they do not lift when painted over. The surface shall be clean and dry before painting.

Spot Prime: Tnemec Series 135 Chembuild applied at 3.0 – 5.0 dry mils all rusted, abraded and bare metal areas.
Approved Thinners: #18 or #62 Thinner

1st Coat: Tnemec Series 135 Chembuild applied at 4.0 – 6.0 dry mils
Approved Thinners: #18 or #62 Thinner

2nd Coat: Tnemec Series 72 Endura-Shield applied at 2.0 – 3.0 dry mils.
Approved Thinner: #49 Thinner.

Lettering / Logo: Two coats Tnemec Series 72 shall be used for the lettering/ logo applied at a dry film thickness of 2.0 – 3.0 per coat. Lettering / Logo to be decided by Pender County Utilities and may or may not be same as existing.

Calking: Fill all gaps between the concrete foundation and the bottom plates of the steel tank with Series 265. Overlap 1/8 inch on both sides of the gap.

Concrete Foundation: The concrete foundation shall be cleaned and shall receive one coat of Series N69 Hi-Build Epoxoline II at 4.0 – 6.0 dry mils.

**EXTERIOR STEEL TANK COATING SYSTEM
(SECOND CYCLE, OVERCOAT SYSTEM)**

Surface Preparation: Pressure wash using 3,500 psi and a rotating tip to remove all loose dirt, dust, mildew, loose coating and other foreign matter. SSPC-SP 3 Power Tool Cleaning to all bare metal areas. Feather smooth the edges of all tightly adhered material. The surface shall be clean and dry before painting.

Spot Prime: Tnemec Series 135 Chembuild applied at 3.0 – 5.0 dry mils all rusted, abraded and bare metal areas.
Approved Thinners: #18 or #62 Thinner

Full Coat: Tnemec Series 72 Endura-Shield applied at 2.0 – 3.0 dry mils.
Approved Thinner: #49 Thinner.

Lettering / Logo: Two coats Tnemec Series 72 shall be used for the lettering/ logo applied at a dry film thickness of 2.0 – 3.0 per coat. Lettering / Logo to be decided by Pender County Utilities and may or may not be same as existing.

Calking: Fill all gaps between the concrete foundation and the bottom plates of the steel tank with Series 265. Overlap 1/8 inch on both sides of the gap.

Concrete Foundation: The concrete foundation shall be cleaned and shall receive one coat of Series N69 Hi-Build Epoxoline II at 4.0 – 6.0 dry mils.

PART 3 – EXECUTION

3.01 GENERAL

- A. All surface preparation, coating and painting shall conform to applicable standards of the Steel Structures Painting Council, and the manufacturer's printed instructions. Material applied prior to approval of the surface by the Owner shall be removed and reapplied to the satisfaction of the Owner at the expense of the Contractor.
- B. All work shall be performed by skilled craftsmen qualified to perform the required work in a manner comparable with the best standards of practice. Continuity of personnel shall be maintained, and transfers of key personnel shall be coordinated with the Owner.
- C. The Contractor shall provide an English speaking supervisor at the work site during cleaning and application operations. The supervisor shall have the authority of sign change orders, coordinate work, and make decisions pertaining to the fulfillment of the contract.
- D. Dust, dirt, oil, grease or any foreign matter that will affect the adhesion or durability of the finish must be removed by washing with clean rags dipped in an approved cleaning solvent and wiped dry with clean rags.
- E. The Contractor's coating and painting equipment shall be designed for application of materials specified and shall be maintained in first class working condition. Compressors shall have suitable traps and filters to remove water and oils from the air. Contractor's equipment shall be subject to approval of the Owner.
- F. Application of the first coat shall follow immediately after surface preparation and cleaning and before rust bloom or flash rusting occurs. Any cleaned areas not receiving first coat within this period shall be recleaned prior to application of first coat.

3.02 SURFACE PREPARATION

- A. The latest revision of the following surface preparation specifications of the Steel Structures Painting Council shall form a part of this specification:
 - 1. Solvent Cleaning (SSPC-SP1): Removal of oil, grease, soil and other contaminants by use of solvents, emulsions, cleaning compounds, steam cleaning or similar materials and methods which involve a solvent or cleaning action.
 - 2. Hand Tool Cleaning (SSPC-SP2): Removal of loose rust, loose mill scale and other detrimental foreign matter to degree specified by hand chipping, scraping, sanding and wire brushing.

3. Power Tool Cleaning (SSPC-SP3): Removal of loose rust, loose mill scale and other detrimental foreign matter to degree specified by power wire brushing, power impact tools or power sanders.
 4. Brush-Off Blast Cleaning (SSPC-SP7/NACE 4): Brush-off blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose coating. Tightly adherent mill scale, rust, and coating may remain on the surface. Mill scale, rust, and coating are considered tightly adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed.
 5. Commercial Blast Cleaning (SSPC-SP6/NACE 3): Blast cleaning until at least 66 percent of each element of surface area is free of all visible residues.
 6. Near White Blast Cleaning (SSPC-SP10/NACE 2): Blast cleaning to nearly white metal cleanliness, until at least 95 percent of each element of surface area is free of all visible residues.
 7. Surface Preparation of Concrete (SSPC-SP13/NACE 6): This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coating or lining systems.
 8. Power Tool Cleaning to Bare Metal (SSPC-SP11): This standard covers the requirements for power tool cleaning to produce a bare metal surface and to retain or produce a minimum 25 micrometer (1.0 mil) surface profile. This standard is suitable where a roughened, clean, bare metal surface is required, but where abrasive blasting is not feasible or permissible.
- B. Blast cleaning for all surfaces shall be by dry method unless otherwise directed.
- C. Particle size of abrasives used in blast cleaning shall be that which will produce a 1.5 – 2.0 mil (37.5 microns - 50.0- microns) surface profile or in accordance with recommendations of the manufacturer of the specified coating or paint system to be applied.
- D. Abrasive used in blast cleaning operations shall be new, washed, graded and free of contaminants that would interfere with adhesion of coating or paint and shall not be reused unless specifically approved by the Owner.
- E. During blast cleaning operations, caution shall be exercised to ensure that surrounding existing coatings or paint are not exposed to abrasion from blast cleaning.
- F. The Contractor shall keep the area of his work and the surrounding environment in a clean condition. He shall not permit blasting materials to accumulate as to constitute a nuisance or hazard to the accomplishment of the work, the operation of the existing facilities, or nuisance to the surrounding environment.
- G. Blast cleaned surfaces shall be cleaned prior to application of specified coatings or paint. No coatings or paint shall be applied over damp or moist surfaces.
- H. Specific Surface Preparation: Surface preparation for the specific system shall be as noted in Section 2.01 Paragraphs E.

3.03 APPLICATION, GENERAL

- A. Coating and paint application shall conform to the requirements of the Steel Structures Painting Council Paint Application Specification SSPC-PA1, latest revision, for "Shop, Field and Maintenance Painting," and the manufacturer of the coating and paint materials.
- B. Thinning shall be permitted only as recommended by the manufacturer approved by the Owner, and utilizing the thinners stated in Section 2.01 Paragraphs E.
- C. Each application of coating or paint shall be applied evenly, free of brush marks, sags, runs, with no evidence of poor workmanship. Care shall be exercised to avoid lapping on glass or hardware. Coatings and paints shall be sharply cut to lines. Finished surfaces shall be free from defects or blemishes.
- D. Protective coverings or drop cloths shall be used to protect floors, fixtures, and equipment. Care shall be exercised to prevent coatings or paint from being spattered onto surfaces that are not to be coated or painted. Surfaces from which materials cannot be removed satisfactorily shall be recoated or repainted as required to produce a finish satisfactory to the Owner.
- E. When two coats of coating or paint are specified, where possible, the first coat shall contain sufficient approved color additive to act as an indicator of coverage or the two coats must be of contrasting color.
- F. Film thickness per coat specified in Section 2.01 Paragraphs E are minimum required. If roller application is deemed necessary, the Contractor shall apply additional coats as to achieve the specified thickness.
- G. All material shall be applied as specified.
- F. All welds, edges and other irregular surfaces shall receive a brush coat of the specified product prior to application of the first complete coat.

3.04 COLOR SCHEME

- A. Colors Submittals will be made to the owner for approval prior to application. **The Pender County Utilities may choose new lettering/logo.**

3.05 CLEAN UP

- A. Upon completion of the work, all staging, scaffolding, and containers shall be removed from the site or destroyed in a manner approved by the Owner. Coating or paint spots and oil or stains upon adjacent surfaces shall be removed and the jobsite cleaned. All damage to surfaces resulting from the work of this section shall be cleaned, repaired, or refinished to the satisfaction of the Owner at no cost to the Owner.
- B. After the interior coating has properly cured, the interior surfaces shall be disinfected per A.W.W.A. Spray Method No. 2 (200 PPM).
- C. The tanks shall be sealed and made ready for service.

NOTICE:

1. **The tanks renovation specifications, repairs, and routine maintenance and inspections outlined above must be strictly adhered to. The Firm shall not be allowed to deviate from these specifications without approval from PCU.** This includes surface preparation, coating selection, coating application, tanks repairs, scheduled bio-film washout and engineering inspections, and preventive maintenance.
2. The renovation projects, routine maintenance, inspections, and evaluations outlined in the “Schedule of Work” must be completed in accordance with the specified timeframe. All maintenance program costs must be calculated with the completion deadline of these projects in mind.

6.0 Proposal Requirements, Evaluation of Proposals and Timeline of RFP Process/Contract Award

6.1 Proposals shall fully address section 3.0 Proposal Specifications beginning on page 2 herein, as well as comply with all sections of this RFP. Any requested exceptions or deviations must be identified in writing and submitted with the bidder’s proposal. A proposed sample contract must be submitted with the proposal.

6.2 It is the responsibility of each prospective firm to inspect the tanks prior to the submission of their proposal. Appointments to inspect tanks will be available November 1st through 10th. Contact James Proctor at 910-259-1521 or jproctor@pendercountync.gov to schedule your inspections.

6.3 Any questions on this RFP must be submitted in writing to purchasing@pendercountync.gov no later than November 15, 2022 at 12pm EST. Answers will be provided in the form of an Addendum as soon as possible thereafter, no later than November 18, 2022.

6.4 The is the responsibility of perspective bidders to monitor the Pender County website at <https://www.pendercountync.gov/public-notices/open-rfps-and-bids/> for Addenda prior to submitting a proposal.

6.5 Sealed Proposals are due no later than December 7, 2022 by 3pm EST. Proposals should be sent as follows:

By FedEx/UPS/courier
Pender County
Attn: Trisha Newton
805 S. Walker Street
Burgaw, NC 28425

By US Mail:
Pender County
Attn: Trisha Newton
PO Box 1578
Burgaw, NC 28425

Proposals lost in the mail or otherwise delivered late cannot be considered. Three bound and typewritten copies as well as one electronic copy of the RFP shall be submitted. The outside of the package must be labeled with RFP # 221011-233 and the submitting firm’s name. In addition to a sample contract, the affidavit on page 17 must be completed by an authorized party and included with the proposal.

6.6 Proposals should be prepared simply and economically and bound in a single volume whenever practical. All data, materials, and documentation shall be available in a clear, concise form. Pender County does not expect nor will any more favorable consideration be given to submittals with fancy covers or binding, color photos or non-pertinent information. Submissions are limited to 50 pages front and back, not including the proposed contract.

6.7 TIMELINE:

RFP # 221011-233 Issued	October 24, 2022
Schedule a tour of tanks 910-259-1521	November 1-10, 2022
Question Due	November 15, 2022 by 12noon EST
Proposals Due	December 7, 2022 by 3pm EST
Estimated Award of Contract	January 2023

6.8 The County will evaluate proposals based on based on price and demonstrated competency/experience related to scope of services, as well as references. The County will contract with the best overall firm that meets the needs of the County.

6.9 The County reserves the right to waive formalities in any proposal and to reject any or all proposals in whole or in part with or without cause and/or to accept the proposal that in its judgment will be in the best interest of Pender County Utilities.

6.10 The Terms and Conditions for Pender County Purchase Orders can be found here:
<http://www.pendercountync.gov/vendortermsandconditions/>.

-END-

Affidavit to follow on page 17

Appendix A – Schedule of Work and Fees to follow on pages 18-19

AFFIDAVIT

I, _____, being an authorized representative of the firm of _____
_____, located in the County/Town of _____
_____, State _____, Zip Code _____, have read and understood the contents of the
formal proposal and hereby submit our proposal accordingly as of this date _____.

Signature of Authorized Representative

Attest

Telephone # _____

Fax# _____

Email Contact: _____

State Contractor's License # _____ (Attach Copy)

APPENDIX A

Pender County Utilities - Schedule of Work and Fees

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
TANKS	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2030	2030/2031
Tank #1 Maple Hill Elevated Water Tank	Exterior Renovation (1 st Cycle) Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Tank #2 Rocky Point Elevated Water Tank	Exterior Renovation (1 st Cycle) & Interior Renovation Engineering Report, Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Tank #3 Highway 17 Elevated Water Tank	Visual Inspection & Engineering Report Bio-Film Washout & Engineering Report Emergency Service & Repairs	Interior Renovation & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Exterior Renovation (1 st Cycle) Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Tank #4 Highway 210 Ground Concrete Water Tank	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Exterior Renovation (1 st Cycle) Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Tank #5 Topsail Elevated Water Tank	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Exterior Renovation (1 st Cycle) Engineering Report, Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Interior Renovation & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Tank #6 Malpass Corner Elevated Water Tank	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Exterior Renovation (1 st Cycle) Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Total	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

NOTE: *Years are based on Budget Year

- Future exterior & interior renovations shall be scheduled based on the schedule of work set forth in this RFP.
- As a general rule, at a minimum, the exterior must be overcoated approx. every 9-10 years and interiors renovated every 14 years.

Schedule of Work and Fees (continued)

	Year 11	Year 12	Year 13	Year 14	Year 15
TANKS	2031/2032	2032/2033	2033/2034	2034/2034	2034/2035
Tank #1 Maple Hill Elevated Water Tank	Exterior Renovation (2 nd Cycle) & Interior Renovation Engineering Report, Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$
Tank #2 Rocky Point Elevated Water Tank	Exterior Renovation (2 nd Cycle) Engineering Report, Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Interior Renovation & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$
Tank #3 Highway 17 Elevated Water Tank	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Exterior Renovation (2 nd Cycle) & Interior Renovation Engineering Report, Emergency Service & Repairs
	\$	\$	\$	\$	\$
Tank #4 Highway 210 Ground Concrete Water Tank	Visual Inspection & Engineering Report Emergency Service & Repairs	Exterior Renovation (2 nd Cycle) Engineering Report, Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$
Tank #5 Topsail Elevated Water Tank	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Exterior Renovation (2 nd Cycle) Engineering Report, Emergency Service & Repairs	Bio-Film Washout & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$
Tank #6 Malpass Corner Elevated Water Tank	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Interior Renovation & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs	Visual Inspection & Engineering Report Emergency Service & Repairs
	\$	\$	\$	\$	\$
Total	\$	\$	\$	\$	\$

NOTE: *Years are based on Budget Year

- Future exterior & interior renovations shall be scheduled based on the schedule of work set forth in this RFP.
- As a general rule, at a minimum, the exterior must be overcoated approx. every 9-10 years and interiors renovated every 14 years.