CROM®

WATER INFRASTRUCTURE SOLUTIONS

RELINING OF HILTON ROAD WATER STORAGE TANK
IFB NO. 05-28-25-11
Coconut Creek, FL
Wednesday, May 28, 2025 at 11:00 AM EST

INNOVATE | DESIGN | BUILD | RESTORE | MAINTAIN

250 S.W. 36TH TERRACE | GAINESVILLE, FLORIDA | 32607-2889
PHONE 352.372.3436 | FAX 352.372.6209 | WWW.CROMCORP.COM
CHATTANOOGA, TN – FORT MYERS, FL – GAINESVILLE, FL – RALEIGH, NC – WEST PALM BEACH, FL

CROM
WATER INFRASTRUCTURE SOLUTIONS

1. Required Documents
   - Section F: Bid Sheets and Bid Schedule
   - Section G: Bid Bond
   - Section H: Non-Collusive Affidavit
   - Section I: Sworn Statement on Public Entity Crimes
   - Section J: Drug-Free Workplace Form
   - Section K: Indemnification Clause
   - Section L: Bidder's Qualification Statement
   - Section M: Certified Resolution
   - Section N: Florida (Non-Florida) Corporations
   - Section O: References
   - Section P: Acknowledgement of Conformance with O.S.H.A. Standards
   - Section Q: Bidder's Affidavit in Compliance with FL Trench Safety Act
   - Section R: Scrutinized Companies Certification
   - Section S: E-Verify Form
   - Certificate of Insurance
   - Business Tax Receipt
   - Copies of Valid Licenses and Certifications
   - Referenced Attachments

2. Qualifications

3. Financials

REQUIRED FORMS

BIDDER SHALL UPLOAD COMPLETED FORMS TO THE EBID SYSTEM

WWW.COCONUTCREEK.NET/FIN/PROCUREMENT

SECTION IV
REQUIRED FORMS

BID REQUIREMENTS CHECKLIST

Bidder has completed the required documents listed in the checklist below. The required documents shall be executed, notarized (if applicable), and submitted as a condition to this Invitation for Bids. Bidder shall electronically submit all required documents and any other pertinent information electronically through the eBid System.

Required Documents	Yes	No
Section F: Bid Sheets and Bid Schedule	☑	☐
Section G: Bid Bond	☑	☐
Section H: Non-Collusive Affidavit	☑	☐
Section I: Sworn Statement on Public Entity Crimes	☑	☐
Section J: Drug-Free Workplace Form	☑	☐
Section K: Indemnification Clause	☑	☐
Section L: Bidder's Qualification Statement	☑	☐
Section M: Certified Resolution	☑	☐
Section N: Florida (Non-Florida) Corporations	☑	☐
Section O: References	☑	☐
Section P: Acknowledgement of Conformance with O.S.H.A. Standards	☑	☐
Section Q: Bidder's Affidavit in Compliance with Florida Trench Safety Act	☑	☐
Section R: Scrutinized Companies Certification	☑	☐
Section S: E-Verify Form	☑	☐
Financials	☑	☐
Certificate of Insurance	☑	☐
Business Tax Receipt	☑	☐
Copies of Valid Licenses and Certifications	☑	☐

SECTION F

BID SHEETS

PROJECT NAME: Relining of Hilton Road Water Storage Tank
PROJECT NO.: IFB No. 05-28-25-11

THIS BID SUBMITTED BY: CROM, LLC
Company Name

Samantha Tillman
Authorized Company Representative

250 SW 36th Terrace
Address

Gainesville, FL 32607
City, State, Zip

1. The undersigned Bidder proposes and agrees, if this bid is accepted, to enter into an agreement with City in the form included in the Contract Documents to perform and furnish all work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this bid and in accordance with the other terms and conditions of the Contract Documents.

2. Bidder accepts all of the terms and conditions of the Invitation for Bids and Instructions to Bidders, including without limitation those dealing with the disposition of bid security. This bid will remain subject to acceptance for ninety (90) days after the day of bid opening. Bidder will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of City's Notice of Award.

3. In submitting this bid, Bidder represents, as more fully set forth in the Agreement, that:

   (a) Bidder has examined copies of all the Contract Documents and of the following Addenda (receipt of all which is hereby acknowledged.)

   Addendum No:_____ Dated:_____

   Addendum No:_____ Dated:_____

   Addendum No:_____ Dated:_____

   Addendum No:_____ Dated:_____

   (b) Bidder has familiarized himself with the nature and extent of the contract documents, work, site, locality, and all local conditions and law and regulations that in any manner may affect cost, progress, performance or furnishing of the work.

   (c) Bidder has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests and studies which pertain to the subsurface or physical conditions at the site or otherwise may affect

the cost, progress performance or furnishing of the work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by Bidder for such purposes.

(d) Bidder has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports or similar information or data in respect of said Underground Facilities are or will be required by Bidder in order to perform and furnish the work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents.

(e) Bidder has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

(f) Bidder has given Procurement Manager written notice of all conflicts, errors, discrepancies that it has discovered in the Contract Documents and the written resolution by the Procurement Manager is acceptable to Bidder.

(g) This bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the City.

4. Bidder will complete the work for the following price:

Lump Sum $ 928,600.00

Nine hundred twenty-eight thousand six hundred dollars and zero cents

Lump Sum (Written)

Add Alternate #1 as shown in Attachment "A" $ 9,000.00

Nine thousand dollars and zero cents

Lump Sum (Written)

5. Bidder agrees that the work will be completed within 105 calendar days after the date stipulated in the Notice to Proceed.

6. Communications concerning this bid shall be addressed to:

Company Name: CROM, LLC

Bidder's Name: Cameron Kenyon

Bidder's Title: Business Development Manager

Address: 250 SW 36th Terrace

City/State/Zip: Gainesville, FL 32607

Phone: 352-372-3436 Fax: 352-372-6209

Email: ckenyon@cromcorp.com

Web Address: www.cromcorp.com

7. The terms used in this bid are the same as defined in the General Conditions, Specifications and other parts of the Contract Documents

SUBMITTED on May, 28th, 2025

If BIDDER is:

An Individual

By _____
(SEAL) (Individual's Name)

doing business as _____

Business address: _____

_____

Phone No: _____

A Partnership

By _____
(SEAL) (Firm's Name)

_____
(General Partner)

Business address: _____

Phone No: _____

A Corporation

By CROM, LLC
(Corporation name)

Florida
(State of Incorporation)

By Samantha Tillman
(Name of Person Authorized to Sign)

Vice President & Assistant Secretary
(Title)

(Corporate Seal)

CROM, LLC STATE OF FLORIDA 1953

Attest _____ Vice President
(President)

Business address: 250 SW 36th Terrace
Gainesville, FL 32607

Phone No: 352-372-3436

A Joint Venture

By _____
(Name)

_____
(Address)

By _____
(Name)

_____
(Address)

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

SUBCONTRACTORS

In the form below, the Bidder shall list all subcontractors to be used on this project if the Bidder is awarded the Contract for this project.

CLASSIFICATION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR	LICENSE OR CERTIFICATION
N/A	N/A	N/A

CITY OF COCONUT CREEK
RELINING OF HILTON ROAD WATER
STORAGE TANK WITH SPECIFIED COATING
BID NO. 05-28-25-11

BID SCHEDULE

NOTES:

1. All bid prices shall be inclusive of all labor, equipment, material, all incidentals and testing costs including sales tax and all other applicable taxes and fees. Contractor to be responsible for all permit fees except City's.
2. The Bidder agrees to perform all the work described in the Contract Documents for a lump sum amount, or for the quantities listed for the applicable line item on the Bid Schedule.
3. It is the intention of the City to award a contract to the lowest responsible and responsive Bidder based on the total amount of the bid.
4. Any discrepancy between the written and electronic prices, the electronic prices shall prevail.

BIDDER SHALL SUBMIT PRICES ELECTRONICALLY THROUGH THE EBID SYSTEM "LINE ITEMS" TAB

WWW.COCONUTCREEK.NET/FIN/PROCUREMENT

PAYMENT METHODS

VISA PURCHASING CARD (reference informational flyer on following page):

The City of Coconut Creek has implemented a Visa Procurement Card (P-Card) Program through SunTrust Bank. The City's preference is to pay for goods/services with the P-Card. This program allows the City to expedite payment to our vendors. Some of the benefits of the P-Card Program to the vendor are: payment received within 72 hours of receipt and acceptance of goods, reduced paperwork, issue receipts instead of generating invoices, resulting in fewer invoice problems, and deal directly with the cardholder (in most cases).

Vendors accepting payment by the P-Card may not require the City (Cardholder) to pay a separate or additional convenience fee, surcharge or any part of any contemporaneous finance charge in connection with a transaction. Such charges are allowable, however must be included in the total cost of the bid. Vendors are not to add notations such as "+3% service fee" in their bid response. All bid responses shall be inclusive of any and all fees associated with the acceptance of the P-Card.

Vendors agreeing to accept payment by P-Card must presently have the capability to accept Visa or take whatever steps necessary to implement the ability before the start of the agreement term.

EFT

The City of Coconut Creek's Electronic Funds Transfer (EFT) Program allows the City to process payments to vendors electronically, directly to their financial institution of choice. With EFT payments, funds are deposited to vendor's bank account and are available the date the bank receives them. There will be no more waiting to receive payments in the mail, and no trips to the bank to make deposits. EFT payments also reduced the risk of misrouting, theft, and forgery. Additionally, an automated e-mail of the remittance advice will be sent to the e-mail specified by the vendor.

PAPER CHECK

Paper checks can also be processed by the City for vendor payments.

Completion Time: 105 Calendar Days

Work shall be commenced in accordance with the Agreement date and shall be completed within 105 calendar days as stipulated in the Notice to Proceed.

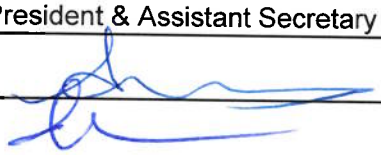
Bidder: CROM, LLC

Address: 250 SW 36th Terrace

City/State/Zip Gainesville, FL 32607

By: Samantha Tillman

Title: Vice President & Assistant Secretary

Signature: 

Attest:

(CORPORATE SEAL)

REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK

EXCEPTION TO THE INVITATION FOR BIDS

NOTE: Bids that are exceptions to that which are specified and outlined below. (Additional sheets may be attached.) However, all alterations or omissions of required information or any change in bid requirements is done at the risk of the Bidder presenting the bid and may result in the rejection.

N/A

SECTION G

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, CROM, LLC.

as Principal and Contractor, and Travelers Casualty and Surety Company of America

hereinafter called Surety, are held and firmly bound unto City of Coconut Creek, a political subdivision of the State of Florida, and represented by its City Manager, in the sum of five percent (5%) of the total amount bid of:

One Million One Hundred Thousand Dollars
(Written Dollar Amount)

dollars ($ 1,100,000) lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally by these presents.

WHEREAS, the Principal contemplates submitting or has submitted, a bid to the City of Coconut Creek for the furnishing of all labor, materials (except those to be specifically furnished by the City), equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the bid and the detailed Drawings and Specifications, entitled:

RELINING OF HILTON ROAD WATER STORAGE TANK
BID NO. 05-28-25-11

WHEREAS, it was a condition precedent to the submission of said bid that a cashier's check, certified check, or bid bond in the amount of five percent (5%) of the Base Bid be submitted with said bid as a guarantee that the Bidder would, if awarded the Contract, enter into a written Contract with the City for the performance of said Contract, within ten (10) consecutive calendar days after written notice having been given of the award of the Contract.

NOW, THEREFORE, the conditions of this obligation are such that if the Principal within ten (10) consecutive calendar days after written notice of such acceptance, enters into a written Contract with the City of Coconut Creek and furnishes the Performance and Payment Bonds, each in an amount equal to one hundred percent (100%) of the awarded bid, satisfactory to the City, then this obligation shall be void; otherwise the sum herein stated shall be due and payable to the City of Coconut Creek and the Surety herein agrees to pay said sum immediately upon demand of the City in good and lawful money of the United States of America, as liquidated damages for failure thereof of said Principal.

IN WITNESS WHEREOF, the said CROM, LLC.
as Principal herein, has caused these presents to be signed in its name by its _____
_____ and attested by its _____
_____ under its corporate seal, and the said _____
Travelers Casualty and Surety Company of America as Surety herein, has caused these presents
to be signed in its name by its Attorney-In-Fact
_____ and attested in its name by its Witness
_____ under its corporate seal, this 28th day of May A.D.,
2025.

Signed, sealed and delivered
in the presence of:

Matthew Brower

Taylor Chastain
As to Principal

STATE OF FLORIDA 1953 CROM, LLC

Hallie Martin
Hallie Martin, Witness
As to Surety

CROM, LLC.
250 SW 36th Terrace
PRINCIPAL: Gainesville, FL 32607

BY: _____

NAME: Chad Smith

Travelers Casualty and Surety Company of America
One Tower Square Hartford, CT 06183
Surety

BY: _____
Jessie Sloan, Attorney-in-Fact &
Florida Licensed Resident Agent
(Power-of-Attorney to be attached)

BY: N/A
Resident Agent

HARTFORD, CONN.

Inquiries: (321) 800-6594

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **JESSIE L SLOAN** of **ORLANDO**, **Florida**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April, 2021**.

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes,** the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **28th** day of **May**, **2025**.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

SECTION H

NON-COLLUSIVE AFFIDAVIT

State of Florida)
) ss
County of Alachua)

Samantha Tillman being first duly sworn, deposes and says that:

(1) He/she is the Officer (Owner, Partner, Officer, Representative or Agent) of CROM, LLC the Bidder that has submitted the attached bid;

(2) He/she is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

(3) Such bid is genuine and is not a collusive or sham bid;

(4) Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm, or person to submit a collusive or sham proposal in connection with the work for which the attached proposal has been submitted; or to refrain from bidding in connection with such work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or meeting with any Bidder, firm or person to fix the price or prices in the attached bid of any other Bidder, or to fix an overhead, profit, or cost elements of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed work;

(5) The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder or any other of its agents, representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered
in the presence of:

By: _____

Samantha Tillman
(Printed Name)

Vice President & Assistant Secretary
(Title)

ACKNOWLEDGEMENT

State of Florida

County of Alachua

The foregoing instrument was acknowledged before me this 28th day of May, 2025, by Samantha Tillman, who is personally known to me or who has produced personally known as identification and who did (did not) take an oath.

WITNESS my hand and official seal

NOTARY PUBLIC

MATTHEW BROWER
Notary Public - State of Florida
Commission # HH 447347
My Comm. Expires Sep 24, 2027
Bonded through National Notary Assn.

(Name of Notary Public: Print, Stamp, or
Type as Commissioned.)

SECTION I

SWORN STATEMENT
ON PUBLIC ENTITY CRIMES
UNDER FLORIDA STATUTES CHAPTER 287.133(3)(a).

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid No. 05-28-25-11 for Relining of Hilton Road Water Storage Tank.

2. This sworn statement is submitted by CROM, LLC (name of entity submitting sworn statement) whose business address is 250 SW 36th Terrace, Gainesville, FL 32607 and (if applicable) its Federal Employer Identification Number (FEIN) is 59-0702495. (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____.)

3. My name is Samantha Tillman (Please print name of individual signing) and my relationship to the entity named above is Vice President & Assistant Secretary.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that a "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, includes but is not limited to:

   1. A predecessor or successor of a person convicted of a public entity crime: or

   2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The Ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

7. I understand that a "person" as defined in Section 287.133(1)(e), Florida Statutes as amended from time to time, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, who are active, or who have been active, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity within the last five (5) years of this sworn statement.

8. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **Please check all statements that are applicable.**

☒ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

☐ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

☐ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

☐ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

9. Based on information and belief, the statement that I have marked below is true in relation to the entity submitting this sworn statement. **Please check if statement is applicable.**

☒ The person or affiliate has not been placed on the convicted vendor list.
(If the box is not checked, please describe any action taken by or pending with the Department of General Services.)

10. The herein sworn statement shall be subject to and incorporate all the terms and conditions contained in Section 287.133, Florida Statutes as amended from time to time.

11. Conviction of a public entity crime shall be cause for disqualification.

CROM, LLC
Bidder's Name

Signature

Date: 5/28/2025

State of: Florida

County of: Alachua

The foregoing instrument was acknowledged before me this 28th day of May, 2025, by Samantha Tillman, who is (who are) personally known to me or who has produced personally known as identification and who did (did not) take an oath.

Notary Public Signature

Notary Name, Printed, Typed or Stamped

MATTHEW BROWER
Notary Public - State of Florida
Commission # HH 447347
My Comm. Expires Sep 24, 2027
Bonded through National Notary Assn.

Commission Number: HH 447347

My Commission Expires: Sep 24, 2027

SECTION J

DRUG-FREE WORKPLACE FORM

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that (Name of Business)

CROM, LLC does:

1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).

4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.

5) Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

Bidder's Signature	Company Name	Date
	CROM, LLC	5/28/2025

SECTION K

INDEMNIFICATION CLAUSE

The parties agree that one percent (1%) of the total compensation paid to Contractor for the work of the Contract shall constitute specific consideration to Contractor for the indemnification to be provided under the Contract. The Contractor shall indemnify and hold harmless the City Commission, the City of Coconut Creek, and their agents and employees from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the work provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including the loss of use resulting therefrom, and (2) is caused in whole or in part by any negligent act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

In any and all claims against the City, or any of their agents or employees by any employee of the Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Paragraph shall not be limited in any way by any limitation on this amount or type of damages compensation or benefits payable by or for the Contractor or any subcontractor under Workers' Compensation Acts, Disability Benefit Acts or other Employee Benefit Acts. Nothing in this section shall affect the immunities of the City pursuant to Chapter 768, Florida Statutes, as amended from time to time, nor shall it constitute an agreement by the City to indemnify Contractor, its officers, employers, subcontractors or agents against any claim or cause of action. This section shall not be construed as consent to be sued by any third parties in any matter arising out of this Agreement. The foregoing indemnification and release shall survive the termination of this Agreement.

CROM, LLC
Contractor's Name

Signature

5/28/2025
Date

State of: Florida

County of: Alachua

The foregoing instrument was acknowledge before me this 28th day of May, 2025, by Samantha Tillman, who is (who are) personally known to me or who has produced personally known as identification and who did (did not) take an oath.

Notary Public Signature

MATTHEW BROWER
Notary Public - State of Florida
Commission # HH 447347
My Comm. Expires Sep 24, 2027
Bonded through National Notary Assn.

Notary Name, Printed, Typed or Stamped

Commission Number: HH 447347

My Commission Expires: Sep 24, 2027

SECTION L

BIDDER'S QUALIFICATIONS

NOTE: This statement of Bidder's Qualifications must be completely filled out, properly executed and returned as part of your bid.

1. List the true, exact and proper names of the company, partnership, corporation, trade or fictitious name under which you do business and principals by name and titles:

Name of Company: CROM, LLC

Address: 250 SW 36th Terrace

City: Gainesville State: Florida Zip: 32607

Phone No.: 352-372-3436 Fax No.: 352-372-6209

Federal Tax I.D.: 59-0702495

Principals: Robert G. Oyenarte, PE Titles: Chief Executive Officer

Cristopher M. Baldwin Chief Financial Officer & Treasurer

Jeffrey A. Pomeroy Senior Vice President & Assistant Secretary

2. a. Are you licensed, as may be required, in the designated area(s) of Broward County, Florida?

Yes ✓ No

b. List Principals Licensed:

Name(s): Robert G. Oyenarte, PE Title: Chief Executive Officer

Remarks: FL GC: CGC1517301 FL Business Tax ID: 36596 FL PE: PE59444

c.. List Principals Certified:

Name(s): Robert G. Oyenarte, PE Title: Chief Executive Officer

Remarks: Certificate of Good Standing FL: L14000042855

3. How long has your company been in business and so licensed? 72 Years

4. If Bidder is an **individual** or a **partnership**, answer the following: N/A, a Corporation.

a. Date of organization: N/A

b. Name, address and Ownership percentage of all partners:

N/A

c. State whether general or limited partnership: N/A

If Bidder is other than an individual, corporation or partnership, describe the organization and give the name and address of principals.

N/A

5. If Bidder is operating under a fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute. N/A

6. How many years has your organization been in business under its present business name?

72 Years, 03/13/2014, effective 12/30/1953

a. Under what other former names has your organization operated?

The CROM Corporation

CROM Coatings and Restoration

7. a. Has your company ever failed to complete a bonded obligation or to complete a Contract?

Yes_____ No X

b. If so, give particulars including circumstances, where and when, name of bonding company, name and address of City and disposition of matter:

N/A

8. Litigation/Judgments/Settlements/Debarments/Suspensions:
Submit information on any pending litigation and any judgments and settlements of court cases relative to providing the services requested herein that have occurred within the last three (3) years. Also indicate if your firm has been debarred or suspended from doing business with any government agency and/or professional board.

Please refer to attached 3-Year Litigation Summary. CROM has not been debarred or suspended from doing business with any government agency and/or professional board.

9. a. List the pertinent experience of the key individuals of your organization (continue on insert sheet, if necessary).

***see attached list and also refer to resumes.**

b. State the name of the individual(s) and titles who will personally supervise the work:

Nick Martin - Regional Lead South FL, Rick Smith - QA/QC Manager, Cesar Cornejo - Project Manager II, Clemente Pichardo - Project Manager III Senor, Wilberto Garcia - General Superintendent, Julio Gomez - General Superintendent, Isaac Morales - Director of UHP, and Herman Adams - Director of HSE. ***see attached resumes**

10. List name and title of persons in your company who are authorized to enter into a Contract with the City of Coconut Creek, Florida for the proposed work should your company be the Successful Bidder.

***Please refer to attachment "CROM Resolution of the Managers"**

Name:

Title:

11. Have you ever failed to complete any work awarded to you? If so, state when, where and why?

No, CROM has not failed to complete any awarded work.

12. Will you subcontract any part of this work? If so, give details including a list of each subcontractor(s) that will perform work in excess of ten percent (10%) of the contract amount, the approximate percentage, and the work that will be performed by each such subcontractor(s). Include the name of the subcontractor(s) and the approximate percentage of work.

No. N/A

13. Under what conditions does the Bidder request Change Orders.

14. Bank References:

Bank	Address/City/State/Zip	Telephone
Truist	3500 E. Silver Springs Blvd. Ocala, FL 34470	352-512-6470

15. Attach a financial statement including Bidder's latest balance sheet and income statement showing the following items: ***see attached financial statement**

a) Current Assets (e.g. cash, joint venture accounts, accounts receivable, notes, receivable, accrued income, deposits, materials, real estate, stocks and bonds, equipment, furniture and fixtures, inventory and prepaid expenses)

b) Net Fixed Assets

c) Other Assets

d) Current Liabilities (e.g. accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries, real estate encumbrances and accrued payroll taxes)

e) Other Liabilities (e.g. capital, capital stock, authorized and outstanding shares par values, earned surplus, and retained earnings)

16. State the name of the firm preparing the financial statement and date thereof:
Cohen & Co

17. Is this financial statement for the identical organization named on page one? Yes ☐ No ☒

18. If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g. parent-subsidiary).
The Crom Corporation and Subsidiaries is parent to CROM, LLC

19. Have you personally inspected the site of the proposed work?

Yes ☒ No ☐

20. Do you have a complete set of documents, including drawings and addenda, if applicable?

Yes ☒ No ☐

21. Did you attend the non-mandatory pre-bid meeting if any such meeting was held?

Yes ☒ No ☐ No Meeting Held ☐

The undersigned guarantees the authenticity of the foregoing statements and does hereby authorize and request any person, firm or corporation to furnish any information requested by the City of Coconut Creek, Florida to verification of the recitals comprising this statement of the Bidder's qualifications. **DISCOVERY OF ANY OMISSION OR MISSTATEMENT THAT MATERIALLY AFFECTS THE BIDDER'S QUALIFICATIONS TO PERFORM UNDER THE CONTRACT SHALL CAUSE THE CITY TO REJECT THE BID, AND IF AFTER THE AWARD TO CANCEL AND TERMINATE THE AWARD AND/OR CONTRACT.**

Date: 5/28/2025

Signature

Samantha Tillman
Print Name

CROM, LLC
Company

Vice President & Assistant Secretary
Title

If (Corporation (Seal)) If Individual or Partnership, two Witnesses are required:

Witness

Witness

Respectfully submitted

(CORPORATE SEAL)

CROM, LLC
Company – Contractor

CROM, LLC STATE OF FLORIDA 1953

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BIDDER'S QUALIFICATIONS

ATTEST:

Secretary

By Samantha Tillman (Seal)
President

Witness

Witness

CROM, LLC STATE OF FLORIDA 1953

Contractor Signature

Registration No.: FL GC: CGC1517301

Certifications: QP-8, AMPP CCI Level 3, and Nace CIP Level 3

Qualifying Individual: Robert G. Oyenarte, PE

SECTION M

CERTIFIED RESOLUTION

I, Samantha Tillman (Name), the duty elected Secretary of CROM, LLC (Corporate Title), a corporation organized and existing under the laws of the State of Florida, do hereby certify that the following Resolution was unanimously adopted and passed by a quorum of the Board of Directors of the Said corporation at a meeting held in accordance with law and the by-laws of the said corporation.

"IT IS HEREBY RESOLVED THAT Samantha Tillman (Name)." The duly elected Vice President (Title of Officer) of CROM, LLC (Corporate title) be and is hereby authorized to execute and submit a Bid and Bid Bond, if such bond is required, to the City of Coconut Creek and such other instruments in writing as may be necessary on behalf of the said corporation; and that the Bid, Bid Bond, and other such instruments signed by him/her shall be binding upon the said corporation as its own acts and deeds. The secretary shall certify the names and signatures of those authorized to act by the foregoing resolution.

The City of Coconut Creek shall be fully protected in relying upon such certification of the secretary and shall be indemnified and saved harmless from any and all claims, demands, expenses, loss or damage resulting from or growing out of honoring, the signature of any person so certified or for refusing to honor any signature not so certified.

I further certify that the above resolution is in force and effect and has not been revised, revoked or rescinded.

I further certify that the following are the names, titles and official signatures of those persons authorized to act by the foregoing resolution.

Name	Title	Signature
Samantha Tillman	Vice President & Assistant Secretary	

***Please refer to attachment "CROM Resolution of the Managers" for complete list of persons authorized.**

Given under my hand and the Seal of the said corporation this 28th day of May, 2025.

(SEAL) CROM, LLC STATE OF FLORIDA 1953

By: _____
Secretary

_____
Corporate

NOTE: The above is a suggested form of the type of Corporate Resolution desired. Such form need not be followed explicitly, but the Certified Resolution submitted must clearly show to the satisfaction of the City of Coconut Creek that the person signing the Bid and Bid Bond for the corporation has been properly empowered by the corporation to do so in its behalf.

SECTION N

FOREIGN (NON-FLORIDA) CORPORATIONS MUST COMPLETE THIS FORM

DEPARTMENT OF STATE CORPORATE CHARTER NO. **N/A – CROM, LLC is a Florida Corporation.**

If your corporation is exempt from the requirements of Section 607.1501, Florida Statutes as amended from time to time, *YOU MUST CHECK BELOW* the reason(s) for the exemption. Please contact the Department of State, Division of Corporations at (850) 245-6051 for assistance with corporate registration or exemptions.

607.1501 Authority of foreign corporation to transact business required.

(1) A foreign corporation may not transact business in this state until it obtains a certificate of authority from the Department of State.

(2) The following activities, among others, do not constitute transacting business within meaning of subsection (1):

_____(a) Maintaining, defending, or settling any proceeding.

_____(b) Holding meetings of the board of directors or shareholders or carrying on other activities concerning internal corporate affairs.

_____(c) Maintaining bank accounts.

_____(d) Maintaining officers or agencies for the transfer, exchange, and registration of the corporation's own securities or maintaining trustees or depositaries with respect to those securities.

_____(e) Selling through independent Contractors.

_____(f) Soliciting or obtaining orders, whether by mail or through employees, agents, or otherwise, if the orders require acceptance outside this state before they become contracts.

_____(g) Creating or acquiring indebtedness, mortgages, and security interests in real or personal property.

_____(h) Securing or collecting debts or enforcing mortgages and security interests in property securing the debts.

_____(i) Transacting business in interstate commerce.

_____(j) Conducting an isolated transaction that is completed within 30 days and that is not one in the course of repeated transactions of a like nature.

_____(k) Owning and controlling a subsidiary corporation incorporated in or transacting business within this state or voting the stock of any corporation which it has lawfully acquired.

_____(l) Owning a limited partnership interest in a limited partnership that is doing business within this state, unless such limited partner manages or controls the partnership or exercises the powers and duties of a general partner.

_____(m) Owning, without more, real or personal property.

(3) The list of activities in subsection (2) is not exhaustive.

(4) This section has no application to the question of whether any foreign corporation is subject to service of process and suit in this state under any law of this state.

Please check one of the following if your firm is NOT a corporation:

(I)_____ Partnership, Joint Venture, Estate or Trust

(II)_____ Sole Proprietorship or Self- Employed

NOTE: This sheet *MUST* be enclosed with your bid if you claim an exemption or have checked I or II above. If you do not check I or II above, your firm will be considered a corporation and subject to all requirements listed herein.

***N/A – CROM, LLC is a Florida Corporation.**

CROM, LLC

BIDDER'S CORRECT LEGAL NAME

SIGNATURE OF AUTHORIZED AGENT OF BIDDER

SECTION O

REFERENCES

The following is a list of at least four (4) references that Contractor has provided similar service in the past three (3) years. Government agency references are preferred.

1. Name of Firm, City, County or Agency: Hiwassee Utilities Commission / Morgan Contracting, Inc.
   Address: 3973 Chatata Valley Road
   City/State/Zip: Charleston, TN 37310
   Contact: Aaron Shott Title: Project Manager
   Email Address: ashott@morgan1.com
   Telephone: 386-405-8499 Fax: N/A
   Scope of Work: CROM Project No. 2023R050
   Hiwassee Filters 1-4 Rehabilitation and Improvements - Tnemec Series 265 applied roughly 8,500 SF

2. Name of Firm, City, County or Agency: Lexington-Fayette Urban County Government
   Address: 200 E Main St.
   City/State/Zip: Lexington, KY 40507
   Contact: Emily Epperson Title: Municipal Engineer Sr.
   Email Address: eepperson@lexingtonky.gov
   Telephone: 859-425-2596 Fax: N/A
   Scope of Work: CROM Project No. 2022R059
   Town Branch WWTP Concrete Channel Repairs, Phase I - Full Permasheild application 5500SF

3. Name of Firm, City, County or Agency: Pasco County
   Address: 14230 Hayes Road
   City/State/Zip: Spring Hill, Florida 34610
   Contact: Paul Petrey Title: President
   Email Address: Paul@applieddrillingengineering.com
   Telephone: 813-695-4358 Fax: N/A
   Scope of Work: CROM Project No. 2022R062
   Waterproofing Membrane System 2.0 MG Leachate Storage Tank

4. Name of Firm, City, County or Agency: City of Monroe Water Resources Dept.
   Address: 2401 Walkup Ave
   City/State/Zip: Monroe, NC 28111
   Contact: David Rankin Title: WTP Superintendent
   Email Address: drankin@monroenc.org
   Telephone: 704-282-4668 Fax: N/A
   Scope of Work: CROM Project No. 2021R070
   John Glenn WTP Treatment Basin Protective Coating

NOTE: Additional references may be attached and provided.

SECTION P

ACKNOWLEDGEMENT OF CONFORMANCE WITH O.S.H.A. STANDARDS

TO: CITY OF COCONUT CREEK

We, CROM, LLC (Prime Contractor), hereby acknowledge and agree that as Contractors for Relining of Hilton Road Water Storage Tank, IFB No. 05-28-25-11, as specified have the sole responsibility for compliance with all the requirements of the Federal Occupational Safety and Health Act of 1970, and all state and local safety and health regulations, and agree to indemnify and hold harmless the City of Coconut Creek against any and all liability, claims, damages, losses and expenses they may incur due to the failure of

None, N/A.
(Subcontractors Names)

to comply with such act or regulation.

CROM, LLC
Contractor

BY _____

ATTEST

ATTEST

5/28/2025
DATE

SECTION Q

BIDDER'S AFFIDAVIT IN COMPLIANCE WITH FLORIDA TRENCH SAFETY ACT (SECTION 553.60-553.64, FLORIDA STATUTES)

STATE OF FLORIDA)
) SS
CITY OF COCONUT CREEK)

BEFORE ME, the undersigned authority, personally appeared Samantha Tillman, who being duly sworn deposes and says as follows:

That he/she is duly authorized representative of CROM, LLC and such (City) (Partner) (President or other Corporate Officer)

has full authority to execute this Bidder's Affidavit.

1. The full legal name and business address of the person or entity submitting this bid:

   CROM, LLC

   250 SW 36th Terrace

   Gainesville, FL 32607

2. By submission of this bid and subsequent execution of this Contract, the undersigned Bidder certifies that as Successful Bidder (Contractor) all trench excavation done within his control (by his own forces or by his Subcontractors) shall be accomplished in strict adherence with OSHA trench safety standards contained in 29 C.F.R., s. 1926.650, Subpart P, including all subsequent revisions or updates to these standards as adopted by the Department of Labor and Employment Security.

3. The undersigned Bidder certifies that as Successful Bidder (Contractor) he has obtained or will obtain identical certification from his proposed Subcontractors that will perform trench excavation prior to award of the subcontracts and that he will retain such certifications in his files for a period of not less than three years following final acceptance.

4. The Bidder acknowledges that included in the various items listed in the Schedule of Prices Bid and in the Total Amount Bid are costs for complying with the Florida Trench Safety Act (Sections 553.60-553.64, Florida Statutes as amended from time to time). The Bidder further identifies the costs to be summarized on the following page*:

	Trench Safety Measure	Units of Measure	Unit Quantity	Extended Unit Cost	Cost
A.	N/A	N/A	N/A	N/A	N/A
B.					
C.					
D.					

TOTAL: N/A

Method of Compliance (Specify) N/A

Date: May 28th, 2025.

Samantha Tillman
Name of Affiant

SWORN to and subscribed before me this 28th day of May, 2025.

NOTARY PUBLIC, State of Florida at Large

(Notary Seal)

MATTHEW BROWER
Notary Public - State of Florida
Commission # HH 447347
My Comm. Expires Sep 24, 2027
Bonded through National Notary Assn.

My Commission expires:

Sep 24, 2027

*Bidders: Add extra sheet(s), if needed.

If Bidder fails to complete and execute this sworn statement/affidavit, his bid may be declared non-responsive and rejected by City of Coconut Creek.

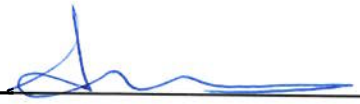
SECTION R

SCRUTINIZED COMPANIES CERTIFICATION PURSUANT TO FLORIDA STATUTE § 215.4725 AND § 215.473

I, Samantha Tillman, on behalf of CROM, LLC,
Print Name Company Name

certifies that CROM, LLC does not:
Company Name

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel list; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Cuba or Syria.



Signature

Vice President & Assistant Secretary
Title

352-372-3436
Phone

5/28/2025
Date

SECTION S

E-VERIFY FORM

Project Name:	Relining of Hilton Road Water Storage Tank
Project No.:	IFB No. 05-28-25-11

ACKNOWLEDGEMENT

Definitions:

"Contractor" means a person or entity that has entered or is attempting to enter into a contract with a public employer to provide labor, supplies, or services to such employer in exchange for salary, wages, or other remuneration.

"Subcontractor" means a person or entity that provides labor, supplies, or services to or for a Contractor or another subcontractor in exchange for salary, wages, or other remuneration.

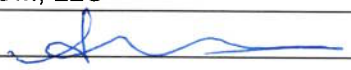
Effective January 1, 2021, public and private employers, Contractors and subcontractors will begin required registration with, and use of the E-verify system in order to verify the work authorization status of all newly hired employees. Vendor/Consultant/Contractor acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of:

(a) All persons employed by Vendor/Consultant/Contractor to perform employment duties within Florida during the term of the contract; and

(b) All persons (including subvendors/subconsultants/subcontractors) assigned by Vendor/Consultant/Contractor to perform work pursuant to the contract with the Department. The Vendor/Consultant/Contractor acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the contract is a condition of the contract with the City of Coconut Creek; and

Should vendor become successful Contractor awarded for the above-named project, by entering into this Contract, the Contractor becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility," as amended from time to time. This includes but is not limited to utilization of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract. Failure to comply will lead to termination of this Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit Court no later than 20 calendar days after the date of termination. If this contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of 1 year after the date of termination.

COMPANY CONTACT INFORMATION

Company Name:	CROM, LLC
Authorized Signature:	
Print Name:	Samantha Tillman
Title	Vice President & Assistant Secretary
Date:	5/28/2025
Phone:	352-372-3436
Email:	ccradmin@cromcorp.com
Website:	www.cromcorp.com

CERTIFICATE OF INSURANCE

CROM®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 5/13/2025

12/31/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies, LLC 444 W. 47th St., Ste. 900 Kansas City MO 64112-1906 (816) 960-9000 kcasu@lockton.com	**CONTACT NAME:** **PHONE (A/C, No, Ext):** **FAX (A/C, No):** **E-MAIL ADDRESS:**
INSURED 1559667 CROM, LLC CROM COATINGS AND RESTORATIONS 250 SW 36TH TERRACE GAINESVILLE FL 32607	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Ironshore Specialty Insurance Co — 25445 **INSURER B :** Liberty Mutual Fire Insurance Company — 23035 **INSURER C :** Employers Insurance Company of Wausau — 21458 **INSURER D :** Indian Harbor Insurance Company — 36940 **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 21799172 **REVISION NUMBER:** XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [X] PRO-JECT [X] LOC OTHER:	N	N	IEPUW0031581900	12/31/2024	12/31/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 500,000 $ 25,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	**AUTOMOBILE LIABILITY** [X] ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY	N	N	AS2-Z91-469956-034	12/31/2024	12/31/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX
A	[X] **UMBRELLA LIAB** OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $	N	N	XSCUW0031582000	12/31/2024	12/31/2025	EACH OCCURRENCE AGGREGATE	$ 10,000,000 $ 10,000,000
C	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N [N] N/A **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below		N	WCC-Z91-469956-014	12/31/2024	12/31/2025	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ XXXXXXX $ 1,000,000 $ 1,000,000 $ 1,000,000
D	PROFESSIONAL LIABILITY	N	N	PEC0067407	12/31/2024	12/31/2025	$5,000,000 PER OCC/AGG	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

EVIDENCE OF INSURANCE - BIDDING PURPOSES.

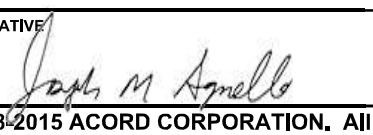
CERTIFICATE HOLDER

21799172
CROM, LLC
CROM COATINGS AND RESTORATIONS
250 SW 36TH TERRACE
GAINESVILLE FL 32607

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



BUSINESS TAX RECEIPT

CROM®

Your payment was processed. Print this tax receipt for your records. It was also sent to stillman@cromcorp.com

Online Business Tax Receipt(1)

Business Name **CROM, LLC**

Business Tax ID **36596**

This constitutes your business tax receipt for 10/1/2024 - 9/30/2025.

Your business tax(es) for the fiscal year ***10/1/2024 - 9/30/2025*** are as follows:

Business Categories

ID	Service Name	Tax Amount	Explanation of Calculations
1000	STATE LICENSE/CERTIFICATION REQUIRED	$0.00	
1360	CONTRACTOR-GENERAL-UNLIMITED	$131.25	Business category flat fee of $131.25
1940	ENGINEER	$210.00	Per item fee $105.00. Value submitted for taxation is 2.
6801	COMMERCIALLY ZONED	$0.00	
****	Payment	($341.25)	Posted on 9/5/2024
	TOTAL DUE:	$0.00	

Please note that the maximum charge for any single service is $525

Amount Due on ***Monday, September 30, 2024*** is **$0.00**

(1) This page will serve as your business tax receipt for the fiscal year 10/1/2024 - 9/30/2025.

Payments must be time-stamped by 11:59 pm on Tuesday, October 1, 2024 in order to avoid late fees.

Please, note that a home occupation permit may be required for this location, someone will contact you upon review of the information

COPIES OF VALID LICENSES AND CERTIFICATIONS

CROM®

Florida General Contractors License

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

OYENARTE, ROBERT GLENN

CROM, LLC
250 SW 36TH TERRACE
GAINESVILLE FL 32607

LICENSE NUMBER: CGC1517301

EXPIRATION DATE: AUGUST 31, 2026

Always verify licenses online at MyFloridaLicense.com

ISSUED: 06/06/2024

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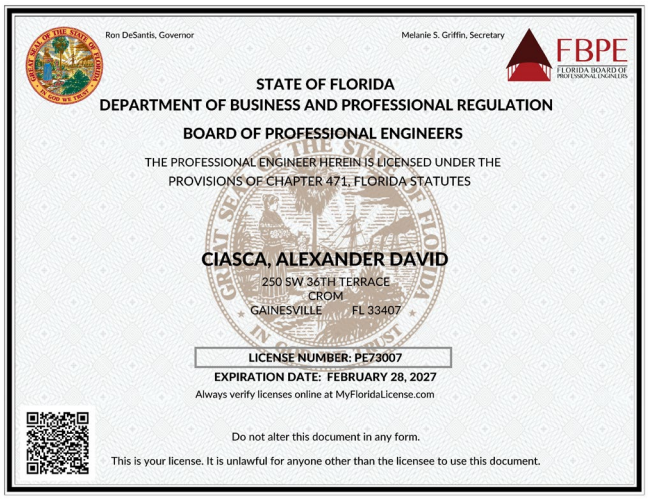
Florida Professional Engineers Licenses



Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CIASCA, ALEXANDER DAVID
250 SW 36TH TERRACE
CROM
GAINESVILLE FL 33407

LICENSE NUMBER: PE73007
EXPIRATION DATE: FEBRUARY 28, 2027
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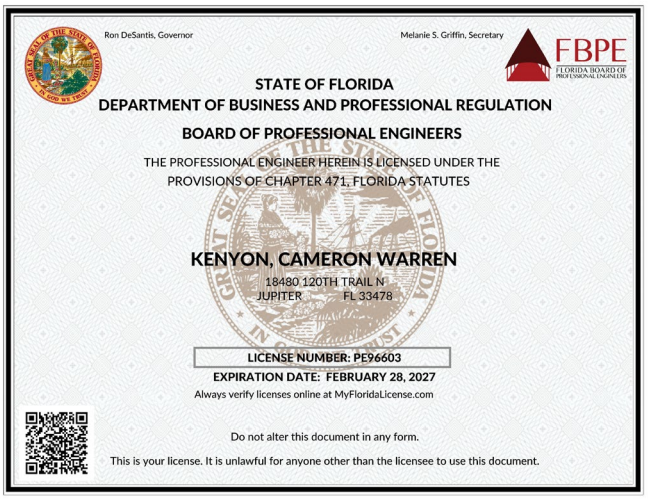

Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

KENYON, CAMERON WARREN
18480 120TH TRAIL N
JUPITER FL 33478

LICENSE NUMBER: PE96603
EXPIRATION DATE: FEBRUARY 28, 2027
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Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CIANCONE, GIANNI T.
1118 NW 134TH DR
NEWBERRY FL 32669

LICENSE NUMBER: PE77546
EXPIRATION DATE: FEBRUARY 28, 2027
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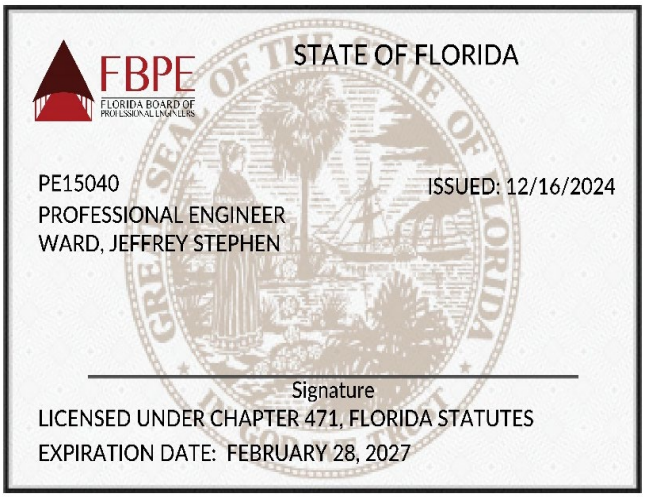


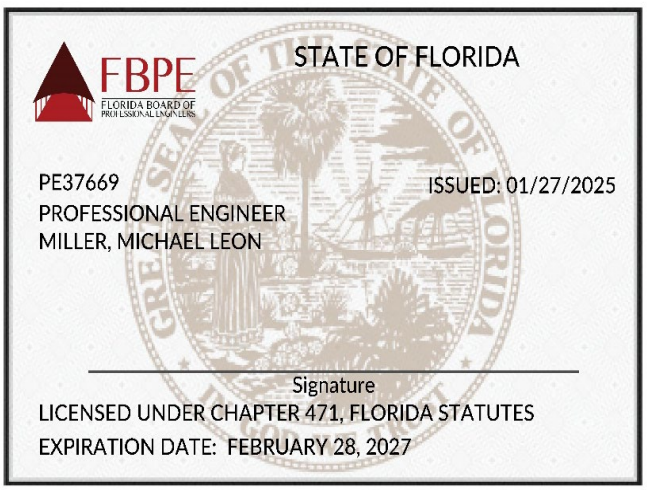
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

PE15040
PROFESSIONAL ENGINEER
WARD, JEFFREY STEPHEN

ISSUED: 12/16/2024

Signature
LICENSED UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION DATE: FEBRUARY 28, 2027



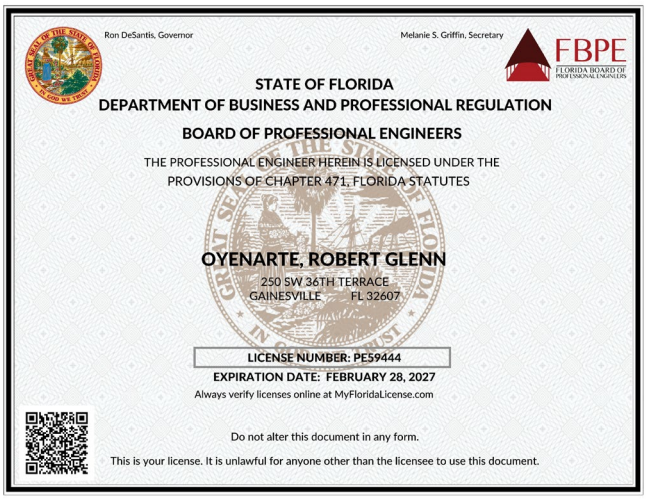
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

PE37669
PROFESSIONAL ENGINEER
MILLER, MICHAEL LEON

ISSUED: 01/27/2025

Signature
LICENSED UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION DATE: FEBRUARY 28, 2027



Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

OYENARTE, ROBERT GLENN
250 SW 36TH TERRACE
GAINESVILLE FL 32607

LICENSE NUMBER: PE59444
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

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AMPP™

CROM, LLC
of
Gainesville, FL

has met or exceeded the requirements set forth in the ***AMPP QP Accreditation Program*** *for*

AMPP™
QP 8
POLYMER COATINGS
SSPC ACCREDITED CONTRACTOR

INSTALLATION OF POLYMER COATINGS AND SURFACINGS ON CONCRETE
SSPC – QP 8

Chief Product and Operations Officer, AMPP

March 31, 2025 – March 31, 2026
Validation Period

Accreditation for dates listed above to CROM, LLC. Gainesville, FL
Owners are advised to contact qpinfo@ampp.org to verify authenticity of accreditation.

Corporate Headquarters: Houston – 15835 Park Ten Place, Houston, TX 77084
Pittsburgh – 800 Trumbull Drive, Pittsburgh, PA 15205

State of Florida
Department of State

I certify from the records of this office that CROM, LLC is a limited liability company organized under the laws of the State of Florida, filed on March 13, 2014, effective December 30, 1953.

The document number of this limited liability company is L14000042855.

I further certify that said limited liability company has paid all fees due this office through December 31, 2025, that its most recent annual report was filed on January 9, 2025, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eighteenth day of March, 2025

Secretary of State

Tracking Number: 4123905931CU

To authenticate this certificate,visit the following site,enter this number, and then follow the instructions displayed.

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication

American Shotcrete Association

Certificate of Qualification

Based on the information and documents provided to and reviewed by the American Shotcrete Association,

CROM LLC

has successfully completed
the ASA Contractor Qualification requirements and
is hereby recognized as a
Wet-Mix - SII
Qualified Shotcrete Contractor

Qualification Period:
March 2025 - March 2030

Qualifying Individual:

Bruce Russell

american shotcrete association | asa shotcrete.org

Charles Hanskat, ASA Executive Director

THREE YEAR LITIGATION SUMMARY

CROM®

CROM®

TRUSTED | EXPERIENCED | RELIABLE SINCE 1953

Rev. 01-23-25

Three (3) Year Litigation Summary
CROM, LLC
2023-2025

1. CROM, LLC v. J. Cumby Construction, Inc. Westfield Insurance Company (Bledsoe County, TN). ***This matter is closed.*** In April 2022, CROM filed suit against General Contractor, J. Cumby and its surety for non-payment of the final retainage. CROM successfully completed the works, including six (6) tanks, per the contract documents. CROM's work has been fully accepted by the Owner, Bledsoe Correctional Complex in Pikeville, TN, and the General Contractor. However, J. Cumby is backcharging CROM for the site work not being prepared before CROM mobilized to begin construction of CROM's scope of work. The site work was a responsibility of J. Cumby and was specifically excluded from CROM's scope of work in the contract. Nonetheless, J. Cumby alleges its delays in completion of the site work were caused by CROM. In fall 2023, a confidential settlement was reached between the Parties.

2. CROM V. Foundation Professionals of Florida, Inc. (Columbia County, Florida) ***This matter is closed.*** In 2022, CROM filed suit for breach of contract in order to collect payment from the Contractor, Foundation Professionals of Florida, Inc. ("Foundation Pros") for work that was performed pursuant to a signed contract and change orders. In 2021, CROM had issued a stop work order due to non-payment by Foundation Pros., to no avail. Now the matter has been filed and the parties are in settlement negotiations and ongoing litigation. The Parties reached a confidential settlement agreement in March 2024 in exchange for case dismissal.

3. BD Restoration, LLC v. CROM, LLC, The CROM CORPORATION OF AMERICA, et.al. (Raleigh, NC): ***This matter is ongoing.*** In January 2024, CROM's Subcontractor, BD Restorations, filed a lien and a complaint for its costs for BD Restorations failures in completing its scope of work. In summer 2023, a rainstorm damaged BD Restorations coatings to a parking garage, while BD Restoration was applying the coating in an active rainstorm. Then, BD Restorations failed to fix its damaged work; instead, filing a claim of lien and a lawsuit. CROM terminated BD Restorations and hired a substitute subcontractor who successfully completed the remediation and scope of work. The claim is removed to Florida for potential Arbitration.

4. CROM v. PL Consultants, LLC (Pinellas County, FL): ***This matter is closed.*** In January 2024, CROM filed a lawsuit against PL Consultants, a General Contractor in a VA Hospital project in Bay Pines, FL, for non-payment of CROM's retainage. PL Consultants informed the Owner that it paid all of its subcontractors, and the VA Hospital closed the project. CROM received judgement of default against PL Consultants in favor of CROM for the Contractor's failure to respond to the litigation and for failure to make payment in full to CROM. CROM has filed a complaint with Florida's DBPR against the Contractor for failure to make payment, lack of financial responsibility, and potential failure to maintain proper licensure.

5. CROM v. Williams Industrial Services & Liberty Mutual, et.al. (Jacksonville, FL): ***This matter is closed.*** In March 2024, CROM filed suit to collect its retainage from Williams the General Contractor and its surety. Williams previously filed for bankruptcy and closed its business, failing to pay CROM its retainage. CROM entered into a contract with the completion Contractor, hired by Wiliam's sureties. CROM received payment in full from the Replacement Contractor in 2025; and the matter is voluntarily dismissed without prejudice in October 2024.

REFERENCED ATTACHMENTS

CROM®

RESOLUTION OF THE MANAGERS
OF CROM, LLC & DBA CROM COATINGS AND RESTORATIONS, A DIVISION OF CROM, LLC
A FLORIDA LIMITED LIABILITY COMPANY

To: CITY OF COCONUT CREEK

I HEREBY CERTIFY that the following is a true and correct copy of a resolution adopted by unanimous written consent of the Managers of CROM, LLC, a limited liability company organized under the laws of the State of Florida, on the 19th day of March 2014, updated on April 14, 2025, and that the said resolution has been entered upon the regular minute book of this company and is in accordance with the operating agreement that is now in full force and effect:

> "RESOLVED THAT the following individuals are authorized to sign bid proposals and contracts for CROM, LLC and DBA Crom Coatings and Restorations, a division of CROM, LLC, as identified below; and further to include in such bid proposals that certificate of non-collusion required by law as the act and deed of such company, and for all inaccuracies of misstatements in such certificate this company shall be liable under the penalty of perjury."

I FURTHER CERTIFY that the names of the persons holding titles referred to in the foregoing resolution are as follows:

Name	Title	Signing Authority
Robert G. Oyenarte, PE	Chief Executive Officer	Bid Proposals & Contracts
Cristopher M. Baldwin	Chief Financial Officer & Treasurer	Bid Proposals & Contracts
Jeffrey A. Pomeroy	Senior Vice President & Assistant Secretary	Bid Proposals & Contracts
Joseph C. Swann, PE	Chief Operating Officer & Assistant Secretary	Bid Proposals & Contracts
Alexander D. Ciasca, PE	Senior Vice President & Assistant Secretary	Bid Proposals & Contracts
Samantha Tillman	Vice President & Assistant Secretary	Bid Proposals & Contracts
Brett F. Bohannon	Vice President & Assistant Secretary	Bid Proposals & Contracts
Richard Blake Roberts	Vice President & Assistant Secretary	Bid Proposals & Contracts
Joshua Reid Homes	Assistant Secretary	Bid Proposals & Contracts
Dale A. Shinskey	Assistant Secretary	Bid Proposals & Contracts
Cody A.H. Galloway	Assistant Secretary	Bid Proposals & Contracts
Kristina Elkins	Assistant Secretary	Bid Proposals & Contracts
Bruce Russell	Assistant Secretary	Bid Proposals & Contracts
Nicholas K. Martin	Assistant Secretary	Bid Proposals & Contracts
Daniel J. Haugland	Assistant Secretary	Bid Proposals & Contracts
Thomas J. Williams III	Assistant Secretary	Bid Proposals Only
Heather Smith	Assistant Secretary	Bid Proposals Only
Chad Smith	Assistant Secretary	Bid Proposals Only
Kathy S. Turben	Assistant Secretary	Bid Proposals Only
Myers A. Carpenter, PE	Assistant Secretary	Bid Proposals Only
Clifford J. Dykes	Assistant Secretary	Bid Proposals Only

By:_____
Robert G. Oyenarte, PE

Title: Chief Executive Officer
Date: April 15, 2024

May 16, 2024

CROM, LLC
Company ID#: 282235

E-Verify Memorandum of Understanding (Amendment)

Memo:

In reference to CROM, LLC Human Resources staffing and document signatory change.

As per a discussion between Tara Doyle Robinson and a representative of E-Verify on Thursday (3/11/21) at 9am, Human Resources (then Team Services) was informed that the original signatory on the Memo of Understanding could not be changed to reflect staffing and management changes within the department.

E-Verify instructed Human Resources (then Team Services) to create a short memo to explain that staffing changes had occurred. This document serves as an amendment to the original memo, dated 8/9/2022, to include staffing changes and updated job titles.

As of 5/15/2024, our Human Resources Department consists of the following team members:

Samantha Tillman- Vice President of Finance

Tedi Emery- Human Resources Manager

Maritza DeJesus- Human Resources Specialist

Tara Doyle Robinson- Staffing Administrator

Jaime Fuller- Benefits Administrator

Liyah Conley- Payroll Administrator

The current team understands and accepts that they are participating in E-Verify for Employment Verification. Let this memo serve as an agreement to the terms and conditions of the E-Verify program.

List of pertinent experience of key individuals

Clemente Pichardo
2019R072 Mills River, NC – City of Hendersonville WTF Basin Repairs and Coatings
2021R070 Monroe, NC – John Glenn WTP Treatment Basin Protective Coating
2022R062 Spring Hill, FL – Waterproofing Membrane System 2.0 MG Leachate Storage Tank
Wilberto Garcia
2023R050 Charleston, TN - Hiwassee Filters 1-4 Rehab and Improvements
2023R068 St. Croix (USVI) - Concrete Repairs and Coatings Two Below Grade Reservoirs
2021R041 Ockeechobee, FL - Tank Modifcations, Surface Prep, and Coatings Three Storage Tanks
Julio Gomez
2023R072 Palm Beach Gardens, FL - Coating Rehabilitation Five Concrete Clarifiers
2024R071 St. Croix - Concrete Repairs and Coatings Two Below Grade Reservoirs
2024R045 Brighton, FL - Surface Preperation and Coatings Three GST
Cesar Cornejo
2024R089 Stuart, FL - Repairs and Coatings 1.0 MG Tank
2023R077 Hobe Sound, FL - Repairs and Coatings Two Tanks
2024R045 Brighton, FL - Surface Prep and Coatings 750,000 Gallon Tank

QUALIFICATIONS

CROM®

CEO Message

Since its founding in the early 1950s, CROM has maintained a tradition of excellence. As such, we recruit, train, and retain the most accomplished professionals in our industry. From our engineers and administrators to our field and shop teams, our employees are committed to upholding our corporate values of Respect, Honesty, Team Unity, and Integrity. Our values-driven culture results in attention to detail, accountability, and a strong focus on quality attainment and safety performance.

CROM is committed to providing a safe and healthy workplace for all its employees. Our Safety Program has been developed to comply with all local, state, and federal health and safety laws, regulations, and standards, with particular emphasis on the Occupational Safety and Health Act of 1970 and the OSHAct requirements that apply to our construction operations.

To ensure all of our interests in safety are met, all our employees will be responsible for complying with all company safety policies and procedures, for using the prescribed personal protective equipment as required by management, and for the knowledge and implementation of the regulations and standards that are applicable on the projects on which they are working.

CROM has set a “zero-accidents” goal for the organization and our employees will help provide the means to achieve this goal through continued management emphasis on high levels of safety performance and training. Assuring we all work together to meet this goal helps protect CROM’s vital personal interest in the health and welfare of our employees, and in reducing factors that inhibit profitability and competitiveness.

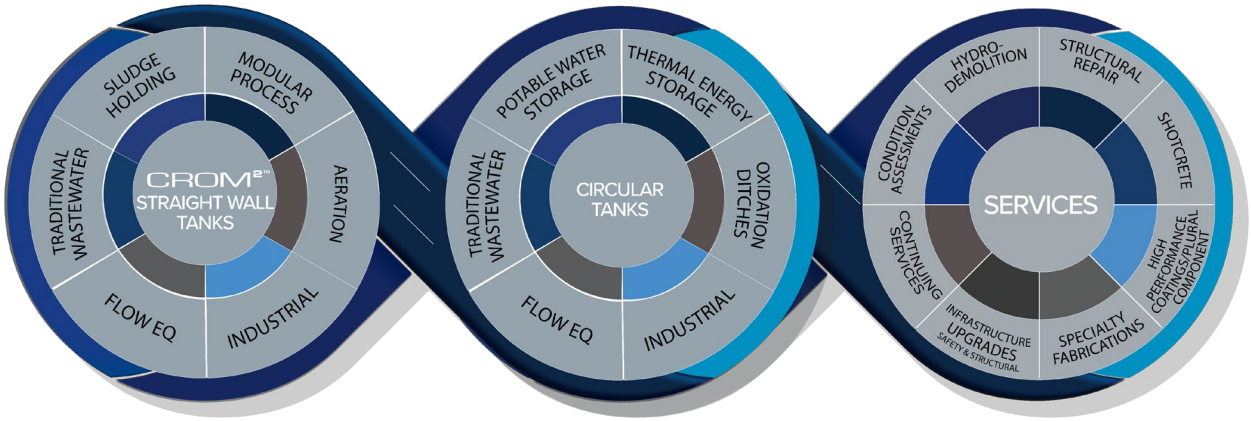
The future of CROM presents very exciting challenges as we move into ever-expanding markets. It is the people who make up our corporate tradition that will help us undertake these challenges and continue the tradition of excellence. Thank you for being a part of both CROM’s tradition and future.

Bobby Oyenarte
Chief Executive Officer
CROM, LLC

WHO WE ARE:

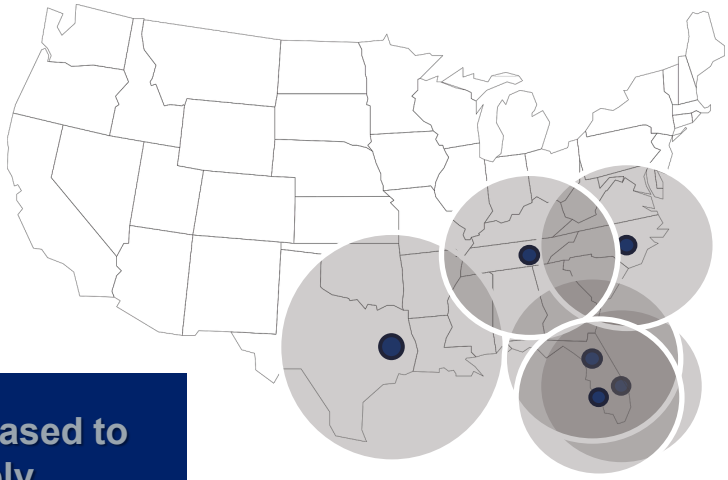
CROM is a water infrastructure solutions provider dedicated to the innovation, design, construction, restoration, and maintenance of the nation's essential infrastructure. Our portfolio of comprehensive solutions includes pre-stressed concrete tanks, CROM2 watertight tensioned straightwall tanks, and end-to-end restoration services for the nation's water and wastewater facilities. At CROM, we are committed to the safe delivery of high-quality, long-lasting water infrastructure that supports communities and industries, while fostering innovation and excellence in everything we do.

SOLUTIONS:



Building, Restoring, and Maintaining the Nation's Infrastructure since

1953.



Office locations are regionally based to operate efficiently and timely.

PORTFOLIO OF SERVICES

CROM®
WATER INFRASTRUCTURE SOLUTIONS

Condition Assessments

CROM provides inspections and cleanings to all infrastructure while also providing disinfecting services for public water infrastructure.

Structural Repair

CROM's design/build approach enables us to create and execute solutions to complex structural issues.

Certified High Performance Coating Inspectors & Applicators

CROM is a specialist in high performance coatings and plural component capabilities.

Infrastructure Upgrades

CROM is equipped with unparalleled experience, costum built equipment, and certified technicians to develop and implement the required upgrades.

Hydrodemolition

CROM utilizes state of the art equipment and robotics to minimize unnecessary damage to substrates while providing the best safety and ergonomic techniques for our technicians.

Shotcrete

Using our Certified Shotcreter's and custom built equipment, CROM is able to offer unique, high quality shotcrete application solutions.

Specialty Fabrications

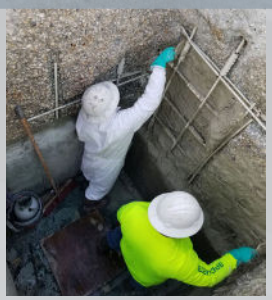
Our in-house engineering and skilled fabricators have been creating high quality custom solutions to meet our client's needs in the following materials: aluminum, stainless steel, carbon steel, fiberglass, precast concrete, and lumber.

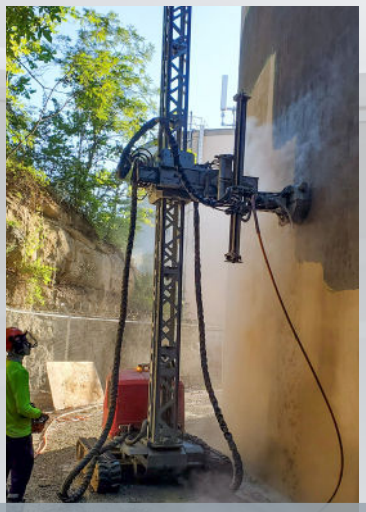
We also provide OSHA compliant safety modifications fabricated specifically to custom fit your existing infrastructure.

Continuing Services

Our team is able to analyze and recommend procedures for preventative and emergency needs for all structures associated with water and wastewater treatment facilities.

TANKS YOU KNOW





RESTORATIONS YOU NEED

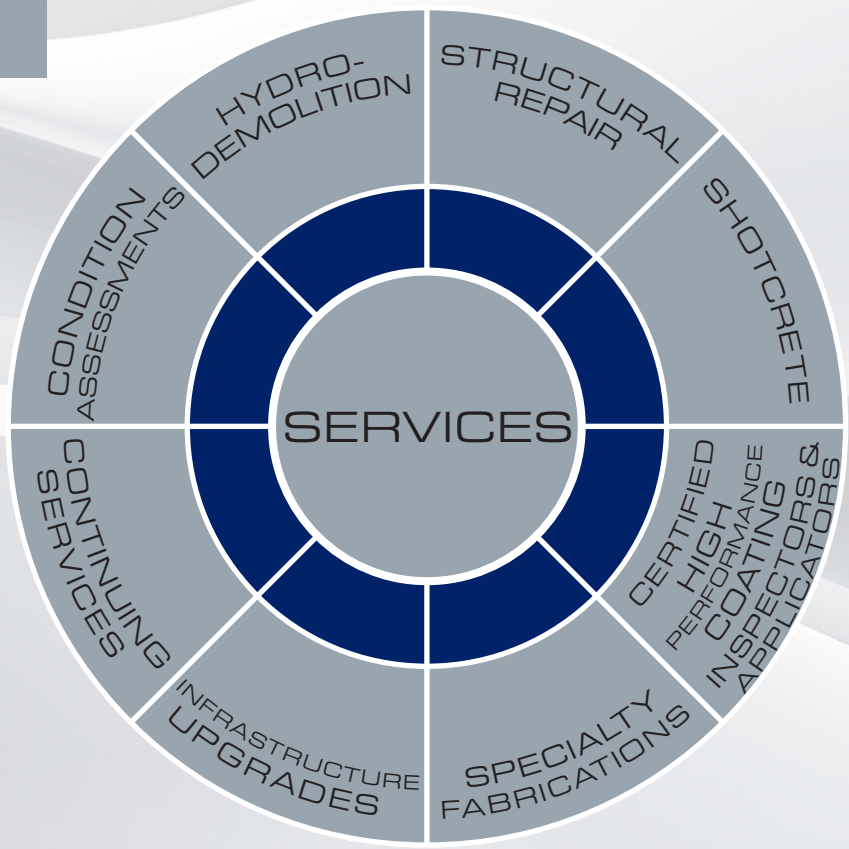
PORTFOLIO OF SERVICES

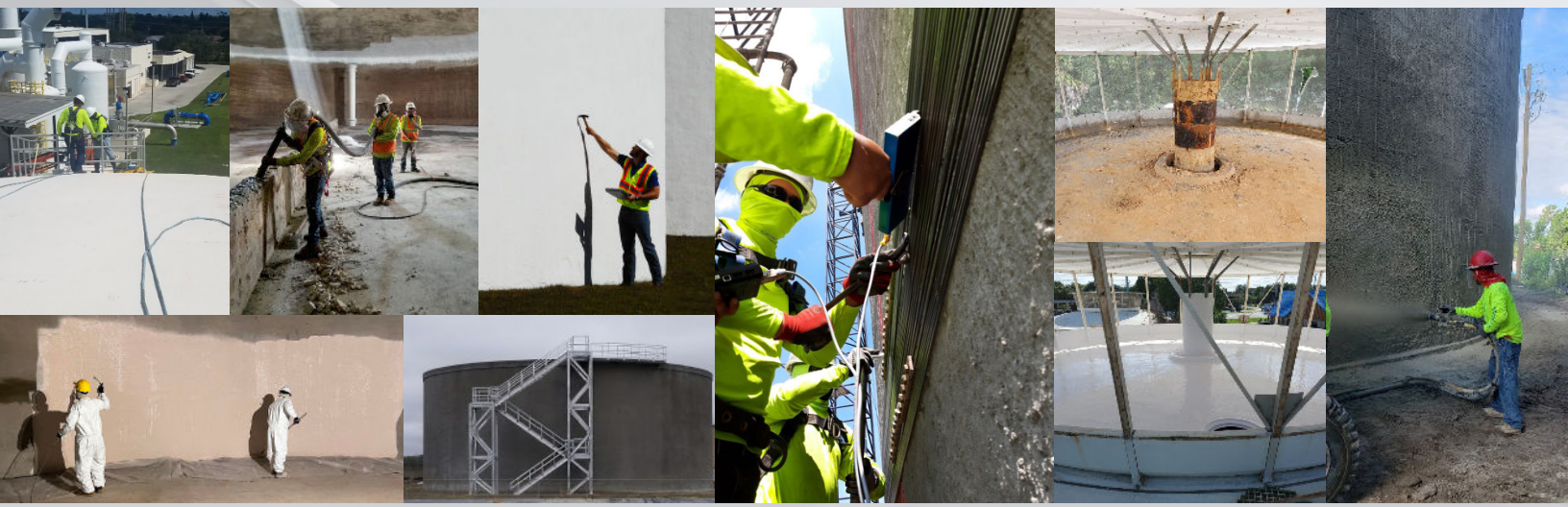
CROM®
WATER INFRASTRUCTURE SOLUTIONS

OFFERING TURN-KEY SOLUTIONS ACROSS MISSION-CRITICAL WATER APPLICATIONS AS AN INNOVATOR, DESIGNER, AND SERVICE PROVIDER.

WHY CHOOSE CROM?

- Trusted as a water infrastructure solution provider by a demonstrated track record of exceptionality, CROM is a one-of-a-kind operator in the water market.
- Established technological ingenuity in an industry that demands highly technical and adaptable solutions.
- Continually evolving and, with an increasingly stringent regulatory environment, requires subject-matter expertise.





LOCATIONS

GAINESVILLE, FL | HEADQUARTERS

AUSTIN, TX | CHATTANOOGA, TN | FT MYERS, FL | RALEIGH, NC | WEST PALM BEACH, FL

WWW.CROMCORP.COM

CROM®

WATER INFRASTRUCTURE SOLUTIONS

ONE OF 25 AMPP QP 8 ACCREDITED COMPANIES

AMPP™ QP 8 POLYMER COATINGS SSPC ACCREDITED CONTRACTOR

Recognized by the Association for Materials Protection and Performance (AMPP) as a QP 8 certified contractor.

Benefits of AMPP QP 8 Accreditation

Credibility & Trust

Companies with AMPP's QP 8 Accreditation are recognized for operating with higher quality standards in installation of polymer coatings and surfacing's on concrete and other cementitious surfaces.

Market Competitiveness

Overall AMPP QP 8 Accreditation is a prestigious certification that highlights an organizations commitment to the excellence in the application of high-performance spray coatings ensuring reliability and performance of their materials and processes.

Continuous Improvement

The accreditation process encourages continuous process improvement, best practice adoption, and staying up to date with industry advancements.

LOCATIONS

GAINESVILLE, FL | HEADQUARTERS

AUSTIN, TX | CHATTANOOGA, TN | FT MYERS, FL | RALEIGH, NC | WEST PALM BEACH, FL

WWW.CROMCORP.COM

CROM STANDARD OF EXCELLENCE

CROM is a specialty contractor focused on safely building and restoring essential infrastructure. As a leader in the Water and Wastewater Industry, we have maintained a noteworthy standard of excellence for nearly seven decades. Our culture of performance is built on a foundation of Core Values: Respect, Integrity, Honesty, and Team Unity, to ensure we make good things happen for our clients.

SPECIALTIES

Our Broad Scope of Expertise Includes:

- Design & Construction of Prestressed Concrete Tanks
- Concrete Removal and Surface Preparation
- Durability Inspections and Assessments
- Continuing Service Agreements
- Infrastructure Upgrades
- Shotcrete
- Specialty Fabrications
- Structural Solutions
- High Performance Coatings

PRESTRESSED CONCRETE TANKS

Designed and Constructed 4,900 Prestressed Concrete Tanks with 8 billion gallons of liquid contained over the past 70 Years including tanks for:

- Water/Wastewater Storage
- Oxidation/Aeration
- Fire Protection
- Thermal Energy Storage

CREDENTIALS

- 15 Licensed Professional Engineers on Staff including 1 PhD and 3 Structural Engineers
- 20 ACI Certified Nozzlemen - Trained Nozzlemen Have Attained ACI Cp-60 Shotcrete Nozzleman Certification
- Superintendents With an Average of Over 30 Years of Field Construction Experience
- Full Time Professional CAD Designers Educated in Architecture and CAD Design
- Professional Estimators Educated in Both Engineering and Construction Management

CERTIFICATIONS

CROM Team Members are Trained and Certified by the Following Governing Organizations:

- Association for Materials Protection & Performance (AMPP)
- American Concrete Institute (ACI)
- International Concrete Repair Institute (ICRI)
- American Shotcrete Association (ASA)

SAFETY & QA/QC

- 48 (100% of Project Managers and Superintendents) OSHA 30 Certified Members on Staff
- Dedicated In-House Safety & QA/QC Departments

TESTIMONIALS

"...Note of thanks to each and every one in your company...It was a great pleasure...I can honestly say that this was one of the best experiences working with a subcontractor that I have had in the last 25 years. Your team did everything they could do in safety to make sure that we had an accident free workplace and was always more than willing to accommodate me with any requests...it's very rare for me to see a company so organized and safety conscious as I have witnessed over the last several months..." - *Tony Wharton Smith*

"[working with CROM] was one of the best experiences I have had in my construction career...they could not have been more responsive or accommodating...From initial contact to actual site performance, the project went smoothly and efficiently. The project owner was extremely impressed." - *Pat Civil Works Contracting*

CROM®

WATER INFRASTRUCTURE SOLUTIONS

INNOVATE | DESIGN | BUILD | RESTORE | MAINTAIN

Record of Experience – Tanks Built by CROM within the last 10 Years in Florida

Project ID	City Name	State	Start Date	End Date	Capacity	Total Funded	Tank Type	Diameter	SWD	Roof Type	Project Owner	Contact
2023M023	Naples	FL	05/07/2024	10/25/2024	1.5	$990,355.00	Clarifier	112	21	Open	Ave Maria Utility Company, LLLP	Ralph Myers 813-361-9428 Ralph.Myers@jacobs.com
2023M021	Englewood	FL	08/26/2024	11/25/2024	0.966	$1,694,123.88	Thermal Energy	64	39	Dome	School Board of Sarasota County	Austin Pella 941-336-3116 apella@willissmith.com
2023M020	Naples	FL	05/23/2024	11/08/2024	1.621	$2,674,900.00	Thermal Energy	64	67	Dome	Collier County Facilities Management	Brian Filipek 239-561-4141 bfilipek@oakfl.com
2023M019	Leesburg	FL	05/28/2024	10/30/2024	1.15	$1,929,540.12	Ground Storage	70	40	Dome	City of Leesburg	Aaliyah Davis 352-728-9880 aaliya.davis@leesburgflorida.gov
2023M017	Keystone Heights	FL	03/25/2024	05/30/2024	0.592	$816,555.00	Wastewater	60	28	Dome	St Johns River Water Mgmt District	Rod Polizzi 954-961-7200 rodp@WestwindContracting.com
2023M014	Palm Bay	FL	12/05/2023	10/17/2024	0.514	$1,547,576.87	Ground Storage	50	35	Open	L3Harris Technologies, Inc.	Glenda Martin 321-586-7328 Glenda.Martin@L3Harris.com
2023M013	Deland	FL	05/23/2024	02/27/2025	0.575	$581,300.00	Clarifier	90	14	Open	City of Deland	Adam Bergdahl 407-402-5472 Abergdahl@whartonsmith.com
2023M013	Deland	FL	05/23/2024	02/27/2025	0.575	$581,300.00	Clarifier	90	14	Open	City of Deland	Adam Bergdahl 407-402-5472 Abergdahl@whartonsmith.com
2023M009	Nokomis	FL	02/19/2024	12/20/2024	2	$1,601,990.00	Potable	122	23	Dome	City of Venice	Cole Milliken 813-546-4324 colem@pkflorida.com
2023M006	Daytona	FL	12/11/2023	06/10/2024	4.668	$3,919,689.90	Thermal Energy	127	49	Dome	Embry-Riddle Aeronautical Univ	Jeremy Fitch 386-314-3316 jfitch@perry-mccall.com
2023M005	Westlake	FL	06/12/2023	09/08/2023	2	$2,950,549.81	Reclaimed	130	20	Dome	Seminole Improvement District	Scott Massey 561-790-1742 smassey@sidistrict.com
2023M002	St Petersburg	FL	08/16/2023	12/05/2023	0.086	$448,462.00	Sludge	60	17	Open	Pinellas County	Dylan Parker 813-465-9926 DylanP@pkflorida.com
2023M002	St Petersburg	FL	08/28/2023	11/28/2023	0.35	$671,038.00	Clarifier	60	17	Open	Pinellas County	Dylan Parker 813-465-9926 DylanP@pkflorida.com
2022M033	High Springs	FL	12/21/2023	02/22/2024	0.373	$632,820.00	Wastewater	62	17	Open	City of High Springs	Seth Simmons 386-361-5300 seth@sgscsi.com
2022M031	Miami	FL	01/08/2024	05/29/2024	5	$3,749,700.00	Clearwell	155	36	Dome	City of North Miami Beach	Mike Hernandez 813-539-1688 Mhernandez@pcl.com
2022M027	Homestead	FL	02/27/2023	06/02/2023	0.5	$1,638,600.00	Equalization	90	12	Dome	FPL Miami-Dade Clean Water Recovery Center	James Brewer 979-446-6965 brewerj@bv.com
2022M027	Homestead	FL	02/13/2023	05/20/2023	0.5	$1,638,600.00	Equalization	90	12	Dome	FPL Miami-Dade Clean Water Recovery Center	James Brewer 979-446-6965 brewerj@bv.com
2022M021	Davenport	FL	12/19/2022	08/20/2024	0.3	$486,000.00	Elongated	240	21	Open	City of Davenport	Cole Milliken 813-251-2438 ColeM@pkflorida.com
2022M021	Davenport	FL	11/21/2022	11/28/2023	2	$5,267,000.00	Elongated	240	21	Open	City of Davenport	Cole Milliken 813-251-2438 ColeM@pkflorida.com
2022M019	Starke	FL	05/01/2023	11/30/2023	2	$3,536,925.00	Elongated	198	68	Open	City of Starke	Jaime Velez 239-258-2291 jvelez@pwc-llc.com
2022M018	Panama City	FL	10/28/2024	12/21/2024	0.14	$416,077.00	Fire Protection	30	27	Dome	USACE Mobile District	Lance Nowacki 504-599-5982 lance.nowacki@healtheoninc.com
2022M017	Elkton	FL	04/06/2024	12/13/2024	0.575	$683,852.00	Sludge	70	20	Open	St Johns County	Dave Schoster 352-284-1863 dave.schoster@jacobs.com
2022M017	Elkton	FL	01/19/2024	01/21/2025	3.414	$1,441,532.00	Reject	154	24.6	Open	St Johns County	Dave Schoster 352-284-1863 dave.schoster@jacobs.com
2022M017	Elkton	FL	01/12/2024	12/13/2024	4.5	$2,616,898.50	Reclaimed	181	23.6	Dome	St Johns County	Dave Schoster 352-284-1863 dave.schoster@jacobs.com
2022M017	Elkton	FL	01/10/2024	01/22/2025	4.5	$2,141,898.50	Reclaimed	181	23.6	Dome	St Johns County	Dave Schoster 352-284-1863 dave.schoster@jacobs.com
2022M015	Ocala	FL	01/09/2023	09/06/2024	0.5	$548,508.72	Reclaimed	155	44	Open	Bay Laurel Center CDD	Curtis Matte 407-402-9923 cmatte@whartonsmith.com
2022M015	Ocala	FL	01/03/2023	04/20/2023	6.25	$3,186,591.28	Reclaimed	155	44	Open	Bay Laurel Center CDD	Curtis Matte 407-402-9923 cmatte@whartonsmith.com
2022M012	Lady Lake	FL	10/17/2022	02/17/2023	1	$1,453,199.00	Wastewater	106	16	Open	Town of Lady Lake	Jaime Velez 239-258-2291 jvelez@pwc-llc.com
2022M007	Lake Worth	FL	11/06/2023	05/02/2024	5	$2,589,600.00	Potable	178	28	Dome	Palm Beach County Water Utilities Department	Andres Munoz 239-284-9988 amunoz@pcconstruction.com
2021M031	Gulf Stream	FL	08/22/2022	11/03/2022	0.5	$612,187.00	Potable	65	24	Dome	Gulf Steam Golf Club	Glen Miller 561-389-7037 glen@miller-engineer.com
2021M029	Green Cove Springs	FL	06/28/2022	03/24/2023	0.53	$494,901.00	Ground Storage	62	23	Dome	Clay County Utility Authority	James McCullough 561-775-0009 James.Mccullough@r2tinc.com
2021M028	Babcock Ranch(Pun	FL	01/03/2023	03/17/2023	2	$1,347,847.00	Reject	105	31	Dome	Kitson & Partners Communities	Joshua Peterson 239-597-2165 x225 Jpeterson@MitchellStark.com
2021M025	Crestview	FL	10/11/2022	01/10/2023	0.25	$350,785.00	Aerobic Digester	60	14	Open	City of Crestview	Justin Hanson 904-751-7500 x127 justinh@sawcross.com
2021M025	Crestview	FL	09/12/2022	01/10/2023	0.25	$350,785.00	Aerobic Digester	60	14	Open	City of Crestview	Justin Hanson 904-751-7500 x127 justinh@sawcross.com
2021M024	Sarasota	FL	07/17/2023	10/06/2023	0.75	$695,207.89	Potable	66	30	Dome	Lakepark Estate LLC	Gage Vincent 863-209-1909 gvincent@vogelbldg.com
2021M023	Green Cove Springs	FL	01/11/2022	12/30/2022	2.5	$2,575,000.00	Elongated 243'-0" L x 101'-0" W	0	16	Open	Clay County Utility Authority	Mike Higginbotham 407-321-8410 mhigginbotham@whartonsmith.com
2021M016	St Johns	FL	04/18/2022	02/22/2023	2	$1,306,039.00	Ground Storage	100	32.1	Dome	JEA	David King kinggd@jea.com
2021M014	Haines City	FL	04/18/2022	07/25/2022	3	$1,614,400.00	Potable Water	124	37	Dome	Haines City	Andrea Henley-Pratt 863-421-9901 apratt@hainescity.com
2021M012	Wildwood	FL	10/18/2021	01/10/2022	1	$732,800.00	Potable Water	102.6	16.4	Dome	TheVillages Community Development Districts	T. Manning 407-877-8214 tmanning@garney.com
2021M006	Naples	FL	11/22/2021	01/21/2022	9.300 TON	$1,153,000.00	Thermal Energy Storage	64.4	44.9	Dome	Collier County Public Schools	Owen Ames Kimball 239-561-4141
2021M005	Wildwood	FL	05/24/2021	08/16/2021	1.5	$995,242.00	Potable Water	110	21.1	Dome	Gibson Place Utility Co., LLC	T. Manning 407-877-8214 tmanning@garney.com
2020-M-035	Naples	FL	04/05/2021	06/04/2021	0.36	$606,000.00	Thermal Energy Storage	45	31	Dome	The District School Board of Collier County	Marcel Manda 239-275-4240
2020-M-034	Brooksville	FL	05/10/2021	07/05/2021	0.75	$671,000.00	Sludge Storage	80	20	Open	BOC Hernando County Utilities Department	Joshua Hines jhines@whatonsmith.com
2020-M-032	Naples	FL	06/08/2021	08/14/2021	3,300 TON	$727,000.00	Thermal Energy Storage	42	38.2	Dome	The District School Board of Collier County	Angie Stafford 941-907-9099 astafford@halfacreco.com
2020-M-030	Cape Coral	FL	05/10/2021	08/30/2021	5	$3,475,000.00	Reuse/Reclaimed	160	33.4	Dome	City of Cape Coral	Tyler Wilburn 918-260-8874 twilburn@whartonsmith.com
2020-M-030	Cape Coral	FL	05/10/2021	08/30/2021	5	$3,475,000.00	Reuse/Reclaimed	160	33.4	Dome	City of Cape Coral	Tyler Wilburn 918-260-8874 twilburn@whartonsmith.com
2020-M-028	Pace	FL	04/26/2021	07/19/2021	2	$2,026,000.00	Reclaimed	100	34.1	Dome	Pace Water System, Inc.	Barry Atkinson 205-345-6631 batkinson@jandpconstruction.com
2020-M-027	Fleming Island	FL	02/22/2021	09/06/2021	1	$2,224,000.00	Elongated	197.11	100	Open	Clay County Utility Authority	Tyler Quidort 407-321-8410 envestimating@whartonsmith.com
2020-M-023	Wildwood	FL	03/01/2021	05/24/2021	1	$1,031,900.00	Potable Water	102.6	16.4	Dome	The Villages Community Development Districts	T. Manning 407-877-8214 tmanning@garney.com
2020-M-020	Naples	FL	10/19/2020	12/28/2020	0.54	$741,000.00	Thermal Energy Storage	50	38	Dome	The School District of Collier County	Gerald Parsons 239-271-3641 gparsons@gilbane.com
2020-M-018	Davenport	FL	12/21/2020	04/05/2021	4	$2,910,758.00	Reclaimed Ground Storage	145	32.6	Dome	Toho Water Authority	Curtis Matte 407-402-9923 cmatte@whartonsmith.com
2020-M-018	Davenport	FL	12/21/2020	04/05/2021	4	$2,910,758.00	Reclaimed Ground Storage	145	32.6	Dome	Toho Water Authority	Curtis Matte 407-402-9923 cmatte@whartonsmith.com
2020-M-014	Ponte Vedra	FL	10/05/2020	12/04/2020	0.5	$908,212.00	Reservoir	65	20.2	Dome	St, John's County BOCC	David Pyle 904-209-0148 dpyle@sjcfl.us
2020-M-008	Naples	FL	11/02/2020	02/26/2021	7.5	$4,637,800.00	Potable Water	180	39.5	Dome	Collier County Utilities	Collier County Utilities 239-252-5888 PublicUtilities@colliergov.net
2020-M-008	Naples	FL	11/23/2020	03/19/2021	7.5	$4,637,800.00	Wastewater Treatment	180	39.5	Dome	Collier County Utilities	Collier County Utilities 239-252-5888 PublicUtilities@colliergov.net
2020-M-006	City of Lake Wales	FL	08/17/2020	11/23/2020	0.1	$375,975.00	Potable Water	35	13.1	Dome	City of Lake Wales	Daniel Magro 407-352-7991 daniel.magro@acluseng.com
2019-M-031	Cooper City	FL	04/13/2020	06/19/2020	0.5	$569,700.00	Ground Storage	61	24.4	Open	City of Cooper City	Jeffrey Holst 561-818-3228 jeff@FLDrilling.com
2019-M-025	Fernandina Beach	FL	03/16/2020	06/19/2020	0.5	$758,119.00	Potable Water	75	16	Dome	City of Fenandina Beach- Florida Public Utilities	John Mandrick 904-310-3400
2019-M-020	Lake Wales	FL	02/03/2020	04/06/2020	0.4	$1,245,600.00	Potable Water	60	18.1	Dome	City of Lake Wales	Drew Buckner 863-678-4182 abuckner@cityoflakewales.com
2019-M-015	Naples	FL	05/27/2019	08/26/2019	0.8	$858,000.00	Thermal Energy Storage	54	47	Dome	District School Board of Collier County	Ryan Propp 239-340-1771
2019-M-014	Naples	FL	10/14/2019	04/03/2020	0.46	$663,500.00	Thermal Energy Storage	51.1	30	Dome	District School Board of Collier County	Shawn Brink 239-834-8562
2019-M-013	Miramar	FL	12/09/2019	02/24/2020	1.5	$933,000.00	Potable Water	80	40	Dome	City of Miramar	Greg Williams 561-748-5956 gwilliams@whartonsmith.com
2019-M-012	Green Cove Springs	FL	08/12/2019	10/28/2019	1.25	$776,552.00	Ground Storage	80	34.3	Open	City of Green Cove Springs	Kevin DiQuisto 904-751-7500 kevind@sawcross.com
2019-M-011	Orange Park	FL	10/21/2019	12/06/2019	0.7	$526,200.00	Clarifier	82	17.6	Open	Clay County Utility Authority	William B. Moore 904-714-6353
2019-M-007	Miramar	FL	09/30/2019	12/06/2019	0.9	$700,000.00	Wastewater Treatment	90	19	Dome	City of Miramar Utilities Department	James Contino 561-748-5956 x2308
2019-M-003	Apopka	FL	09/30/2019	02/24/2019	2.4	$1,450,000.00	Potable Water	110	34	Dome	Orange County Board of County Commissioners	Carol Hewitt 407-836-5598 Carol.Hewitt@ocfl.net
2018-M-029	Hollywood	FL	03/11/2019	06/13/2019	1.66	$1,105,000.00	Water Storage	85	37.9	Dome	Seminole Tribe of Florida Utilities Department	Orlando Rivera 561-719-6559
2018-M-028	Daytona Beach	FL	01/21/2019	03/22/2019	0.53	$1,007,500.00	Chilled Water	51.2	35	Dome	Daytona State College	Matthew Rodgers 386-506-3218 Matthew.Rogers@DaytonaState.edu
2018-M-026	Lakeland	FL	11/12/2018	03/01/2019	5	$1,289,703.29	Water Storage	160	33	Dome	City of Lakeland	David Bayhan, Jr. 863-834-6314
2018-M-023	Pompano Beach	FL	02/18/2019	06/10/2019	5	$2,499,500.00	Water Storage	168	30.3	Dome	Broward County	Elizabeth Fujikawa 561-868-6409 efujikawa@carollo.com
2018-M-019	Barefoot Bay WTP	FL	12/10/2018	02/18/2019	0.3	$1,004,200.00	Potable Water Storage	45	25.3	Dome	Brevard County Board of County Commissioners	Michael Davis 321-633-2095 mike.davis@brevardfl.gov
2018-M-017	Dania Beach	FL	10/21/2019	01/31/2020	2.5	$1,295,000.00	Ground Storage	125	27.3	Dome	Broward County Water and Wastewater Services	Greg Balicki 954-931-3250 gbalicki@broward.org
2018-M-012	Fort Lauderdale	FL	07/08/2019	09/09/2019	1.5	$896,000.00	Ground Storage	104	24	Dome	Broward County Board of Commissioners	Greg Balicki 954-931-3250 gbalicki@broward.org
2018-M-011	Naples	FL	08/13/2018	11/16/2018	0.78	$851,000.00	Chilled Water	55.82	43	Dome	Collier County Public Schools	Ellen J. Bisogno 239-225-5108 ebisogno@oakfl.com
2018-M-010	Naples	FL	07/16/2018	09/10/2018	0.78	$851,000.00	Chilled Water	55.82	43	Dome	Collier County School District	Ellen J. Bisogno 239-225-5108 ebisogno@oakfl.com
2018-M-009	Bunnell	FL	07/16/2018	08/17/2018	1	$557,400.00	Reject Storage	85	23.7	Open	Flagler County BOVV	George Saoud 678-336-5732 x119 george.saoud@r2tinc.com
2018-M-008	Weeki Watchee	FL	09/24/2018	01/28/2019	3	$1,259,000.00	Reuse/ Reclaimed	125	34.9	Dome	Hernando County Purchasing & Contracts	Paul Taylor 727-376-6831 ptaylor.deeb@yahoo.com
2018-M-006	Wildwood	FL	06/11/2018	08/20/2018	1.5	$878,400.00	Potable Water	125	16.4	Dome	South Sumter Utility Company, LLC	T. Manning 407-877-8214 tmanning@garney.com
2018-M-004	Winter Haven	FL	08/06/2018	10/01/2018	1	$813,000.00	Potable Water	80	28	Dome	Polk County	Terry Marvin 863-534-6789 terrymarvin@polk-county.net
2018-M-002	Naples	FL	05/14/2018	07/20/2018	0.42	$591,500.00	Chilled Water	42	41.8	Dome	Collier County School District	Tish Commer 941-907-9099 tcommer@haldacreco.com
2017-M-038	Santa Rosa Beach	FL	05/14/2018	08/20/2018	3	$1,225,000.00	Potable Water	160	20	Dome	Florida Community Services, Regional Utilities, Inc.	Dylan Laird 850-231-5114 dylan@regionalutilities.net
2017-M-037	Naples	FL	03/12/2018	05/14/2018	0.413	$545,000.00	Thermal Energy Storage	45	35.1	Dome	The District School Board of Collier County	Lous H. Sanchez 941-960-1378 L.Sanchez@theartecgroup.com
2017-M-033	Santa Rosa Beach	FL	01/08/2018	04/23/2018	4	$1,387,000.00	Reuse/Reclaimed	150	30.4	Dome	Florida Community Services, Regional Utilities, Inc.	Dylan Laird 850-231-5114 dylan@regionalutilities.net
2017-M-032	Perry	FL	07/26/2018	02/11/2019	1.17	$2,185,200.00	Elongated 227'-6" L x 44'-6" W	0	16	Open	City of Perry	Jeremy Miller 850-674-5730 jeremymillernfc@yahoo.com
2017-M-032	Perry	FL	07/26/2028	02/11/2019	0.18	$2,185,200.00	Clarifier	45	15.6	Open	City of Perry	Jeremy Miller 850-674-5730 jeremymillernfc@yahoo.com
2017-M-029	Bartow	FL	03/26/2018	06/04/2018	0.054	$930,000.00	GAC Backwash Storage	20	23	Dome	Polk County Utilities	Mario Chavez 863-298-4100 mariochavez@pok-county.net
2017-M-029	Bartow	FL	04/23/2018	07/12/2028	1	$930,000.00	Potable Water	90	21.1	Dome	Polk County Utilities	Mario Chavez 863-298-4100 mariochavez@pok-county.net
2017-M-028	Orlando	FL	03/26/2018	05/18/2018	0.25	$291,500.00	Fire Protection	55	14.1	Dome	Orange County Public Schools	Robert Stagliano 407-317-3700 x2025142 robert.stagliano@ocps.net
2017-M-027	Pensacola	FL	11/06/2017	03/09/2018	6	$2,423,000.00	Ground Storage	150	44	Dome	Emerald Coast Utilities Authority	Garry Crook 850-469-1970 garry@visionconstruction.com
2017-M-026	Orlando	FL	02/05/2018	03/19/2018	0.45	$259,000.00	WAS Storage	60	22	Open	City of Orlando	David Billingsley 407-246-2291 TeamC@cityoforlando.net

Project ID	City Name	State	Start Date	End Date	Capacity	Total Funded	Tank Type	Diameter	SWD	Roof Type	Project Owner	Contact
2017-M-025	Pensacola Beach	FL	10/09/2017	01/22/2018	2.5	$1,520,191.00	Reuse/Reclaimed	105	38.7	Dome	Emerald Coast Utilities Authority	Daniel Corliss 850-723-4239 daniel.corliss@ecua.fl.gov
2017-M-021	Green Cove Springs	FL	10/18/2017	06/08/2018	2.7	$3,324,000.00	Elongated	243	101	Open	Clay County Utility Authority	Darrell Damrow 941-213-2426 ddamrow@clayutility.org
2017-M-021	Green Cove Springs	FL	11/20/2017	02/05/2018	0.713	$3,324,000.00	Clarifier	90	17.2	Open	Clay County Utility Authority	Darrell Damrow 941-213-2426 ddamrow@clayutility.org
2017-M-021	Green Cove Springs	FL	02/05/2018	04/30/2018	0.713	$3,324,000.00	Clarifier	90	17.2	Open	Clay County Utility Authority	Darrell Damrow 941-213-2426 ddamrow@clayutility.org
2017-M-020	Pierson	FL	01/29/2018	03/12/2018	0.14	$228,000.00	Fire Protection	34.7	20	Dome	The School Board of Volusia County	Steve Melco 404-475-0800 smelco@welbro.com
2017-M-019	Kissimmee	FL	09/23/2017	03/02/2018	7.5	$3,921,500.00	Reuse/Reclaimed	170	44.2	Dome	Toho Water Authority	Matt Peterson 407-321-8410 mpeterson@whartonsmith.com
2017-M-019	Kissimmee	FL	09/23/2017	02/09/2018	7.5	$3,921,500.00	Reuse/Reclaimed	170	44.2	Dome	Toho Water Authority	Matt Peterson 407-321-8410 mpeterson@whartonsmith.com
2017-M-018	Deltona	FL	09/25/2017	03/01/2018	1	$1,794,250.00	Reuse/Reclaimed	85	23.7	Dome	City of Deltona Public Works Division	Rochelle Chambers 386-878-8955 rchambers@deltonafl.gov
2017-M-018	Deltona	FL	09/25/2017	03/01/2018	3	$1,794,250.00	Water Process	147.2	23.7	Dome	City of Deltona Public Works Division	Rochelle Chambers 386-878-8955 rchambers@deltonafl.gov
2017-M-017	Daytona Beach	FL	07/31/2017	10/28/2017	2.5	$950,000.00	Reuse/Reclaimed	130	25.2	Dome	The City of Daytona Beach	Joanne Flick 386-671-8080 flicki@codb.us
2017-M-014	Jacksonville	FL	07/17/2017	09/11/2017	0.83	$520,000.00	Storage Tank	80	22	Dome	JEA	Aaron Browning 904-854-7423 abrowning@petticoatschmitt.com
2017-M-012	Fleming Island	FL	07/17/2017	09/11/2017	0.45	$290,000.00	Clarifier	70	15.7	Open	Clay County Utility Authority	Adam Brang, Sr. 352-338-2073 a.brang@bbi-cm.com
2017-M-008	Perry	FL	08/14/2017	11/20/2017	6.61	$1,495,000.00	Clarifier	250	18	Open	Georgia-Pacific, LLC	Mike Alexakis 407-402-6134 malexakis@whartonsmith.com
2017-M-008	Perry	FL	08/14/2017	11/20/2017	6.61	$1,495,000.00	Clarifier	250	18	Open	Georgia-Pacific, LLC	Mike Alexakis 407-402-6134 malexakis@whartonsmith.com
2017-M-007	Naples	FL	03/20/2017	06/19/2017	0.56	$649,000.00	Thermal Energy Storage	42	54	Dome	The District School Board of Collier County	Rene Collins 239-593-3777 rcollins@gatesinc.com
2017-M-005	Ocala	FL	09/11/2017	12/04/2017	0.75	$489,358.00	Storage Tank	79.5	20.2	Dome	Marion County Utilities	Seth Simmons 386-361-5300 seth@sgscsi.com
2017-M-004	Naples	FL	03/27/2017	06/19/2017	0.7	$720,500.00	Thermal Energy Storage	50	47.7	Dome	The District School Board of Collier County	Rene Collins 239-593-3777 rcollins@gatesinc.com
2017-M-003	Tampa	FL	02/19/2018	05/21/2018	5.02	$1,335,000.00	Ground Storage Tank	150	38	Dome	Hillsborough County Board of Commissioners	Stacy White 813-272-7049 cassadyg@hillsboroughcounty.org
2017-M-003	Tampa	FL	11/20/2017	02/19/2018	5.02	$1,335,000.00	Ground Storage Tank	150	38	Dome	Hillsborough County Board of Commissioners	Stacy White 813-272-7049 cassadyg@hillsboroughcounty.org
2017-M-003	Tampa	FL	02/05/2018	05/07/2018	5.02	$1,335,000.00	Ground Storage Tank	150	38	Dome	Hillsborough County Board of Commissioners	Stacy White 813-272-7049 cassadyg@hillsboroughcounty.org
2017-M-003	Tampa	FL	11/6/2017	02/05/2018	5.02	$1,335,000.00	Ground Storage Tank	150	38	Dome	Hillsborough County Board of Commissioners	Stacy White 813-272-7049 cassadyg@hillsboroughcounty.org
2017-M-002	Santa Rosa Beach	FL	04/10/2017	06/12/2017	1.3	$1,160,000.00	Sequence Batch Reactors	95	24.5	Open	Regional Utilities, Inc.	Dave Marell 850-231-5114 dave@regionalutilities.net
2017-M-002	Santa Rosa Beach	FL	02/20/2017	06/09/2017	1.3	$413,000.00	Sequence Batch Reactors	95	24.5	Open	Regional Utilities, Inc.	Dave Marell 850-231-5114 dave@regionalutilities.net
2017-M-002	Santa Rosa Beach	FL	04/24/2017	05/19/2017	1.17	$613,751.00	Digester	90	24.5	Open	Regional Utilities, Inc.	Dave Marell 850-231-5114 dave@regionalutilities.net
2017-M-002	Santa Rosa Beach	FL	02/20/2017	05/29/2017	0.49	$613,751.00	Post EQ Tank	80	13	Open	Regional Utilities, Inc.	Dave Marell 850-231-5114 dave@regionalutilities.net
2016-M-034	Havana	FL	07/24/2017	09/04/2017	0.1	$275,000.00	Ground Storage	40	10.5	Dome	Town of Havana, FL	Mike Murhpy 850-763-9393 mike.murphy@mottmac.com
2016-M-029	Dunedin	FL	01/9/2017	04/3/2017	2	$749,000.00	Reclaimed Water Storage	95	37.8	Dome	City of Dunedin, FL	John French 561-845-1233 jfrench@floridadesigncontractors.com
2016-M-028	Umatilla	FL	10/31/2016	12/26/2016	0.2	$302,000.00	Ground Storage	50	13.7	Dome	City of Umatilla, FL	Glenn Irby 352-669-3125 girby@umatillafl.org
2016-M-026	Groveland	FL	11/14/2016	02/06/2017	1.51	$620,000.00	Reclaimed Water Storage	95	28.4	Dome	City of Groveland, FL	James Huish 352-429-0227 james.huish@graveland-fl.gov
2016-M-024	Fort Meyers	FL	03/20/2017	06/19/2017	0.6	$2,150,000.00	Clarifier	85	16.4	Open	Lee County Board of Commissioners	William Logan 239-938-9600 loganw@cdmsmith.com
2016-M-024	Fort Meyers	FL	02/13/2017	07/17/2017	0.6	$2,150,000.00	Clarifier	85	16.4	Open	Lee County Board of Commissioners	William Logan 239-938-9600 loganw@cdmsmith.com
2016-M-024	Fort Meyers	FL	02/13/2017	07/17/2017	0.6	$1,672,355.00	Clarifier	85	16.4	Open	Lee County Board of Commissioners	William Logan 239-938-9600 loganw@cdmsmith.com
2016-M-019	Palm Beach Garden	FL	01/09/2017	03/20/2017	2	$1,058,000.00	Ground Storage	141	17	Dome	Seacoast Utility Authority	Brandon Selle 561-627-2900 x347 bselle@sua.com
2016-M-019	Palm Beach Garden	FL	10/17/2016	12/16/2016	2	$0.00	Ground Storage	141	17	Dome	Seacoast Utility Authority	Brandon Selle 561-627-2900 x347 bselle@sua.com
2016-M-017	St Johns	FL	05/15/2017	08/14/2017	2.51	$0.00	Reclaimed Water Storage	150	19	Dome	Jacksonville Electric Authority	Leonard Carlton 813-425-1443 lrcarlton@pcl.com
2016-M-017	St Johns	FL	12/19/2016	03/20/2017	0.69	$763,316.00	Clarifier	85	16.3	Open	Jacksonville Electric Authority	Leonard Carlton 813-425-1443 lrcarlton@pcl.com
2016-M-017	St Johns	FL	03/20/2017	05/22/2017	0.69	$763,316.00	Clarifier	85	16.3	Open	Jacksonville Electric Authority	Leonard Carlton 813-425-1443 lrcarlton@pcl.com
2016-M-017	St Johns	FL	12/05/2016	05/12/2017	0.69	$763,316.00	Clarifier	85	16.3	Open	Jacksonville Electric Authority	Leonard Carlton 813-425-1443 lrcarlton@pcl.com
2016-M-016	Ponte Vedra	FL	09/05/2016	12/19/2016	2.4	$0.00	Reuse/Reclaimed Water	120	30	Dome	Jacksonville Electric Authority	Brad Davis 904-365-4332 bdavis@petticoatschmitt.com
2016-M-016	Ponte Vedra	FL	10/03/2016	02/20/2017	3.5	$0.00	Reuse/Reclaimed Water	135	33.1	Dome	Jacksonville Electric Authority	Brad Davis 904-365-4332 bdavis@petticoatschmitt.com
2016-M-015	Jacksonville	FL	01/02/2017	04/03/2017	1.83	$888,000.00	Tank	161	12	Dome	Jacksonville Electric Authority	Brad Davis 904-365-4332 bdavis@petticoatschmitt.com
2016-M-014	Palm Coast	FL	08/15/2016	11/21/2016	2	$0.00	Ground Storage	105	32.4	Dome	City of Palm Coast, FL	Brian Rothwell 386-986-3731 brothwell@palmcoastgov.com
2016-M-011	Orlando	FL	08/15/2016	03/31/2017	10	$4,815,625.00	Reuse/Reclaimed Water	191	47	Dome	Orange County Board of Commissioners	Ken Harrell 813-226-2406 kenneth.harrell@mwhglobal.com
2016-M-011	Orlando	FL	07/18/2016	09/19/2016	10	$4,815,625.00	Reuse/Reclaimed Water	191	47	Dome	Orange County Board of Commissioners	Ken Harrell 813-226-2406 kenneth.harrell@mwhglobal.com
2016-M-009	Auburndale	FL	07/25/2016	11/07/2016	2	$1,367,000.00	Reuse/Reclaimed Water	100	34.1	Dome	City of Auburndale, FL	John Dickson 863-965-5511 jdickson@auburndalefl.com
2016-M-006	Naples	FL	03/21/2016	06/06/2016	1	$594,800.00	Thermal Energy Storage	55.3	32	Dome	The District School Board of Collier County	Brian Saunders 239-594-1994 bsaunders@deagelisdiamond.com
2016-M-004	St. Augustine	FL	05/16/2016	07/25/2016	1	$523,000.00	Reuse/Reclaimed Water	80	26.7	Dome	St. Johns County Board of Commissioners	Dan Stoneberger 904-751-7500 dans@sawcross.com
2016-M-002	Naples	FL	10/31/2016	12/05/2016	1	$779,000.00	Thermal Energy Storage	64.3	40	Dome	The District School Board of Collier County	Ellen J. Bisogno 239-225-5108 ebisogno@oakfl.com
2016-M-001	Sarasota	FL	08/01/2016	10/10/2016	0.64	$853,100.00	Clarifier	80	17	Open	Sarasota County Board of Commissioners	David Blanchard 941-916-7265 dblanchard@pkflorida.com
2016-M-001	Sarasota	FL	06/13/2016	08/01/2016	0.64	$853,100.00	Clarifier	80	17	Open	Sarasota County Board of Commissioners	David Blanchard 941-916-7265 dblanchard@pkflorida.com
2015-M-045	Pensacola	FL	01/25/2016	04/11/2016	2	$780,600.00	Potable Water	95	37.8	Dome	Emerald Coast Utilities Authority	Tom Dawson Jr. 850-969-3341 tdawson.@ecua.org
2015-M-043	Sunrise	FL	08/22/2016	12/26/2016	5	$1,246,000.00	Reuse/Reclaimed Water	140	43.7	Dome	City of Sunrise, FL	Jin Sheng Huo 954-888-6079 utilitiesdirector@sunrisefl.gov
2015-M-041	Boynton Beach	FL	01/04/2016	03/21/2016	3	$1,059,625.00	Finished Water Storage	110	42.3	Dome	City of Boynton Beach, FL	William E. Johnson - 850-476-5110
2015-M-039	Winter Garden	FL	03/07/2016	05/16/2016	1	$1,274,410.00	Potable Water	95	18.8	Dome	City of Winter Garden, FL	Mike Bollhoefer 407-656-4111 mikeb@wintergarden-fl.gov
2015-M-033	Ponte Vedra Beach	FL	11/23/2015	02/15/2016	0.5	$517,000.00	Potable Water	75	16.2	Dome	Jacksonville Electric Authority	Kevin DiQuisto 904-751-7500 kevind@sawcross.com
2015-M-030	Sarasota	FL	12/19/2016	02/20/2017	0.2	$301,250.00	Reservoir	44.75	17	Dome	Camelot Communities MHP, LLC	Kurt W. Jensen kwj@jag-eng.com
2015-M-012	Fort Meade	FL	08/10/2015	04/18/2016	0.32	$8,289,085.00	Thermal Energy Storage	207.17	70	Dome	Duke Energy Florida, Inc.	Bryan Campbell 678-815-2746 bryan.l.campbell@amecfw.com

Record of Experience – Services performed by CROM within the last 10 Years in Florida

2025 CCR JOB NO.:	CITY, STATE / WTP NAME	SCOPE OF WORK	CONTACT PERSON
2025R037.00001	Clearwater, FL	ACTIVE LEAK REPAIRS CAST-IN-PLACE PUMP STATION	Ian Carter 727-249-2540 ian@ctcontraingservices.com
2025R032.00001	Florence, AL	DIVE INSPECTION TO LOCATE LEAK 1,880,000 GALLON CLEARWELL	Robert Pride 256-766-9430 robert@engineersofthesouth.com
2025R029.00001	Flagler Beach, FL	REPAIRS BASED ON INSPECTION REPORT 1,000,000 GALLON GROUND STORAGE TANK	Jim Ramer 386-276-0181 Jramer@CityofFlaglerBeach.com
2025R025.00001	Melbourne, FL	REPAIRS BASED ON INSPECTION 4,000,000-GALLON STORAGE TANK	Waylon Locklear - 321-288-7704
2025R024.00001	Melbourne, FL	REPAIRS BASED ON INSPECTION 1,000,000-GALLON STORAGE TANK	Waylon Locklear - 321-288-7704
2025R023.00001	Melbourne, FL	REPAIRS BASED ON INSPECTION 4,000,000-GALLON STORAGE TANK	Waylon Locklear - 321-288-7704
2025R022.00001	Melbourne , FL	REPAIRS BASED ON INSPECTION 2,000,000-GALLON CLEARWELL	Waylon Locklear - 321-288-7704
2025R021.00001	Melbourne, FL	REPAIRS BASED ON INPECTION 2,000,000 GALLON GROUND STORAGE TANK	Waylon Locklear - 321-288-7704
2025R020.00001	Satellite Beach, FL	REPAIRS BASED ON INPECTION 2,000,000 GALLON GROUND STORAGE TANK	Waylon Locklear - 321-288-7704
2025R016.00001	Marco Island, FL	LIQUID LEVEL INDICATOR REPAIRS 3,000,000-GALLON POTABLE WATER TANK	Sonia Izler - 239-398-9499
2025R015.00001	Gainesville, FL	ACCELERATED SCHEDULE FOR FULL HEADWORKS BYPASS PHASE 3 OF KANAPAHA HEADWORKS RESTORATION	Ian Brown 352-660-5338 ibrown@oelrichconstruction.com
2025R014.00001	Polk City, FL	PVC PIPE, SURFACE PREPERATION AND COATINGS 8-INCH PVC PIPE	Jake Close 863-634-3007 jake@closeconstructionllc.com
2025R013.00001	Marco Island, FL	LIQUID LEVEL INDICATOR REPAIRS 4,000,000-GALLON POTABLE WATER TANK	Sonia Izler - 239-398-9499
2025R011.00001	North Miami, FL	PUMP STATION MODIFICATIONS	Augustin Fleur-aime 786-543-5346 afleur-aime@northmiamifl.gov
2025R009.00001	Ruskin, FL	HURRICANE REPAIRS ON TWO- 6,000,000 GALLON, ONE- 4,000,000 GALLON PCTS, AND ONE STEEL TANK	Duggan Jacobs 727-278-4973 Djacobs@tscjacobs.com
2025R007.00001	Winter Haven, FL	LEVEL 2 DRY INSPECTION AND CLEANING 500,000-GALLON WATER STORAGE TANK	Damon Irvis - 863-514-5509
2025R006.00001	Parkland, FL	INTERIOR AND EXTERIOR TANK REPAIRS 1,500,000-GALLON STORAGE TANK	Jane Early - 561-723-5076
2025R005.00001	Cape Canaveral, FL	LEAK REPAIR & DESTRUCTIVE INVESTIGATION 1,000,000-GALLON REUSE TANK	Jessica Erdman - 321-868-1240
2025R004.00001	N Fort Myers, FL	VERTICAL CRACK REPAIRS (2) 5,000,000-GALLON GROUND STORAGE TANKS	Michael Frazzetto - (239) 533-8881
2024 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2024R092.00001	Labelle, FL	RESCREEN OVERFLOWS AND VENTS (1) 1,000,000-GALLON AND (1) 1,500,000-GALLON GROUND STORAGE TANKS	Juan Cardenas 863-247-1920 Jcardenas@woodardcurran.com
2024R091.00001	The Villages, FL	REPAIRS BASED ON INSPECTION REPORT & LEVEL 2 INSPECTION & CLEANING 1.0 MG GROUND STORAGE TANK	Josh Helton 352-461-3471 Josh.Helton@VikusWater.com
2024R090.00001	Leesburg, FL	CRACK INJECTION – CHLORINE CONTACT CHAMBER	Linden Sutherland - 407-321-8410
2024R089.00001	Stuart, FL	REPAIRS BASED ON INSPECTION REPORT 1,000,000-GALLON GROUND STORAGE TANK	Michael Woodside - 7472-288-5343
2024R088.00001	Lakeland, FL	OVERFLOW REPAIRS 1,500,000-GALLON EFFLUENT STORAGE TANK	Tanya Alexander 863-834-8272 tanya.alexander@lakelandgov.net
2024R087.00001	Orlando, FL	SPALL REPAIRS UNIVERSAL BRIDGE	Trevor Conley - 859-361-5332
2024R086.00001	Venice, FL	DOME CENTER VENT REPLACEMENT 1,500,000-GALLON GROUND STORAGE TANK	William Anderson 941-232-2594 wanderson@venicefl.gov
2024R084.00001	Spring Hill, FL	DESTRUCTIVE INVESTIGATION 2,000,000-GALLON LEACHATE STORAGE TANK	Tim Treshler 727-992-0032 ttreshler@pascocounty.net
2024R083.00001	St. Augustine, FL	DOME VENTILATOR REPLACEMENT 1,500,000-GALLON GROUND STORAGE TANK	Daniel Nowaczyk - 904-209-2787 dnowaczyk@sjcfl.us
2024R080.00001	Flowery Branch, GA	ANCHOR EMBEDMENT INSTALLATION 2,800,000-GALLON EQUALIZATION / REJECT WATER STORAGE TANK	Alex Gonzalez 470-312-6731 alexgonzalez@walshgroup.com
2024R075.00001	Palm Beach Gardens, FL	CONCRETE INSPECTION CLEARWELL	Brandon Selle561-627-2900bselle@sua.com
2024R074.00001	Margate, FL	Rescreen Vents and Overflows (Two 2MG GST)	Marta Reczko - (954) 972-6454
2024R071.00001	Palm Beach Gardens, FL	CONCRETE & METAL SURFACE PREPARTION & COATINGS HEADWORKS & AEROBIC DIGESTERS	Curtis Robinson - 772-834-5322
2024R069.00001	Palm Beach Gardens, FL	Repairs based on Inspection (1-MG GST)	Jessica Decker - 561-627-2900
2024R068.00001	Johnson City, TN	Level 2 Dry Inspection & Disinfection (5MG WST)	Benjamin Whitehead - 423-975-2669
2024R067.00001	Lake Panasoffkee, FL	Level 2 Dry Inspections and Cleanings (6-45K Fiberglass Tanks)	Heather Wilmoth - 719-761-9997
2024R066.00001	Fort Pierce, FL	SPOT REPAIR COATINGS DEGASSIFIER CLEARWELL	David Schuman - 954-818-5205
2024R065.00001	Eustis, FL	REPAIRS BASED ON INSPECTION 500,000 GALLON STORAGE TANK	Mark Raiford - 352-483-5475
2024R062.00001	Orlando, FL	BELOW GRADE EXTERIOR COATINGS	David Kovacs - 813-753-8361
2024R061.00001	Everglades City, FL	Active Leak Injection (Everglades Wastewater Treatment Facility)	Brock Southwick - (321) 247-5904
2024R058.00001	Johnson City, TN	INDIAN RIDGE EXTERIOR COATINGS 2,000,000 GALLON WATER STORAGE TANK	Jeff Corder - 423-483-5999
2024R056.00001	Jupiter, FL	Repairs based on inspection (1.5MG WST)	Chris McKenzie - 561-741-2605
2024R055.00001	Marco Island, FL	Replacement Fiberglass Manhole Cover; Fabricate and Install (500,000-Gallon GST)	Nigel Noone - 239-398-3999
2024R051.00001	Nokomis, FL	PIPE PENETRATIONS AND COATINGS LEACHATE STORAGE TANK	Tyler Bolton - 970-556-8643
2024R050.00001	Barefoot Bay, FL	(2) Wall Pipe Penetrations and (11) Floor Pad Installations .5MG GST	Chloe Hill - 850-543-7829
2024R046.00002	Fort Myers, FL	Launder Wall Boss Installation (2-.600,000 Gal Clarifiers)	Devon Leader - 225-200-8363
2024R046.00001	Fort Myers, FL	Launder Wall Boss Installation (2-.600,000 Gal Clarifiers)	Devon Leader - 225-200-8363
2024R045.00003	Okeechobee, FL	EXTERIOR SURFACE PREPARATION AND COATINGS (1) 0.75 MG, (1) 3.0 MG, AND (1) 4.0 MG STORAGE TANKS	Robert Benson - (561) 339-7747
2024R044.00002	Bay Harbor Islands, FL	Hydro Demolition Bridge Repairs	Fernando Sanchez fsanchez@lead-ec.com
2024R044.00001	Bay Harbor Islands, FL	Hydro Demolition Bridge Repairs	Fernando Sanchez fsanchez@lead-ec.com
2024R043.00002	North Port, FL	Exterior Tank Accessory Repairs and Refurbishment (various tanks)	Michael Drennan Jr. 941-455-7049 mdrennan@cityofnorthport.com
2024R042.00001	Melbourne, FL	LEVEL 2 INSPECTIONS AND CLEANINGS MULTIPLE GROUND STORAGE TANKS	Waylon Locklear - 321-288-7704
2024R041.00001	Palm Coast, FL	Baffle Curtain Replacement	Donald Holcomb 386-989-2344 dholcomb@palmcoastgov.com
2024R040.00001	North Miami, FL	Link Seal Replacement	Jose Escudero jescudero@bldmpr.com
2024R038.00001	Winter Haven, FL	RBOI Repairs 750,000-GALLON GST, 0.5 MG GST, 0.6 MG GST, 250,000-GALLON GST, 1.0 MG GST	David Nicholson 863-514-0438 dnicholson@mywinterhaven.com
2024R036.00001	North Ft Myers, FL	RBOI	Michael Frazzetto - (239) 533-8881
2024R034.00001	North Fort Myers, FL	Exterior Crack Repairs	Michael Frazzetto - (239) 533-8881
2024R029.00001	Apopka, FL	Level 2 Dry Inspection and Cleaning (100,000 Gallon GST)	Peter Harris - 321-300-7888
2024R028.00001	Melbourne, FL	ALUMINUM STAIRS, WALKWAYS, PLATFORMS & BRIDGE MULTIPLE STRUCTURES	Rachel Danos 321-972-9325 rdanos@L7constructs.com
2024R027.00001	Daytona Beach, FL	Crack Injection - Grit Structure	Adolfo Galvan - 407-347-9536
2024R026.00002	Naples, FL	Concrete Floor Repairs & Manhole Refurbishment (2) 6MG GST	Peter Schalt - 239-252-5343
2024R026.00001	Naples, FL	Concrete Floor Repairs & Manhole Refurbishment (2) 6MG GST	Peter Schalt - 239-252-5343
2024R025.00001	Fort Myers, FL	Underground Pipe Addition, Dome Probe Addition, Repairs Based on Inspection Report5MG GST	Ty Ewart - 239-270-5907
2024R024.00001	West Palm Beach, FL	Removal of baffle curtain from existing 5MG Tank	Frank Capoccetta 561-512-5076 fcapoccetta@pbcwater.com
2024R022.00001	North Miami Beach, FL	LLI Replacement and disinfection of newly installed equipment (2MG GST)	Jeffrey Holst - 561-818-3228
2024R020.00001	Belle Glade, FL	Emergency Order ICDs 4 CROM Tanks - Level 2 Dry Inspection and Cleaning	Frank Capoccetta 561-512-5076 fcapoccetta@pbcwater.com
2024R018.00001	Cocoa Beach, FL	Level II Inspection (0.1-MG Reclaimed Water Tank)	Clement Anson 920-889-3240 Clement.Anson@jacobs.com
2024R015.00001	Lake Worth, FL	RBOI 2.5MG GST System 2 Tank 15.0MG GST System 2 Tank 2	David Guerrero - 561-493-6180
2024R014.00001	Jupiter, FL	LVL 2 Inspection, Washout & Disinfection	Chris McKenzie - 561-741-2605
2024R013.00001	Palm Beach Gardens, FL	Interior Dome Repairs & Investigation1.0MG GST	Jessica Decker - 561-627-2900
2024R012.00001	North Lauderdale, FL	REMOVE EFFIS AND RECOAT TANK EXTERIORS TWO GROUND STORAGE TANKS	Neil Buckeridge 954-448-5244 nbuckeridge@nlauderdale.org
2024R011.00001	Gibsonton , FL	Level 2 Dry Inspection, Cleaning & Disinfection	Daniel Augusto - 813-539-5341
2024R007.00001	Volusia , FL	Aerator Rehabilitation (500,000 Gallon GST)	Michael Voorhees - 386-785-3225
2024R003.00001	Jupiter, FL	Installation of Fall Restraint Anchor Plates	Jason Pugsley - 561-352-4703
2024R001.00001	Jacksonville, FL	Inspection & LLI Repair	Britani McMurty 904-270-6761 tani.mcmurty@jacobs.com
2023 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2023R099.00001	Delray Beach, FL	Level 2 Dry Tank Inspection & Cleaning (1-1.0MG & 1-1.5MG ST)	Juan Guevarez - 561-243-7305
2023R097.00002	Stuart, FL	Repairs Based on Inspection 1MG Storage Tank	Michael Woodside 772-288-5343 x1 mwoodside@ci.stuart.fl.us
2023R097.00001	Stuart, FL	Repairs Based on Inspection 1MG Storage Tank	Michael Woodside 772-288-5343 x1 mwoodside@ci.stuart.fl.us
2023R095.00001	Port Charlotte, FL	Concrete Crack and Spall Repairs	Michael Nunez - 813-450-9246
2023R094.00001	Winter Haven, FL	RBOI 2.5MG Reuse Tank	Damon Irvis - 863-514-5509
2023R093.00001	Orange City, FL	RBOI 200,000 Reservoir	Chris Bailey - 386-960-3990
2023R087.00003	Bradenton, FL	Floor Pipe Addition and Cleaning Three 1.5MG storage Tanks (Elwood Booster Pump Station)	Chase Brackett - 407.920.2724
2023R087.00002	Bradenton, FL	Floor Pipe Addition and Cleaning Three 1.5MG storage Tanks (Elwood Booster Pump Station)	Chase Brackett - 407.920.2724
2023R087.00001	Bradenton, FL	Floor Pipe Addition and Cleaning Three 1.5MG storage Tanks (Elwood Booster Pump Station)	Chase Brackett - 407.920.2724
2023R085.00001	Palm Bay, FL	North Regional WTP 1.0MG Ground Storage Tank Rehabilitation	Tim Roberts 321-952-3410 tim.roberts@palmbayflorida.org
2023R083.00001	Tampa, FL	Fill Abandoned Pipe with Grout 30" Pipe, 125-Linear Feet Long	Kevin Sullivan - 407-877-5903
2023R080.00001	Tampa, FL	Exterior Wall Pipe Addition	Flint Seth - 813-964-2708
2023R077.00002	Hobe Sound, FL	EXTERIOR COATINGS AND REPAIRS ONE 1.25 MG GROUND STORAGE TANK ONE 1.0 MG GROUND STORAGE TANK	Kevin Carey - 772-631-3153
2023R073.00001	Tallahassee, FL	Manway Retrofit	Ed Gathercole 772-675-2102 egathercole@ferreirconstruction.com
2023R072.00003	Palm Beach Gardens, FL	COATING REHABILITATION FIVE CONCRETE CLARIFIERS	Curtis Robinson - 772-834-5322
2023R070.00001	Stuart, FL	LLI Repairs on 1MG & 5MG Storage Tanks	Geoff Schmidt 561-578-7715 GS@lawrenceleeconstruction.com
2023R069.00001	Port St Lucie, FL	RBOI	John Lamb 772-801-8576 jlamb@cityofpsl.com
2023R066.00001	Palm Coast, FL	750,000-GALLON GROUND STORAGE TANK REPAIRS BASED ON INSPECTION	Earl Nash 615-948-3046
2023R065.00001	Melbourne, FL	Wall Pipe Penetration (2.0-MG GST)	Austin Lafever 321-972-9325 austinlefever@l7constructs.com
2023R064.00001	St Petersburg, FL	Destructive Investigation	Patrick Linn 727-892-5687 patrick.linn@stpete.org
2023R062.00001	Coconut Creek, FL	2MG - RBOI	Robert McDonald 954-973-6786 rmcdonald@coconutcreek.net
2023R057.00001	Tequesta, FL	Destructive Investigation & Spall Repair	Juan Rivas 561-262-1044 jrivas@tequesta.org
2023R055.00001	North Miami, FL	Concrete Repairs	Joes Escudero 787-549-1290 jescudero@bldmpr.com
2023R053.00001	Port St Lucie, FL	RBOI	John Lamb 772-801-8576 jlamb@cityofpsl.com
2023R052.00002	Ocoee, FL	RBOIs of 2 Tanks (South Water Treatment Plant)	Mark Brownold - 407-905-3159
2023R052.00001	Ocoee, FL	RBOIs of 2 Tanks (South Water Treatment Plant)	Mark Brownold - 407-905-3159
2023R048.00001	Ruskin, FL	LLI Repairs	Austin Moore 813-854-2183 austin@tscjacobs.com
2023R046.00001	Christmas, FL	Post Tensioning repair on 5MG tank	John Perrin 321-446-4313 jperrin@cocoafl.gov

2023R044.00001	Punta Gorda, FL	Post Tension, Rescreen Overflows and Center Vent, LLI Repairs	Roger Johnson 941-769-1916 rjohnson@chwh2o.com
2023R042.00001	Fort Lauderdale, FL	Exterior Crack Repair	Cesar Alza - 954-828-7865
2023R041.00001	Fort Lauderdale, FL	Rubber Sponge Filler Replacement	Cesar Alza - 954-828-7865
2023R036.00001	Hollywood, FL	Exterior Carbon Fiber wall repair	Luis Montoya - 954-967-4230 x5405
2023R034.00001	Winter Haven, FL	Exterior Tank Coatings	David Nicholson 863-514-0438 dnicholson@mywinterhaven.com
2023R033.00001	Ocoee , FL	LEVEL 2 DRY TANK INSPECTION AND CLEANING - (2.0 MG GST)	Bruce Chiesa 407-353-3417 bchiesa@ci.ocoee.fl.us
2023R031.00001	Marco Island, FL	Repair 4 Tanks: (1) RWFP Influent Storage Tank & (3) .5MG GST	Sonia Iszler 239-389-3963 siszler@cityofmarcoisland.com
2023R030.00001	Marco Island, FL	Crack injection - NWTP (0.925MG)	Sonia Iszler 239-389-3963 siszler@cityofmarcoisland.com
2023R029.00001	Marco Island, FL	Rescreen center vent screen and overflows	Sonia Iszler 239-389-3963 siszler@cityofmarcoisland.com
2023R028.00001	Marco Island, FL	Replace Center Vent Screens (2 Tanks) 1MG and 2MG	Sonia Iszler 239-389-3963 siszler@cityofmarcoisland.com
2023R026.00001	CHIPLEY, FL	Link Seal Replacement	Eric Hawk 850-415-4116 eric.hawk@wphome.com
2023R025.00001	Clearwater, FL	New Stainless-Steel Manway Covers	Fred Hemerick - 727-224-7993
2023R023.00001	Orange City, FL	Aerator Repair / Refurbishment (1 MG GST)	Michael Voorhees - 386-785-3225
2023R022.00001	Cape Coral, FL	Destruction Investigation with repairs	Matt Astorino 239-242-3533 mastorin@capecoral.gov
2023R021.00001	Lake Mary, FL	Dome Probe Install for 2 Tanks	Tom Carter 941-628-1636 tomc@sawcross.com
2023R019.00001	St. Augustine, FL	Repair Perimeter Railing	Jeff Hatcher 904-209-2687 jhatcher@sjcfl.us
2023R012.00001	Miami Beach, FL	Dive Inspection & Crack Repair	Jorge Maldonado 305-673-7000 jorgemaldonado@miamibeachfl.gov
2023R011.00002	Palm City, FL	Tank RBOI - 1MG Reservoir (Tank 1)	Richard Stahl 561-578-7027 rs@lawrenceleeconstruction.com
2023R010.00001	Melbourne, FL	Wall Sleeve and Pipe Addition	Orlando Rivera - 561-845-1233
2023R007.00001	Winter Haven, FL	Level 2 inspection, cleaning, and disinfection	Steven Wonder 863-291-5767 swarder@mywinterhaven.com
2023R006.00001	Clearwater, FL	LLI and Hatch repair	David Black 727-507-4463 dblack@largo.com
2023R005.00001	Winter Haven, FL	Destructive investigation of interior wall	Brett Martin - 863-291-5766
2023R004.00001	Christmas, FL	CLARIFIER CHANNEL AND WEIR BOX REPAIRS1,275,000-GALLON LIME SOFTENING CLARIFIER	John Perrin 321-446-4313 jperrin@cocoafl.gov
2023R001.00001	The Villages, FL	REPAIRS BASED ON INSPECTION REPORT 500,000 - GALLON VCSA SAN MARINO GROUND STORAGE TANK	Winzer Lorissaint 352-753-4747 winzer.lorissaint@vikuswater.com
2022 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2022R080.00001	Deland, FL	LEVEL 2 DRY TANK INSPECTIONS AND MODIFICATIONS TWO 0.75 MG AND ONE 2.0 MG GROUND STORAGE TANKS	Mark Petracca 386-626-7176 petraccam@deland.org
2022R079.00001	Palm Bay, FL	REPAIRS BASED ON INSPECTION REPORT 500,000 GALLON GROUND STORAGE TANK	Chris Little 321-952-3410 x7387 christopher.little@palmbayflorida.com
2022R077.00001	Coral Springs, FL	Crack Repair CIP Headworks Structure	Rick Olson 954-647-9530 rolson@globaltechdb.com
2022R076.00001	Palm Beach Gardens, FL	COATING REHAB THREE CAST-IN-PLACE CONCRETE CLARIFIERS	Curtis Robinson 772-834-5322 curtis.robinson@holtzconsulting.com
2022R075.00001	Lakeland, FL	REPAIRS BASED ON INSPECTION REPORTS Two 1,500,000-GALLON EFFLUENT STORAGE TANKS	Matt Fowler 863-834-6180 matthew.fowler@lakelandgov.net
2022R073.00004	Plantation, FL	RBOI	Paul Safirulla - 561-275-2283
2022R072.00001	Coconut Creek, FL	Coconut Creek L2 Tank Inspection	Robert McDonald 954-973-6786 rmcdonald@coconutcreek.net
2022R070.00001	Palm Coast, FL	2 - Level 2 Inspections & Cleanings	David Ponitz 359-445-9045 dponitz@dunescdd.org
2022R069.00001	Wellington, FL	EXTERIOR REPAIRS BASED ON INSPECTIONS THREE GROUND STORAGE TANKS	Eliana Corie 561-602-2759 ecorie@whartonsmith.com
2022R065.00001	Fort Myers, FL	REPAIR CRACKS TWO 2,500,000 GALLON WATER STORAGE TANKS	Michael Frazzetto - (239) 533-8881
2022R062.00001	Spring Hill, FL	WATERPROOFING MEMBRANE SYSTEM 2,000,000-GALLON LEACHATE STORAGE TANK	Paul Petrey 813-695-4358 paul@applieddrillingengineering.com
2022R060.00001	Tampa, FL	Chlorine Contact Chamber, Center Clearwell, High Service Pump Station, Chloine Contact Basin Inlet	Jorge Farah 704-547-4839 jfarah@prim.com
2022R058.00001	SARASOTA, FL	VORTEX ROBOT TESTING FOR THREE TANKS	Loc Truong 813-800-8881 ltruong@ardurra.com
2022R055.00001	Vero Beach, FL	Spall repair	Rick meckes 772-226-3423 rmeckes@ircgov.com
2022R053.00002	Ft Myers, FL	Crack Injection	Nick Avoglia 239-203-9451 navoglia@whartonsmith.com
2022R051.00001	Calvert City, KY	DIVE INSPECTION & REPAIRS 1.5-MG GROUND STORAGE TANK & FILTER BUILDING CALVERT CITY, KENTUCKY	Silas Traylor straylor@calvertcity.com
2022R049.00001	Punta Gorda , FL	remove baffle curtains, install baffle curtains, Install LLI, disinfection	Brian Fuller 941-664-6193 bfuller@cityofpuntagordafl.com
2022R048.00001	Lakeland, FL	DRY TANK INSPECTION, CLEANING & DISINFECTION EXTERIOR COATING, AND REPAIRS BASED ON INSPECTION TWO - 5,000,000-GALLON GROUND STORAGE TANKS	Joe Costine 863-834-6750
2022R046.00001	Ormond Beach, FL	Install LLI Assembly with Board	Ron Burk 386-676-3368 ron.burk@ormondbeach.org
2022R043.00001	Cooper City, FL	COATINGS AND REPAIRS – EXTERIOR ONLY 2,000,000-GALLON STORAGE TANK	George Garba 954-434-5519 ggarba@coopercityfl.org
2022R042.00001	Calvert City , KY	Hydrodemolition	John Carter john@dkconstructioninc.com
2022R040.00001	Bay Pines, FL	REPAIRS AND COATINGS TWO 500,000-GALLON GROUND STORAGE TANKS	Lloyd Jernigan - 832-212-1620
2022R032.00001	Boca Raton , FL	4 manhole covers and coating	Ralph Cosme 561-275-2283 rosme@floridadesigncontractors.com
2022R029.00001	Apalachicola, FL	EXTERIOR REPAIRS AND COATINGS 600,000 GALLON RESERVOIR	Rhett Butler 850-653-5466 rhettb@cityofaplachicola.com
2022R028.00001	Naples, FL	Pipe Bracket Installation	Bill Avoglia 239-572-0152 bavoglia@michellstark.com
2022R024.00001	Lake Buena Vista , FL	exterior pressure wash, stripe coat, 2 coats 1026, overflow repairs, interior piping, interior clean, disinfection	Stephanie Herbert 407-448-2767
2022R022.00001	Winter Garden , FL	REPAIRS BASED ON INSPECTION REPORT 5,000,000-GALLON GROUND STORAGE TANK (NE)	Scott Ruland 407-312-6746 scott.ruland@waterconservii.com
2022R018.00001	spring hill, FL	Delaminated Coatings removal and recoat	Paul Petrey 813-695-4358 paul@applieddrillingengineering.com
2022R017.00001	Boca Raton, FL	REPLACE TWO MANHOLE COVERS AND REHAB FRAMES 900,000-GALLON DIGESTER	Ralph Cosme 561-275-2283 rosme@floridadesigncontractors.com
2022R016.00001	Lakeland, FL	CONCRETE CEILING AND SUPPORT BEAMS REHAB CAST IN PLACE CLEARWELL	Ernesto Gonzalez 813-288-0068 x4312 ecgonzalez@whartonsmith.com
2022R010.00003	The Villages, FL	COA, ICD, RPR, Interior Floor Crack Repairs, Interior Dome Crack Repairs, Bearstop Leak Repair	Erika Barrett 352-751-3904 erika.barrett@arnettnvironmental.com
2022R010.00002	The Villages, FL	COA, ICD, RPR, Interior Floor Crack Repairs, Interior Dome Crack Repairs, Bearstop Leak Repair	Erika Barrett 352-751-3904 erika.barrett@arnettnvironmental.com
2022R010.00001	The Villages, FL	COA, ICD, RPR, Interior Floor Crack Repairs, Interior Dome Crack Repairs, Bearstop Leak Repair	Erika Barrett 352-751-3904 erika.barrett@arnettnvironmental.com
2022R009.00001	Vero Beach, FL	(2) Pipe Additions and Disinfections:	John Elder 937-369-5866 jelder@tlcdiv.com
2022R008.00001	Oviedo , FL	LLI Repair Kit with Target	Jim Chapman 720-347-7209 james.chapman@kiewit.com
2022R006.00001	Cocoa Beach, FL	(5) Level 2 Inspections and Cleanings	Brad Kalsow 321-868-3308 bkalsow@cityofcocoabeach.com
2022R004.00001	Sebring, FL	EXTERIOR AND INTERIOR TANK REPAIRS 400,000-GALLON RESERVOIR	Hannah Lamon 727-252-4340 hannah@ctcontractingservices.com
2022R003.00001	Destin, FL	DOME HATCH COVER AND CENTER VENT REPLACEMENT 1,000,000-GALLON GROUND STORAGE TANK	Judd Mooso 850-337-3915 jmooso@dwuinc.com
2022R002.00001	Haines City , FL	DIGESTER TO EQUALIZATION TANK CONVERSION	Christian Spires 863-646-5078 cspires@vogelbldg.com
2021 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
19283000.00001	West Palm Beach, FL	Repairs and Modifications	Bob Lake561-239-7133rlakejr@westbrookecorp.com
19283000.00002	West Palm Beach, FL	Pipe Repair	Bob Lake561-239-7133rlakejr@westbrookecorp.com
20153000.00001	Jacksonville, FL	RBOI	Michael Hersey(904) 651-8875hersmt@jea.com
20210024.00001	Winter Haven, FL	Inspection, Cleaning and Disinfection	Steve Warder 863-298-5351swarder@mywinterhaven.com
20210048.00001	Orlando, FL	Repairs	Matthew Marinomatt@oelrichconstruction.com352-558-4085
20210062.00001	Mexico Beach, FL	Inspection	Kevin Martin850-247-3001k.martin@mexicobeachgov.com
20308000.00001	Orlando, FL	Dome Probe Installation	Kenneth Harrellkenneth.harrell@mwhglobal.com8132211981
20340000.00001	Winter Garden, FL	Dive Inspection Tank 1	Scot Rutland407-312-6746Scott.Rutland@waterconservii.com
20340000.00002	Winter Garden, FL	Dive Inspection Tank 2	Scot Rutland407-312-6746Scott.Rutland@waterconservii.com
20340000.00003	Winter Garden, FL	Dive Inspection Tank 3	Scot Rutland407-312-6746Scott.Rutland@waterconservii.com
20374000.00001	Jupiter, FL	CONCRETE REPAIRS AND COATINGS	Jason Pugsley561-401-4020jason.pugsley@lrecd.org
2021R002.00001	Lawtey, FL	Tank Repair	Rhonda Johnson(904) 805-0660rhonda@baldwinsplumbing.com
2021R002.00002	Lawtey, FL	Tank Repair	Rhonda Johnson(904) 805-0660rhonda@baldwinsplumbing.com
2021R003.00001	Sunrise, FL	Coatings	Gary Smith954-888-6075gsmith@sunrisefl.gov
2021R005.00001	St. Augustine, FL	Tank Retrofit	Travis Cassella904-696-9994trcassella@wisgrp.com
2021R008.00001	Ocoee, FL	Dive Inspections and Cleaning	Mr. Brownold407-509-2706mbrownold@ci.ocoee.fl.us
2021R009.0001A	Hobe Sound, FL	RBOI	Monica Shaner772-546-6259mshaner@tji.martin.fl.us
2021R009.0001B	Hobe Sound, FL	RBOI	Monica Shaner772-546-6259mshaner@tji.martin.fl.us
2021R010.00001	Palme Beach Gardens, FL	Rehab	Brent Weidenhamer 561-627-2900 bweidenhamer@sua.com
2021R013.00001	Orange City, FL	Baffle Curtain Install	Janet Appel386-775-5442jappel@ourorangecity.com
2021R016.00001	Punta Gorda, FL	Coatings	Julie Rogan-Sutter941-575-3350Jrogan-Sutter@CityofPuntaGordaFL.com
2021R016.00002	Punta Gorda, FL	Coatings	Julie Rogan-Sutter941-575-3350Jrogan-Sutter@CityofPuntaGordaFL.com
2021R019.00001	Orlando, FL	Modifications	Jerome Feliciano407-538-3599jerome.feliciano@cityoforlando.net
2021R030.00001	Sarasota, FL	Retrofit Mods	Bob Henning 954-551-4950 bob@giannetticorp.com
2020 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2020-R-001.01	Winter Garden, FL	RBOI - Concrete Repair and Coating	Scott Ruland407-656-2332 x228Scott.Ruland@waterconservii.com
2020-R-002.01	Wesley Chapel, FL	Joint & Spall Repair of Chlorine Contact Chamber	Andrew Decker863-255-8186Adecker@vogelbldg.com
2020-R-003.01	Broward Co, FL	Secondary Digester No. 1 (Southern Complex)	Jesse Fosterjessie@southlandpainting.com
2020-R-003.02	Broward Co, FL	Primary Digester No. 1 (Southern Complex)	Jesse Fosterjessie@southlandpainting.com
2020-R-003.03	Broward Co, FL	Primary Digester Tank No. 2 (Southern Complex)	Jesse Fosterjessie@southlandpainting.com
2020-R-003.04	Broward Co, FL	Primary Digester No. 5 (Northern Complex)	Jesse Fosterjessie@southlandpainting.com
2020-R-003.05	Broward Co, FL	UP Wall Crack Repair	Jesse Fosterjessie@southlandpainting.com
2020-R-005.01	Cape Coral, FL	Install Wall Pipe Sleeve	Aaron Basabeab@mesinc.us350-740-3303 ext 109
2020-R-005.02	Cape Coral, FL	Install Wall Pipe Sleeve	Aaron Basabeab@mesinc.us350-740-3303 ext 109
2020-R-005.03	Cape Coral, FL	Install Wall Pipe Sleeve	Aaron Basabeab@mesinc.us350-740-3303 ext 109
2020-R-006.01	Winter Haven, FL	Level 2 Inspection & Cleaning	Steven Warder863-291-5767swarder@mywinterhaven.com
2020-R-007.01	Deland, FL	RBOI	Mark Petracca386-626-7176petraccam@deland.org
2020-R-009.01	Jacksonville Beach, FL	2 Handrail Installations	Michael Taylor904-247-6278Mtaylor@jaxbchfl.net
2020-R-010.01	Dade City, FL	WWTP CIP Tank Repairs	Ray Hill352-588-2013ray@travelersrestresort.com

2020-R-011.01	Destin, FL	2.5 MG Exterior Tank Wall and Dome Pressure Washing and Recoating	Logan Law850-837-6146llaw@dwuinc.com
2020-R-011.02	Destin, FL	2.1 MG Exterior Tank Wall and Dome Pressure Washing and Recoating	Logan Law850-837-6146llaw@dwuinc.com
2020-R-011.03	Destin, FL	2.1 MG Exterior Tank Wall and Dome Pressure Washing and Recoating	Logan Law850-837-6146llaw@dwuinc.com
2020-R-012.01	Orlando, FL	Active Leak Crack Injection	Kurt Koepf216-298-0651kurt.koepf@stantec.com
2020-R-013.01	Coral Springs, FL	Polyurethane injection on tank influent piping and several small spots on tanks exterior.	Joe Stephens954-796-6665joes@csidfl.org
2020-R-014.01	Kissimmee, FL	Tank Modifications	Matt Peterson407-321-8410Mpeterson@whartonsmith.com
2020-R-014.02	Kissimmee, FL	Aerator Rehab	Matt Peterson407-321-8410Mpeterson@whartonsmith.com
2020-R-015.01	Titusville, FL	RBOI - 17S045	Matt Hixson321-567-3893matt.hixson@titusville.com
2020-R-017.01	Oviedo, FL	Misc Repairs	Andrew Lanphier407-321-8410Alanphier@whartonsmith.com
2020-R-017.02	Oviedo, FL	Misc Repairs	Andrew Lanphier407-321-8410Alanphier@whartonsmith.com
2020-R-017.03	Oviedo, FL	Misc Repairs	Andrew Lanphier407-321-8410Alanphier@whartonsmith.com
2020-R-018.01	Sunrise, FL	L1 Inspections	Natalia Garcia954-888-6020ngarcia@sunrisefl.gov
2020-R-019.01	Palm Coast, FL	Modifications	Dave Boss386-445-9045dboss@dunesscdd.org
2020-R-020.01	Orlando, FL	Reedy Creek RepairDome Pipe Penetration Installation	Tom Manning407-877-5903tmanning@garney.com
2020-R-022.01	Daytona Beach, FL	Crack Repair and Patcing	Brandon Lovelette802.734.0949 blovelette@pcconstruction.com
2020-R-023.01	Palm Beach Gardens, FL	Safety Mods and Coatings	Brandon Selle561-627-2900bselle@sua.com
2020-R-023.02	Palm Beach Gardens, FL	Safety Mods and Coatings	Brandon Selle561-627-2900bselle@sua.com
2020-R-023.03	Palm Beach Gardens, FL	ladder annodizing	Brandon Selle561-627-2900bselle@sua.com
2020-R-027.01	Jupiter, FL	2 Destructive Inspections and 1 Waterstop Investigation	Amanda Barnes561-741-2537amandab@jupiter.fl.us
2020-R-028.01	Clearwater, FL	Aluminum Perimeter Walkway	Eric Nashenash@pcl.com
2020-R-028.02	Clearwater, FL	Aluminum Perimeter Walkway	Eric Nashenash@pcl.com
2020-R-029.01	Gainesville, FL	Phase 2 Headworks: Area 1	John Hunnicutt john@oelrichconstruction.com352-745-7877
2020-R-029.02	Gainesville, FL	Phase 2 Headworks: Area 2	John Hunnicutt john@oelrichconstruction.com352-745-7877
2020-R-029.03	Gainesville, FL	Phase 2 Headworks: Area 3	John Hunnicutt john@oelrichconstruction.com352-745-7877
2020-R-030.01	Mayport, FL	2 Inspectins	Rich Theissrtheiss@ahenv.com
2020-R-032.01	Jacksonville, FL	Repair Tank Floor	Deborah Hopkins(904) 665-5208hopkdj@jea.com
2020-R-033.01	Marco Island, FL	LLI Repair	Darrell Williams239-825-5058
2020-R-034.01	Port Charlotte, FL	Repairs and Mods	Steve Kipfinger941-628-4373Stephen.Kipfinger@charlottecountyfl.gov
2020-R-035.01	Gainesville, FL	SS Slide Gate	Jerre Carr jcarr@oelrichconstruction.com352-745-7877
2020-R-036.01	Williston, FL	Repair	Seth Simmonsseth@sgscsi.com352-745-6950
2020-R-037.01	Inverness, FL	RBOI	Jeff Hines352-549-0226jhines@uswatercorp.net
2020-R-038.01	Live Oak, FL	Crack Repair	Hal Glover478-951-2620Hal.glover@jacobs.com
2020-R-039.01	Bokeelia, FL	Clean and Coat	Laurie Adams239.283.1071ladams@pineislandwater.com
2020-R-039.02	Bokeelia, FL	Destructive Investigatin and Covercoat Repair	Laurie Adams239.283.1071ladams@pineislandwater.com
2020-R-040.01	Orlando, FL	Repair and Coatings	G.Robert Dehler - "Bob"407-221-3409Gordon.Dehler@ucf.edu
2020-R-041.01	Cedar Key, FL	Tank Inspection	Robin E. Bainbain.engineering.llc@gmail.com 623.217.7202
2020-R-043.01	Peachtree City, GA	Clean, Inspect and Disinfect	Susan Laneslee@fayettecountyga.gov770-320-6087
2020-R-047.01	West Park, FL	Dome Probe, Clean and Disinfect	Thad BuckleyThad@RFESWater.com
2020-R-048.01	Cassleberry, FL	Two L2 Inspections	Zack Fieldszfields@primeconstructiongroup.com407-760-2771
2020-R-048.02	Cassleberry, FL	Destructive Investigation & Aerator Refurbish	Zack Fieldszfields@primeconstructiongroup.com407-760-2771
2020-R-049.01	Tampa, FL	Engineering Svc	Pavol PlecenikPplecenik@odysseymanufacturing.com(954) 632-4090
2020-R-051.01	Green Cove springs, FL	Crack Repair	James Langford678-423-7770jlangford@sesiteco.com
2020-R-052.01	Tampa, FL	Distructive Investigation	Rob ReinhartRReinhart@billerreinhart.com855-482-7655
2020-R-055.01	Daytona Beach, FL	Level 1 and Level 2 Inspeciton	Jack Cheney cheneyjack@codb.us386-671-8870
2020-R-056.01	Punta Gorda, FL	2 Overflow Replacements	Scott Rambo941-575-5023srambo@cityofpuntagordafl.com
2020-R-057.01	Daytona Beach, FL	Fabricate Pipes	Travis Tiltontravist@sawcross.com
2020-R-059.01	Jacksonville, FL	Dive Inspection & Cleanout and LLI Inspection & Repair	Scott Watsonsw@csi-contracting.com850-875-1471
2020-R-060.01	Ocala, FL	Walkway Rehab	Robert Andrewsrandrews@ocalafl.org352-629-8260
2020-R-63.01	Collier Co, FL	Two Tank Inspections	Nick Martinnick@fldrilling.com561-222-6823
2020-R-064.01	Lake Wells, FL	SURFACE PREP 7 COATING ABOVE GRADE DIP	Ron Dunhamdron1@tampabay.rr.com
2020-R-065.01	Bithlo, FL	Dive Inspection	Denis Muldoondmuldoon@uswatercorp.net352-633-9707
2020-R-066.01	Gibonston, FL	Tank Inspection and Disinfection	Johnathan ReillyJonathan.Reilly@amwater.com(813) 519-2511
2020-R-067.01	Orange City, FL	Tank Retrofit	Pavol PlecenikPplecenik@odysseymanufacturing.com(954) 632-4090
2020-R-069.01	Tampa, FL	RBOI	Pat TooleyPtooley@katinc.us727-834-8655
2020-R-072.01	Jupiter, FL	Coatings	Jason Pugsley561-401-4054jason.pugsley@Lrecd.com
2020-R-073.01	Orlando, FL	Pump Station B Rehab - CROM Tank	Lori Felicianolori.feliciano@disney.com321-512-7969
2020-R-073.02	Orlando, FL	Pump Station C Rehab - Steel Tank	Lori Felicianolori.feliciano@disney.com321-512-7969
2020-R-073.03	Orlando, FL	Pump Station C Rehab - CROM Tank	Lori Felicianolori.feliciano@disney.com321-512-7969
2020-R-076.01	Orange City, FL	Aerator Rehab	Cahli Masiarczyk386-831-9104cmasiarczyk@ourorangecity.com
2020-R-077.01	Clermont, FL	Inspection, Cleaning and Disinfection	Randy Corbin352-394-8898RWCorbin@comcast.net
2020-R-078.01	Orlando, FL	Chemical Resistant Coatings	Ashley Rose352-544-9182arose@msegroup.com
2020-R-079.01	Charlotte Co, FL	Crack Repair	Stephen Kipfinger941-883-3571stephen.kipfinger@charlottecountyfl.gov
2020-R-080.01	Marco Island, FL	LLI Repair	Sonia Iszler239-398-9499SIszler@cityofmarcoisland.com
2020-R-081.01	Marco Island, FL	LLI Repair on Two Tanks	Sonia Iszler239-398-9499SIszler@cityofmarcoisland.com
2020-R-082.01	Atlantis, FL	Baffle installation and Inspection	Steve Mazuk561-965-1744smazuk@atlantisfl.gov
2020-R-082.02	Atlantis, FL	Inspection	Steve Mazuk561-965-1744smazuk@atlantisfl.gov
2020-R-083.01	Fort Pierce, FL	Mult. Dive Inspections	Brian Pertuch610-585-2636Brian@spanishlakes.com
2020-R-084.01	North Miami Beach, FL	Baffle Curtain Repair	Veronica Llaneza 786-620-8805veronica.llaneza@jacobs.com
2020-R-085.01	Lehigh Acres, FL	NACE 3 Inspections	Mike Flagga813-220-6162mflaga@whartonsmith.com
2020-R-086.01	Fleming Island, FL	Repairs to Clarifier 2	John Dross904.382.2874john@pbmconstructors.com
2020-R-086.02	Orange Park, FL	Repairs to Clarifier 1	John Dross904.382.2874john@pbmconstructors.com
2020-R-087.01	DeLand, FL	2 Dry Tank Inspections	Mark Petracca386-626-7176petraccam@deland.org
2020-R-088.01	DeLand, FL	RBOI 18R024	Mark Petracca386-626-7176petraccam@deland.org
2020-R-092.01	Melbourne, FL	Clean, Inspect and Disinfect - 4MG	David Pharesdavid.phares@mlbfl.org
2020-R-092.02	Melbourne, FL	Clean, Inspect and Disinfect - 4MG	David Pharesdavid.phares@mlbfl.org
2020-R-092.03	Melbourne, FL	Clean, Inspect and Disinfect - 2MG	David Pharesdavid.phares@mlbfl.org
2020-R-092.04	Melbourne, FL	Clean, Inspect and Disinfect - 2MG	David Pharesdavid.phares@mlbfl.org
2020-R-092.05	Melbourne, FL	Clean, Inspect and Disinfect - 1MG	David Pharesdavid.phares@mlbfl.org
2020-R-092.06	Indian Harbor Beach, FL	Clean, Inspect and Disinfect - 2MG	David Pharesdavid.phares@mlbfl.org
2020-R-093.01	North Port, FL	Destructive investigation 2.5MG Precon	Chad Nosbisch941-240-8009cnosbisch@cityofnorthport.com
2020-R-094.01	Lake Worth Beach, FL	Joint Repair	Timothy Sloan561-586-1636tsloan@lakeworthbeachfl.gov
2020R095.00001	Oviedo, FL	Removal of Coatings and Recoat of Pipes	Curtis Mattecmatte@whartonsmith.com407-321-8410
2020-R-096.01	Jacksonville, FL	Destructibe Investigation of Dome and Baffle Wall	Michael Hersey904-665-7883hersmt@jea
2019 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2019-R-002.01	Sunrise, FL	Overflow Repair	Andrew HoganARHogan@pcl.com
2019-R-002.02	Sunrise, FL	Overflow Repair	Andrew HoganARHogan@pcl.com
2019-R-003.01	Ave Maria, FL	Inspect and Recoat	Tim Schlief239-825-1627
2019-R-004.01	Sanibel, FL	Donax WRF Process Improvements	239-472-3700
2019-R-004.02	Sanibel, FL	Donax WRF Process Improvements	239-472-3700
2019-R-004.03	Sanibel, FL	Donax WRF Process Improvements	239-472-3700
2019-R-006.01	Gainesville, FL	W3 PS Coatings	Curtis Matte407-402-9923
2019-R-007.01	Gainesville, FL	Clarifier Coatings	Curtis Matte407-402-9923
2019-R-007.02	Gainesville, FL	Clarifier Coatings	Curtis Matte407-402-9923
2019-R-009.01	Johnson City, TN	Dome Plug Repair and Coating	Jeff Corder423-975-2631jcorder@johnsoncity.org
2019-R-009.02	Johnson City, TN	Dome Plug Repair and Coating	Jeff Corder423-975-2631jcorder@johnsoncity.org
2019-R-011.01	Ft. Pierce, FL	Misc. Repairs and Coatings	Joshua Gangjgang@fpua.com
2019-R-012.01	Winter Garden, FL	RBOI 2010-S-027	Scott Ruland407-656-2332 Ext 228scott.ruland@waterconservii.com
2019-R-014.01	Winter Garden, FL	RBOI 2010-S-027	Scott Ruland407-656-2332 Ext 228scott.ruland@waterconservii.com
2019-R-016.01	Mt. Dora, FL	Pipe Brackets	Adam Brang407-464-7776 ex 189abrang@rfcenvironmental.com
2019-R-018.01	Jupiter, FL	Diaphragm Repair	Tony Campbelltony.campbell@lrecd.org561-747-5700
2019-R-019.01	Daytona Beach, FL	Baffle Curtain Repair	Marvin OwensOwensMarvin@codb.us
2019-R-021.01	Bonita Springs, FL	BSU WWRF RestorationGeneral Conditions, Mobs and Inspections	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.02	Bonita Springs, FL	BSU WWRF Restoration(N) Ox Ditch 2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.03	Bonita Springs, FL	BSU WWRF Restoration(X) Filter Facility	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.04	Bonita Springs, FL	BSU WWRF Restoration(Y) Filter Facility 1	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com

2019-R-021.05	Bonita Springs, FL	BSU WWRF Restoration(T) Chlorine Contact 1	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.06	Bonita Springs, FL	BSU WWRF Restoration(K) Clarifier 1	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.07	Bonita Springs, FL	BSU WWRF Restoration(M) Ox Ditch 1	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.08	Bonita Springs, FL	BSU WWRF Restoration(L) Clarifier 2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.09	Bonita Springs, FL	BSU WWRF Restoration(J) Clarifier 3	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.10	Bonita Springs, FL	BSU WWRF Restoration(Q) Headworks and Splitter Box Structures	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.11	Bonita Springs, FL	BSU WWRF Restoration(G) Master Lift Station	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.12	Bonita Springs, FL	BSU WWRF Restoration(HH) Plant Drain Pump Station	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.13	Bonita Springs, FL	BSU WWRF Restoration(II) Reject Pump Station	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.14	Bonita Springs, FL	BSU WWRF Restoration(II) Reject Pump Station	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.15	Bonita Springs, FL	BSU WWRF Restoration(I) Clarifier 4	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.16	Bonita Springs, FL	BSU WWRF RestorationDrop Panels for(N) Ox Ditch 1 and (N) Ox Ditch 2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.17	Bonita Springs, FL	BSU WWRF Restoration(SB-MN) Oxidation Ditch Splitter Box	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.18	Bonita Springs, FL	BSU WWRF Restoration(SB-MN) Oxidation Ditch Splitter Box	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.19	Bonita Springs, FL	BSU WWRF Restoration(O) Oxidation Ditch 3	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.20	Bonita Springs, FL	BSU WWRF Restoration(U) Chlorine Contact 2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.21	Bonita Springs, FL	BSU WWRF Restoration(SB-OP) Oxidation Ditch Splitter Box 2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.22	Bonita Springs, FL	BSU WWRF Restoration(JJ) Chemical Containment Sodium Peroxide	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.23	Bonita Springs, FL	BSU WWRF Restoration(W) Bleach Storage	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.24	Bonita Springs, FL	BSU WWRF Restoration(CC) Reuse Pump Station	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.25	Bonita Springs, FL	BSU WWRF Restoration(V) Bleach Generator	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.26	Bonita Springs, FL	BSU WWRF Restoration(P) Ox Ditch 4	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.27	Bonita Springs, FL	BSU WWRF Restoration(WLK-N) Walkway N - Clarifiers 3&4	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.28	Bonita Springs, FL	BSU WWRF Restoration(WLK-S) - Walkway S - Clarifiers 1&2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019-R-021.29	Bonita Springs, FL	BSU WWRF Restoration(WLK-S) - Walkway S - Clarifiers 1&2	Brandon Lawhern352-384-7005brandon.lawhern@jacobs.com
2019 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2019-R-024.01	Dunedin, FL	Misc Repairs, Coatings and Inspections	Heather Delao913-458-9630delaohm@bv.com
2019-R-024.02	Dunedin, FL	Misc Repairs, Coatings and Inspections	Heather Delao913-458-9630delaohm@bv.com
2019-R-024.03	Dunedin, FL	Misc Repairs, Coatings and Inspections	Heather Delao913-458-9630delaohm@bv.com
2019-R-024.04	Dunedin, FL	Misc Repairs, Coatings and Inspections	Heather Delao913-458-9630delaohm@bv.com
2019-R-024.05	Dunedin, FL	Aluminum Railing	Heather Delao913-458-9630delaohm@bv.com
2019-R-025.01	Jupiter, FL	(4) Tank Inspections	Bryan Heller772-233-5550bheller@tji.martin.fl.us
2019-R-027.01	Homestead, FL	Post Smolt Tank Repairs	Carlos Castellanos786-418-3740carlos.castellanos@ohlna.com
2019-R-028.01	Coral Springs, FL	RBOI	Connor King561-997-6433
2019-R-029.01	Gainesville, FL	Sodium Bisulfate Coatings	Sean WhiteSwhite@whartonsmith.combweaver@whartonsmith.com
2019-R-032.01	Winter Haven, FL	Mult Tank Inspections and Cleanings	Steven Warder863-291-5767863-295-5161swarder@mywinterhaven.com
2019-R-034.01	Ocala, FL	Tank Modifications	Regina Pozniak847-931-1950
2019-R-035.01	Boynton Beach, FL	Mult Tank RBOI	Phill Taylor561-742-6433
2019-R-035.02	Boynton Beach, FL	Mult Tank RBOI	Phill Taylor561-742-6433
2019-R-035.03	Boynton Beach, FL	Mult Tank RBOI	Phill Taylor561-742-6433
2019-R-035.04	Boynton Beach, FL	Mult Tank RBOI	Phill Taylor561-742-6433
2019-R-036.01	Orlando, FL	Conserv II Repair Bearstop Leak	Jaime BirminghamJamie.Birmingham@cityoforlando.net
2019-R-037.01	Melbourne Beach, FL	LLI Repair	Michael McCarty561-478-2025
2019-R-038.01	Sebring, FL	Level 1 Inspection	Clay Shrum863-655-1715
2019-R-039.01	Fort Myers, FL	Repairs and Coatings	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-039.02	Fort Myers, FL	Repairs and Coatings	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-039.03	Fort Myers, FL	Repairs and Coatings	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-040.01	Cape Coral, FL	LLI Repair	Ricard Jonesrjones@capecoral.net
2019-R-041.01	Wellington, FL	Clean & Inspect #3	Karla Berroteran-CastellonKberroteram@wellingtonfl.gov
2019-R-042.01	Wellington, FL	Clean & Inspect #4	Karla Berroteran-CastellonKberroteram@wellingtonfl.gov
2019-R-044.01	North Miami Beach, FL	LLI Repair	Michael Renolds813-505-7839
2019-R-046.01	Jacksonville, FL	Ext. Waterproofing & Cleaning	Jason Arnettjarnett@wisgrp.com904-696-9994
2019-R-046.02	Jacksonville, FL	Ext. Waterproofing & Cleaning	Jason Arnettjarnett@wisgrp.com904-696-9994
2019-R-046.03	Jacksonville, FL	Ext. Waterproofing & Cleaning	Jason Arnettjarnett@wisgrp.com904-696-9994
2019-R-046.04	Jacksonville, FL	Ext. Waterproofing & Cleaning	Jason Arnettjarnett@wisgrp.com904-696-9994
2019-R-046.05	Jacksonville, FL	Ext. Waterproofing & Cleaning	Jason Arnettjarnett@wisgrp.com904-696-9994
2019-R-047.01	Palatka, FL	Dome Hatch Repair	Kayla Wylie386-530-1058kwylie@palatka-fl.gov
2019-R-049.01	Gainesville, FL	Inspection and coatings	Sara Manansalasmanansala@ortegaindustrial.com
2019-R-051.01	Palmetto, FL	Tank Parapet Wall	Wade Woodringwwoodring@vogelbldg.com863-646-5078
2019-R-051.02	Palmetto, FL	EQ Tank Repair	Wade Woodringwwoodring@vogelbldg.com863-646-5078
2019R051.00003	Palmetto, FL	EQ Tank Repair	Wade Woodringwwoodring@vogelbldg.com863-646-5078
2019-R-052.01	Winter Haven, FL	Fairfax WTP - CIP Rehab	Judie Serode863-291-5664jserode@mywinterhaven.com
2019-R-054.01	Bonita Springs, FL	RBOI - Tery Street - Tank 1 (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.02	Bonita Springs, FL	RBOI - Tery Street - Tank 2 (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.03	Bonita Springs, FL	RBOI - Tery Street - Tank 3 (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.04	Bonita Springs, FL	RBOI - Coconut Road - Tank (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.05	Bonita Springs, FL	RBOI - Snell Lane - Tank (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.06	Bonita Springs, FL	RBOI - Waterfall - Tank (1MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.07	Bonita Springs, FL	RBOI - Winsdor - Tank (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.08	Bonita Springs, FL	RBOI - Waterfall - Tank (1MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.09	Bonita Springs, FL	RBOI - Winsdor - Tank (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
2019-R-054.10	Bonita Springs, FL	RBOI - Winsdor - Tank (2MG)	Andy KoebelAkoebel@bsu.us239-992-0711
219-R-055.01	Casselberry, FL	Install Fall Protection Tie Offs	James Farinajfarina@seminolecountyfl.gov407-665-2757
2019-R-057.01	Riviera Beach, FL	Center Vent Replacement	Stephen Fowler561-575-2005stephen.fowler@holtzconsulting.com
2019-R-059.01	Ocala, FL	Engineering Svc Only	Craig Schneiderman352-314-3625cshneiderman@carrandcollier.com
2019-R-060.01	Deland, FL	LLI Repair	Mark Petraccam@deland.org386-626-7176
2019-R-062.01	Delray Beach, FL	Misc Repairs	John Bullard561-243-7317BullardJ@myderaybeach.com
2019-R-063.01	Ft. Myers, FL	Central AWWTF Screen & Grit Removal Headworks Building	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.02	Ft. Myers, FL	South AWWTF Screen & Grit Removal Headworks Building	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.03	Ft. Myers, FL	Channels & Boxes Repairs and Protective Coatings	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.04	Ft. Myers, FL	Central AWWTF Screen & Grit Removal Headworks BuildingAdditional Repair	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.05	Ft. Myers, FL	South AWWTFInfluent Box Screw Pump Repairs	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.06	Ft. Myers, FL	South WWTPInterior & Exterior Repairs for 3 Construction Joints	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.07	Ft. Myers, FL	Central WWTPInfluent Box Screw Pump Repairs	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.08	Ft. Myers, FL	Central WWTPConcrete Clarifier Interior/Exterior Joints	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-063.09	Ft. Myers, FL	Central WWTPConcrete Clarifier Interior/Exterior Joints	Andrea Aliceaaalicea@whartonsmith.com813-288-0068
2019-R-065.01	Spring Hill, FL	Level 1 Inspection	Stuart Andersonstuart@applieddrillingengineering.com813-695-4358
2019-R-065.02	Spring Hill, FL	Inspect & Rehab	Stuart Andersonstuart@applieddrillingengineering.com813-695-4358
2019-R-065.05	Spring Hill, FL	Exterior Coatings	Stuart Andersonstuart@applieddrillingengineering.com813-695-4358
2019-R-066.01	Tampa, FL	Overflow Repairs	Joseph Rymer813-209-3076rymerj@hillsboroughcounty.org
2019-R-067.01	Wellington, FL	Clearwell 3 Repair	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-067.02	Wellington, FL	Clearwell 4 Repair	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-067.03	Wellington, FL	Softner Repair	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-067.04	Wellington, FL	Slaker Room Repair	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-067.05	Wellington, FL	Scrubber Degasifier Repair	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-067.06	Wellington, FL	Filter Bldg. Repair	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-067.07	Wellington, FL	Wall Crack Repair & Sound Testing	Tyler KalkaTkalka@weiss-construction.com239-270-5907941-525-3036
2019-R-068.01	Tampa, FL	Tank Dome Core Opening (2) 5MG Reclaim Water Storage Tanks	Tony Feria813-230-7856813-288-0068tferia@whartonsmith.com
2019-R-069.01	Fleming Island, FL	450,000 Gallon Clarifier No 4 Repairs	Brooke Wilkes904-714-6353brooke@pbmconstructors.com
2019-R-070.01	Vero Beach, FL	Repair and Clean	Jeff Howardjhoward@covb.org772-978-5235
2019-R-071.01	Riviera Beach, FL	Blast and Coat	Dave Schuman dschuman@globaltechdb.com
2019-R-071.02	Riviera Beach, FL	Sealant Application CO1	Dave Schuman dschuman@globaltechdb.com
2019-R-075.01	Vero Beach, FL	GST Repairs	Jeff Howardjhoward@covb.org772-978-5235
2019-R-078.01	Delray Beach, FL	Inspection, Cleaning and Disinfection	Jason Pugsley561-243-7451Jpugsley@baxterwoodman.com
2019-R-079.01	Vero Beach, FL	Washout, cleanout, disinfection, level 1 inspection	Jeff Howardjhoward@covb.org772-978-5235

2019-R-082.01	Jacksonville, FL	Misc. Dry Tank Inspections as needed between 10//19-9/30/2020(9 Drt Tank Inspections)	Michael Richardsonrichme@jea.com904-759-4540
2019-R-082.02	Jacksonville, FL	Misc. Dry Tank Inspections as needed between 10//19-9/30/2020(1 CIP)	Michael Richardsonrichme@jea.com904-759-4540
2019-R-083.01	Marco Island, FL	Repair existing LLI only on the exterior side.	Scott Henriksson239-825-5243Shenriksson@cityofmarcoisland.com
2019-R-086.01	Orange City, FL	Aerator Rehab and Coatings	386-775-5420
2019-R-086.02	Orange City, FL	Aerator Rehab and Coatings	386-775-5420
2019-R-087.01	Lake Worth, FL	Interior & Exterior Repairs to the 1.5 MG Tank	Troy Lyn561+-997-6433Tlyn@globaltech.com
2019-R-087.02	Lake Worth, FL	North Clearwell Repairs	Troy Lyn561+-997-6433Tlyn@globaltech.com
2019-R-087.03	Lake Worth, FL	Emergency Repair	Troy Lyn561+-997-6433Tlyn@globaltech.com
2019-R-088.01	Boca Raton, FL	2 Tank Inspections	Orlando Riveraorlandor@floridadesigncontractors.com561-275-2881
2019-R-088.02	Boca Raton, FL	Carbon Fiber Repair	Orlando Riveraorlandor@floridadesigncontractors.com561-275-2881
2019-R-089.01	Hialeah, FL	2 Tank Inspections	Ramon DiazRamon.diaz@inima.com305-970-3930
2019-R-090.01	Panama, FL	Bearstop Test & LLI Repair	Bobby GibbsOffice: 850-248-5029Cell: 850-814-8871
2019-R-091.01	Orlando, FL	UCF Aerator Rescreen	Gordon Dehler "Bob"407-221-3409Gordon.Dehler@ucf.edu
2019-R-092.01	Hollywood, FL	Crack and Hatch Repairs	Michael Bailey954-434-5519Mbailey@coopercityfl.org
2019-R-093.01	Jacksonville, FL	Repairs and Clean Pipes	David PrahPrahDJ@cdmsmith.com407-660-2552 x 16379356-689-4026
2018 CCR JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2018-R-003.01	Tampa, FL	Link Seal Replacement	Mark Erdly863-354-9010
2018-R-004.01	Jacksonville, FL	Destructive Investigation	Mike Hersey904-651-8875
2018-R-005.01	Gainesville, FL	Link Seal Replacement	Jared Howard352-231-9574
2018-R-006.01	Navarre Beach, FL	Repair Expansion Joint and Inject Active Leaks Expansion Joints	Roger Blaylock850-981-7100
2018-R-008.01	Sanford, FL	(1) Dry Tank Inspection	Richard Casella407-688-5095
2018-R-010.01	Green Cove Springs, FL	Coatings of 4 stel doors, 18 steel bollards and touch up of galvanized steel building	John Kaschak904-268-2181
2018-R-011.01	Winter Haven, FL	(2) Dry Tank Inspections and Cleanings	Terry Carver863-287-4251
2018-R-012.01	Ormond Beach, FL	Misc. Tank Repairs Based on Inspections - 5 Tanks	Mike Dunn386-795-3866
2018-R-013.01	Seminole County, FL	Misc Repairs Based on Inspection - Post Tensioning - Indian Hills	Mike Boggs407-665-2026
2018-R-014.01	Delray Beach, FL	LLI Repair & Hatch Cover Replacement	Steve Galera561-602-2535
2018-R-015.01	Winter Haven, FL	(1) Dry Tank Inspection	Steven Warder863-291-5767
2018-R-016.01	Coral Springs, FL	(2) Dry Inspections & Cleanings, (6) Dive Inspections and cleanings	Doug Hammann954-510-4700
2018-R-018.01	Pompano Beach, FL	Installation of Pipe Brackets and Concrete Supports for Exterior Fill Line	Phil Hyer954-545-7030
2018-R-021.01	Orange Park, FL	Rehab tank serator, repair exterior wall hollows, and exterior coating	Roger Rich904-673-5883
2018-R-023.01	Palm Beach County, FL	Safety Modifications	Diana Mira954-587-0520 x4733
2018-R-024.01	Deland, FL	(3) Dry Tank Inspections	Jim Ailes386-626-7250
2018-R-026.01	Stock Island, FL	(2) NACE Level 3 Quality Control Inspections	James Contino561-354-8786
2018-R-027.01	Key Colony Beach, FL	Wall Sleeve Additions	Eddie Ney772-370-9010
2018-R-028.01	Sunrise, FL	0.5 MG - Tank Cleaning & Repairs	Mike Hernandez561-748-5956
2018-R-028.02	Sunrise, FL	1.0 MG - Tank Cleaning & Repairs	Mike Hernandez561-748-5956
2018-R-028.03	Sunrise, FL	1MG & .5MG Tank Cleaning & RepairCO 4 & 5	Mike Hernandez561-748-5956
2018-R-029.01	Tampa, FL	(1) Dry Tank Inspection	Norrise Shellman813-539-5839
2018-R-030.01	Margate, FL	Leak Repair	Abidemi Ajayi 954-972-6454
2018-R-031.01	Jacksonville, FL	Nassau #1 0.5 MG - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-031.02	Jacksonville, FL	Nassau #2 0.3 MG - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-032.01	Fleming Island, FL	Fllor Grout Removal	Chris Trowell352-538-4231
2018-R-032.01	Fleming Island, FL	Grout Placement & Inpsection	Chris Trowell352-538-4231
2018-R-033.01	Tampa, FL	East Dry Tank Inspection	Norrise Shellman813-539-5839
2018-R-035.01	Orlando, FL	Leak Repair	Randall Ellington407-509-7613
2018-R-038.01	Eustis, FL	Access Hatch Repair	Jeff Brinson352-267-7352
2018-R-039.01	Titusville, FL	Kennedy Space Center Dry Tank Inspection	Ralph Kennedy321-863-6112
2018-R-041.01	Deland, FL	WTP 1 - Baffle Wall Waterproofing	Mark Petracca386-626-7176
2018-R-042.01	Deland, FL	WTP 3 - Baffle Wall Waterproofing	Mark Petracca386-626-7176
2018-R-043.01	Lake Worth, FL	Misc. Tank Repairs	Ed Palmowski561-997-5811
2018-R-044.01	Fort Pierce, FL	Repair & Coat	Keith Stephens772-466-1600
2018-R-045.01	Perry, FL	Leak Repair	Cory Hobbs334-379-3831
2018-R-046.01	Clermont, FL	Dome Band Concrete Repair	Randy Corbin352-394-8898
2018-R-047.01	Mayport, FL	Tank 1908 - Spot Cleaning & Spot Coating, Dinsfection & Bac T's	Karen Strange904-517-7140
2018-R-047.02	Mayport, FL	Tank 288 - Plug Open Pipe, Roof Hatch Hardware, Spot Cleaning & Spot Coating, Pipe Modification, Dinsfection & Bac T's	Karen Strange904-517-7140
2018-R-047.03	Mayport, FL	Tank X - Exterior painting, Interior painting, Disinfection & Bac T's	Karen Strange904-517-7140
2018-R-048.01	Orlando, FL	Universal Studios - Leak Repair	Vaughn Godet770-941-5100
2018-R-049.01	Wellington, FL	Aeration Basin #3 Repairs	Jake Hurley561-406-3049
2018-R-049.01	Wellington, FL	Aeration Basin #3 Repairs	Jake Hurley561-406-3049
2018-R-052.01	Collier County, FL	Misc Tank Repairs (7) Tanks	Alicia Abbott239-252-5344
2018-R-056.01	Tampa, FL	Destructive Investigation, Cleaning, & Waterstop Test/Repairs	Justin Kise813-625-9235
2018-R-057.01	Cocoa, FL	Reject Pond Concrete Structure Rehab	Paul Gilsdorf904-751-0888
2018-R-058.01	Belle Glade, FL	Link Seal Repair	David Guerrero dguerrero@pbcwater.com
2018-R-059.01	Orange City, FL	Tank No. 1 - Misc. Repairs & Coatings	Dave Santiago386-775-5440
2018-R-059.02	Orange City, FL	Tank No. 2 - Misc. Repairs & Coatings	Dave Santiago386-775-5440
2018-R-060.01	Port Richey, FL	Inspection, Cleaning, & Safety Modifications	Chris Reeves727-858-2452
2018-R-061.01	Naples, FL	LLI System	Matt Casey239-435-7200
2018-R-062.01	Orlando, FL	CIP Leak Repair	Jesse Meyer407-427-5571
2018-R-063.01	Belle Glade, FL	Tank Washout & Wall Pipe Installation	Dave Schuman561-997-6433
2018-R-064.01	South Bay, FL	Tank Washout & Wall Pipe Installation	Dave Schuman561-997-6433
2018-R-065.01	Gainesville, FL	Phase 1 - Headworks 1 & 2 - concrete repairs and coatings	John Hunnicutt352-745-7877
2018-R-065.02	Gainesville, FL	Phase 2 - Headworks 3 - concrete repairs and coatings	John Hunnicutt352-745-7877
2018-R-065.03	Gainesville, FL	Phase 3 - Headworks 4 - concrete repairs and coatings	John Hunnicutt352-745-7877
2018-R-065.04	Gainesville, FL	Phase 3 - Headworks 4 - concrete repairs and coatings	John Hunnicutt352-745-7877
2018-R-065.05	Gainesville, FL	Headworks Ext Coatings	John Hunnicutt352-745-7877
2018-R-067.01	Jacksonville, FL	Deerwood - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-067.02	Jacksonville, FL	Deerwood - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-068.01	Jacksonville, FL	Ridenour - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-068.02	Jacksonville, FL	Ridenour - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-069.01	Jacksonville, FL	Southeast - Aerator Upgrade	Mike Hersey904-651-8875
2018-R-070.01	Melbourne, FL	Lightning Strike - Dome Band Concrete Repair	Richard Burns(321) 255-4622
2018-R-071.01	Coral Springs, FL	1.0 MG Misc Repairs Based on Inspection	Connor King772-919-5732
2018-R-071.02	Coral Springs, FL	0.75 MG Misc Repairs Based on Inspection	Connor King772-919-5732
2018-R-072.01	Jacksonville, FL	Monterey - LLI and Center Vent Rescreen	Owen Cumisky904-545-5330
2018-R-073.01	Gainesville, FL	Pen Removal	Jodi Gilbert352-393-6512
2018-R-074.01	Sunrise, FL	(3) Level 1 Inspections	Natalia Garcia954-888-6022
2018-R-075.01	Bonita Springs, FL	Dive Inspection & Washout	Andy Koebel239-992-0711
2018-R-075.02	Bonita Springs, FL	Dive Inspection & Washout	Andy Koebel239-992-0711
2018-R-075.03	Bonita Springs, FL	Dive Inspection & Washout	Andy Koebel239-992-0711
2018-R-075.04	Bonita Springs, FL	Dry Inspection & Washout	Andy Koebel239-992-0711
2018-R-075.05	Bonita Springs, FL	Dry Inspection & Washout	Andy Koebel239-992-0711
2018-R-075.06	Bonita Springs, FL	Dry Inspection & Washout	Andy Koebel239-992-0711
2018-R-075.07	Bonita Springs, FL	Dry Inspection & Washout	Andy Koebel239-992-0711
2018-R-077.01	South Bay, FL	Link Seal Replacement	Dave Guerrero954-821-9512
2018-R-078.01	Boynton Beach, FL	5 Dive Inspect and Cleans	Phill Taylor561-742-6433
2018-R-080.01	Suwannee, FL	Dive Inspection	Keith Segar231-288-5171
2018-R-081.01	North Miami Beach, FL	Manhole Installation	Justin Randolph305-906-0694
2018-R-082.01	Gainesville, FL	Leak Injection	Elaine Tolon352-393-1612
2018-R-083.01	Boca Grande, FL	(5) Dive Cleanings and Inspections	Bonnie Pringle 941-964-2423
2018-R-084.01	Ocala, FL	Pool Deck	Jim Copley
2018-R-085.01	Palm Coast, FL	Active Leak Repair and Waterproofing	Aaron Gildea-Agildea904-751-0888
2018-R-086.01	St. Augustine, FL	Tank Rehab	Wade Gibbyghunderground@bellsouth.net904-339-4491
2018-R-087.01	Mexico Beach, FL	Emergency Inspection & Screen Replacement	Thomas Wilson850-247-3001t.wilson@mexicobeachgov.com
2018-R-088.01	Pembroke Pines, FL	(2) Spray Disinfections	Nick Martin561-222-6823
2018-R-090.01	Jacksonville, FL	(4) Dry Tank Cleanings & Inspections	Mike Richardson904-759-4540

2018-R-091.01	Jacksonville, FL	(1) Dive Cleaning & Inspection	Mike Richardson904-759-4540
2018-R-093.01	Deland, FL	Misc Repairs	Jim Ailes386-626-7250
2018-R-093.02	Deland, FL	Misc Repairs	Jim Ailes386-626-7250
2017 CECS JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2017-S-002.01	Haines City, FL	Aerator Restoration	Ronnie Simms863-660-2275
2017-S-002.02	Haines City, FL	Aerator Restoration	Ronnie Simms863-660-2275
2017-S-003.01	Immokalee, FL	Exterior CIP Resurfacing	Nick Martin561-222-6823
2017-S-004.01	Winter Haven, FL	(2) Dry Tank Inspections	Taylor Matheny407-744-2686
2017-S-006.01	Fort Meade, FL	Recoat Aerator Floor	David Townsend863-226-8498
2017-S-007.01	Lakeland, FL	Dry Tank Inspection	Jon Fox407-839-3955
2017-S-008.01	DeLand, FL	Aerator & Piping Rehab	John Stanberry 386-717-3198
2017-S-010.01	Winter Haven, FL	Dry Inspection, Cleaning & Disinfection	Steven Warder863-287-1618
2017-S-014.01	Plant City, FL	(3) Dry Tank Inspections	Darrin Laughlin813-267-5775
2017-S-015.01	Clermont, FL	Baffle Curtain Replacement & LLI Repair	Domenic Gentilucci407-948-9839
2017-S-016.01	Jacksonville, FL	Aerator Louver Panels - Hendricks WTP	Michael Richardson904-759-4540
2017-S-016.02	Jacksonville, FL	Aerator Louver Panels - Hendricks WTP	Michael Richardson904-759-4540
2017-S-017.01	Winter Park, FL	(1) Dry Tank Inspection	Samuel Cruz321-282-8811
2017-S-019.01	Titusville,FL	Interior and Exterior Destructive Inspection	David Marion321-567-3877
2017-S-022.01	Jacksonville, FL	Active Leak Crack Injection - Fairfax WTP	Kevin Diquisto904-751-7500 x14
2017-S-023.01	Fort Pierce, FL	Footer Leak Repair	Eric Wynne772-878-5513 x110
2017-S-024.01	Jacksonville, FL	(12) Dry Tank Inspections	Michael Richardson 904-665-7883
2017-S-026.01	Hillsborough Co, FL	Stairs- Bridge/Walkway Replacements	Cecil (Buster) Herline813-335-9527
2017-S-027.01	Christmas, FL	Crack Injection	Paul Gilsdorf904-365-4334
2017-S-028.01	Sebring, FL	Clean and Inspect	Clay Shrum863-655-1715
2017-S-029.01	Jacksonville, FL	Dive Inspection and Cleaning	Michael Richardson904-665-6819
2017-S-034.01	Miami Beach, FL	(4) Dive Inspections and Cleanings	Rudy Garcia 863-467-2610 x15159
2017-S-035.01	Sunrise, FL	(5) Level 1 Inspections	Ted petrides954-888-6035
2017-S-039.01	St. Cloud, FL	LLI Repair	James Reus407-401-4755
2017-S-041.01	Merritt Island, FL	Dive Inspection	Clayton McCormack321-482-2185
2017-S-043.01	Panama City, FL	Replace baffle wall with baffle curtain	Bobby Gibbs850-248-5029
2017-S-045.01	Titusville, FL	(3) Dry Inspections and Cleanings	Matt Hixson321-302-5387
2017-S-047.01	St. Petersburg, FL	30" Wallpipe Addition	Mathew Gilstrap904-357-4227
2017-S-048.01	Panama City, FL	Furnish and Install Liquid Level Indicator (LLI) Rebuild Kit	Bobby Gibbs850-248-5029
2017-S-049.01	Pinellas County FL	Safety Modifications to (8) Tanks	Steve Soltau727-453-6990
2017-S-050.01	Jacksonville, FL	Provide and install louvered panelsto existing aerator	Michael Richardson904-665-6819
2017-S-052.01	Walton Co., FL	Install (2) Under Floor Pipes	Dave Marell 850-699-0712
2017-S-055.01	Clearwater, FL	Seal floor/wall joint	Vincent C786-479-4540
2017-S-057.01	Orlando, FL	Leak Repair	Robert Lightsey407-321-8410
2017-R-001.01	Gainesville, FL	Coatings	Sara Manasala352-262-6803
2017-R-003.01	Palm Bay, FL	Tank Rehabilitation	Christopher Little321-508-2105
2017-R-004.01	Titusville, FL	Misc. Tank Repairs	David Marion321-567-3893
2017-R-005.01	Sanford, FL	Dry Tank Inspection	Richard Casella407-417-7733
2017-R-006.01	Ft. Pierce, FL	Leaking Crack & Spall Repairs	Dave Schuman561-997-6433
2017-R-006.02	Ft. Pierce, FL	Coatings on Gravity Thickener	Dave Schuman561-997-6433
2017-R-006.02	Ft. Pierce, FL	Coatings on Gravity Thickener	Dave Schuman561-997-6433
2017-R-007.01	Foley, FL	Dry Tank Inspection	James Slaughter850-584-1144
2017-R-007.02	Foley, FL	Dry Tank Inspection	James Slaughter850-584-1144
2017-R-009.01	Hillsborough County, FL	Refurbish Rack Arms In Clarifier No. 1 & 2	Chris Groo863-324-3882
2017-R-012.01	Wellington, FL	Aerator Replacement	Jake Hurley561-406-3049
2017-R-012.01	Wellington, FL	Aerator Replacement	Jake Hurley561-406-3049
2017-R-014.01	St. Augustine, FL	Crack Injection of a CIP Clarifier	Kevin DiQuisto352-214-9820
2017-R-014.02	St. Augustine, FL	Crack Injection of a Common Wall	Kevin DiQuisto352-214-9820
2017-R-015.01	Palm Beach County, FL	Baffle Curtain Replacement	Joshy Joseph561-997-6433
2017-R-016.01	Fort Pierce, FL	Install wall manhole and leak injection on filter units	Bo Hutchinson 772-466-1600
2017-R-018.01	Dade City, FL	(1) Dry Inspection and Disinfection	Jay Sheridan813-601-4039
2017-R-020.01	Apopka, FL	Submittals & Mobilization	Ted Dundas407-395-7538
2017-R-020.02	Apopka, FL	Inplant LS & Flow Meter	Ted Dundas407-395-7538
2017-R-020.03	Apopka, FL	Odor Control	Ted Dundas407-395-7538
2017-R-020.04	Apopka, FL	West Oxidation Basin	Ted Dundas407-395-7538
2017-R-020.05	Apopka, FL	West Plant Clarifiers 1 & 2	Ted Dundas407-395-7538
2017-R-020.06	Apopka, FL	West RAS/WAS PS	Ted Dundas407-395-7538
2017-R-020.07	Apopka, FL	West Plant Generator/MCC Bldg	Ted Dundas407-395-7538
2017-R-020.08	Apopka, FL	West Plant Blower/MCC Bldg	Ted Dundas407-395-7538
2017-R-020.09	Apopka, FL	West Plant Operations Bldg	Ted Dundas407-395-7538
2017-R-020.10	Apopka, FL	East Clarifier Splitter Box	Ted Dundas407-395-7538
2017-R-020.11	Apopka, FL	East Plant 2nd Clarifiers 3 & 4	Ted Dundas407-395-7538
2017-R-020.12	Apopka, FL	East Aeration/Anoxic Basin	Ted Dundas407-395-7538
2017-R-020.13	Apopka, FL	East Filters & Rapid Mix Basin	Ted Dundas407-395-7538
2017-R-020.14	Apopka, FL	East CCC & Transfer PS	Ted Dundas407-395-7538
2017-R-020.15	Apopka, FL	Reclaimed Water PS No. 2	Ted Dundas407-395-7538
2017-R-020.16	Apopka, FL	Hypochlorite Feed System	Ted Dundas407-395-7538
2017-R-020.17	Apopka, FL	East RAS/WAS PS	Ted Dundas407-395-7538
2017-R-020.18	Apopka, FL	East Aerobic Digesters	Ted Dundas407-395-7538
2017-R-020.19	Apopka, FL	Sludge Dewatering & Drying Fac	Ted Dundas407-395-7538
2017-R-020.20	Apopka, FL	Sludge Dryer Electrical Bldg	Ted Dundas407-395-7538
2017-R-020.21	Apopka, FL	East MCC Bldg	Ted Dundas407-395-7538
2017-R-020.22	Apopka, FL	East Generator/MCC Bldg	Ted Dundas407-395-7538
2017-R-020.23	Apopka, FL	East Compressor/MCC Bldg	Ted Dundas407-395-7538
2017-R-020.24	Apopka, FL	VE128 Pretreatment Structure	Ted Dundas407-395-7538
2017-R-020.25	Apopka, FL	VE128 East Plant EQ Basin	Ted Dundas407-395-7538
2017-R-020.26	Apopka, FL	VE128 New West Anoxic Basin	Ted Dundas407-395-7538
2017-R-020.27	Apopka, FL	Damproofing (East Plant Only)	Ted Dundas407-395-7538
2017-R-020.28	Apopka, FL	Caulking & Sealants	Ted Dundas407-395-7538
2017-R-020.29	Apopka, FL	Spall Repairs	Walker Petty407-395-7534ext 821
2017-R-021.01	Jacksonville, FL	Blacksford - Misc. Coatings	Pat Barthel813-68-1867
2017-R-022.01	Gainesville, FL	Cleaning, Inspection & Disinfection	John Gordon352-538-5843
2017-R-023.01	St. Augustine, FL	Coating Booster PS, above grade pipe, GST, and interior pipe	Seth Simmons352-745-6950
2017-R-024.01	Jacksonville, FL	Install Louvered Aerator Panels - Main St WTP	Michael Hersey904-651-8875
2017-R-025.01	Jacksonville, FL	Install Louvered Aerator Panels - Brierwood WTP	Michael Hersey904-651-8875
2017-R-026.01	Orlando, FL	Shotcrete Wave Wall	Jason Pickel407-601-3004
2017-R-027.01	Delray Beach, FL	(1) Tank Cleaning, Disinfection and Dry Inspection	Jason Pugsley561-352-4703
2017-R-028.01	Pinellas County, FL	(9) Dry Tank Inspections	Darrin Laughlin813-267-5775
2017-R-029.01	Fort Pierce, FL	Interior Coatings, Walkway, Platform, Stairs, and Trough/Weir - Clarifier 1	Dave Schuman561-997-6433
2017-R-029.02	Fort Pierce, FL	Interior Coatings, Walkway, Platform, Stairs, and Trough/Weir - Clarifier 2	Dave Schuman561-997-6433
2017-R-029.03	Fort Pierce, FL	Interior Coatings, Walkway, Platform, and Trough/Weir - Clarifier 3	Dave Schuman561-997-6433
2017-R-029.04	Fort Pierce, FL	Interior Coatings, Walkway, Platform, and Trough/Weir - Clarifier 3	Dave Schuman561-997-6433
2017-R-031.01	Jacksonville, FL	Destructive Inspection	Michael Hersey904-651-8875
2017-R-033.01	N. Miami Beach, FL	5.0 MG Center vent and Overflow repairs & Baffle Curtains replacements	Ralph Myers813-361-9428
2017-R-034.01	Okeechobee, FL	Interior Coating System	Rudy Garcia863-634-1705
2017-R-037.01	Lakeland, FL	Leak Repair	Brian Kraatz863-686-2320
2017-R-039.01	Port St. Lucie, FL	(2) Visual Ext. Inspections	Bruce Sloan772-871-7334
2017-R-040.01	Clearwater, FL	Pressure wash, inspect and assess tank floor	Royce Rarick727-453-6992
2017-R-042.01	Sanford, FL	Dry Tank Inspection	Richard Casella407-417-7733
2017-R-043.01	Sunrise, FL	Screen Replacements based on Inspections of (4) Tanks	Natalia Garcia954-888-6022
2017-R-044.01	Apopka, FL	Misc. Modifications	Ted Dundas407-395-7538

2017-R-046.01	Wellington, FL	Misc Repairs Based on Inspections - 4 Tanks	Karla Berroteran561-753-2465
2017-R-049.01	Dade City, FL	Exterior Paint and Pressure Wash, Overflow Screens, Vent Screens, Repair 3 Wall Hollows, and Furnish and Install Ladder Security Gate:	Joe Debono352-424-0248
2017-R-050.01	Jacksonville, FL	Active Leak Repair	Jason Pauche904-759-6882
2017-R-051.01	Pinellas County, FL	Fall Protection Tank Modifications	Wade Woodring813-783-9119
2017-R-051.01	Pinellas County, FL	Fall Protection Tank Modifications	Wade Woodring813-783-9119
2017-R-051.01	Pinellas County, FL	Fall Protection Tank Modifications	Wade Woodring813-783-9119
2017-R-053.01	Orlando, FL	Coat Lockheed Martin Taj-Mahal	Ashley Signorelli407-629-8180
2017-R-055.01	Daytona Beach, FL	Pipe Modifications	Orlando Rivera561-845-1233
2017-R-057.01	West Palm Beach, FL	Baffle Curtain Removal	Diana Mira954-587-0520 x4733
2017-R-058.01	Green Cove, FL	Mid Clay WWTF Upgrades	Vielka García 904-268-2181 x 201
2017-R-059.01	Wellington, FL	Headworks Repair	Jake Hurley561-406-3049
2017-R-060.01	Lauderhill, FL	Replace overflow screens and hatch cover repair	Yolanda Williams954-730-3044
2017-R-062.01	Howey-In-The-Hills, FL	Aerator Mods & Rehabilitation	Chris Creech352-669-5822
2017-R-063.01	Apopka, FL	Handrail Repair	Andrea Osinski407-836-6823
2017-R-065.01	Dunedin, FL	Dry Tank Inspection	Russell Ferlita727-298-3168
2017-R-066.01	Marco Island, FL	Misc. Repairs to 11 tanks	Sonia Iszler239-398-9499
2017-R-067.01	Jacksonville, FL	Sediment Depth Evaluation	Michael Richardson904-665-6819
2016 CECS JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2016-S-001.01	Flagler Beach, FL	(1) Dry Tank Inspection	Jim Ramer386-437-3776
2016-S-002.01	Marco Island, FL	Pipe Additions and Misc Tank Modifications	Orlando Rivera561-275-2281
2016-S-002.01	Marco Island, FL	Removing antivortex plate-Adds- Interior Wall Chipping & Patching - -Options / Lining Systems vs. Shocrete App.	Orlando Rivera561-275-2281
2016-S-004.01	Placida, FL	Dome Pipe Penetrations & Misc. Repairs	Pat Tooley727-445-7544
2016-S-005.01	Arcadia, FL	Misc. Tank Repairs and Coating	Tom Dobbs941-915-0733
2016-S-005.01	Arcadia, FL	Painting piping and equipment at Plant 2	Tom Dobbs941-915-0733
2016-S-005.01	Arcadia, FL	Repair rebar chair tips	Tom Dobbs941-915-0733
2016-S-005.02	Arcadia, FL	Plant 1 - Pressure wash, vandex cracks and tamoseal cementitious coating. Misc. cleaning and coating of other concrete structures.	Tom Dobbs941-915-0733
2016-S-008.01	Lakeland, FL	Clean, Disinfect, Coatings & Repairs	Ricky Jaynes863-327-7359
2016-S-009.01	Gulf Breeze, FL	Tank Floor Repairs	Ron Davis850-934-5100
2016-S-011.01	Jacksonville, FL	(2) Aerator Installations and Repairs	Kevin Diquisto904-751-7500 x14
2016-S-012.01	Winter Haven, FL	(1) Dry Tank Inspection & Cleaning - Fairfax WTP	Steven Warder863-287-1618
2016-S-014.01	Stuart, FL	Baffle Curtain Removal, Wash out and Disinfection	Ted Robbins772-223-7943
2016-S-015.01	Tampa, FL	(1) Dry Tank Inspection	Darrin Laughlin813-267-5775
2016-S-016.01	Charlotte County, FL	(2) Dry Tank Inspections	Stephen Kipfinger941-883-3571
2016-S-017.01	Melbourne, FL	Clean, Inspect & Disinfect - Pineda Booster Pump Station	David Phares321-255-4622
2016-S-017.02	Melbourne, FL	Clean, Inspect & Disinfect - N Booster Pump Station	David Phares321-255-4622
2016-S-017.03	Melbourne, FL	Clean, Inspect, Disinfect & T&M Repairs - Canova Pump Station	David Phares321-255-4622
2016-S-018.01	Davie, FL	Clean, Inspect & Disinfect - 2.0 MG	Raul Sotelo954-327-3748
2016-S-018.02	Davie, FL	Clean, Inspect & Disinfect - 0.2 MG	Raul Sotelo954-327-3748
2016-S-019.01	Haines City, FL	Mixer Opening - GST 1	Dana Hughes (941) 301-0747
2016-S-019.02	Haines City, FL	Mixer Opening - GST 2	Dana Hughes (941) 301-0747
2016-S-020.01	Levy County, FL	T&M Bridge Evaluation	Jay Blankenfeld352-867-1859
2016-S-021.01	Wellington, FL	Leak Repairs	Karla Berroteran(561) 791-4031
2016-S-022.01	Winter Haven, FL	Concrete Floor and Floor-wall Connection Repairs	Taylor Matheny407-744-2686
2016-S-023.01	Pompano Beach, FL	Safety Modifications	Phil Hyer 954-545-7030
2016-S-026.01	Pompano Beach, FL	Safety Modifications	Phil Hyer 954-545-7030
2016-S-028.01	Melbourne, FL	Addition of Equalization Basin Mixer Pedestals	Richard Schwarz904-219-1476
2016-S-028.02	Melbourne, FL	Carrousel Aeration Basin Floor Overlay and Concrete Spall Repairs	Richard Schwarz904-219-1476
2016-S-030.01	Cape Canveral, FL	Leak Investigation	Jeff Ratliff321-403-2137
2016-S-030.01	Cape Canveral, FL	Leak Investigation	Joyce Muse (321) 868-1240
2016-S-031.01	Ft. Pierce, FL	Dive Cleaning & Exterior Repairs	Scotty Beaulieu727-577-1855
2016-S-032.01	Davenport, FL	Concrete Repairs	Chris Groo863-324-3882
2016-S-033.01	Jacksonville, FL	Concrete Restorations - Norwood	Kevin Diquisto904-751-7500 x14
2016-S-034.01	Cocoa, FL	Self Supported Stairway Addition	Troy Howell 321-625-7772
2016-S-036.01	Mulberry, FL	Aerator Restoration	John Wright863-661-8954
2016-S-037.01	Jacksonville, FL	Box Culvert Repair	James Langford404-406-1125
2016-S-039.01	West Palm Beach, FL	Misc. Tank Repairs	Will Pulsford954-975-0388
2016-S-041.01	Jacksonville, FL	Box Culvert Repair	James Langford404-406-1125
2016-S-042.01	Palm Beach Gardens, FL	Wall Repairs	Keith Hass(561) 627-2900 x500
2016-S-044.01	Jacksonville, FL	(12) Dry Tank Inspections	Michael Richardson904-759-4540
2016-S-045.01	Clermont, FL	Misc. Tank Repairs	Randy Corbin352-394-8898
2016-S-046.01	Bay Pines, FL	(2) Dry Tank Inspections	Mike Bender941-378-8844
2016-S-047.01	Tampa, FL	(1) Dry Tank Inspection	Darrin Laughlin813-267-5775
2016-S-050.01	Orlando, FL	Box Culvert Repair	James Langford404-406-1125
2016-S-051.01	Davie, FL	Clean Exterior of Tank	Raul Sotelo954-327-3748
2016-S-052.01	Ft. Pierce, FL	(1) Dry Tank Inspection	Bo Hutchinson772-267-1399
2016-S-054.01	Ft. Pierce, FL	Misc. Repairs and Modifications	Bo Hutchinson772-267-1399
2016-S-056.01	Clay County, FL	Tank Floor and interior wall repairs and concrete spall repair	Travis Tilton904-751-7500 x17
2016-S-059.01	Jacksonville, FL	Arlington Tank rehab and exterior and interior coatings	Michael Richardson904-759-4540
2016-S-059.01	Jacksonville, FL	Arlington Tank rehab and exterior and interior coatings	Michael Richardson904-759-4540
2016-S-060.01	Dade City, Fl	Piping modifications and coatings	Seth Simmons352-745-6950
2016-S-061.01	Palm Beach County, FL	Modifications & Repairs - Belle Glade WTP	Frank Capoccetta561-493-6178
2016-S-061.02	Palm Beach County, FL	Modifications & Repairs - South Bay WTP	Frank Capoccetta561-493-6178
2016-S-063.01	Sanford, FL	Dry Tank Inspection	Richard Casella407-417-7733
2016-S-064.01	St. Petersburg, FL	(2) Manhole Cover Replacements	Bob Sparks727-892-5637
2016-S-065.01	North Miami Beach, FL	(5) Dive Inspections and Cleanings	Sheryl Molina786-479-9097
2016-S-067.01	Christmas, FL	Leak Repairs - Dyal WTP 5.0 MG	David Fisher321-635-7773
2016-S-068.01	Golden Gate, FL	Misc. Repairs Based on Inspection	Chris Thornberry(239) 208-7209
2016-S-069.01	Plant City, FL	(1) Dry Tank Inspection	Darrin Laughlin813-267-5775
2016-S-070.01	Palm Coast, FL	LLI Repair	Ryan Bellerive rbellerive@palmcoastgov.com
2016-S-071.01	Eustis, FL	Lightning Damage Repair	Bill Johnston352-357-3777
2016-S-072.01	Venice, FL	Misc. Tank Repairs - East Tank	Kevin Brown 941-650-0751
2016-S-073.01	Melbourne, FL	Wall Sleeve Installation	Craig Schneiderman407-470-7944
2016-S-074.01	Ft. Pierce, FL	Plast Post Tension Strands	Bo Hutchinson772-267-1399
2016-S-076.01	Ft. Pierce, FL	Leak Repairs	David Schuman 561-997-6433
2016-S-077.01	Leesburg, FL	Wall Penetration Repair	Al Purvis(352) 728-9786
2016-S-079.01	Bartow, FL	Crack Repairs	Elliott Wentworth678-749-9726
2016-S-079.02	Bartow, FL	Polyurethane Injection of Manhole	Elliott Wentworth678-749-9726
2016-S-081.01	Titusville, FL	Exterior Inpsection	Richard Crum321-720-5225
2016-S-082.01	Lake County, FL	Concrete Repairs	James Langford404-406-1125
2016-S-083.01	Chowan County, FL	Clean tank interior, remove & install new baffle curtain, moodify exisitng down-comers, tank disinfection	Mickey Watson252-333-7315
2016-S-085.01	Bradenton, FL	Center Vent Replacement	Thomas Meador941-812-2258
2016-S-086.01	Tampa, FL	NW Repump Dry Tank Inspection	Chris Moore863-956-6624
2016-S-087.01	Ruskin, FL	Dry Tank Inspection	Joe Rymer813-442-0459
2016-S-089.01	Pinellas Co, FL	Wall Manhole Repairs	Jake Warren 352-207-8223
2016-S-090.01	Lakeland, FL	Misc. Modifications	Chris Groo863-324-3882
2016-S-091.01	Hillsborough County, FL	LLI Repair	Mike Lehigh 813-272-5977 x43521
2016-S-093.01	Altamonte Springs, FL	Crack Injection of Active Leaks	Jim Gramlich407-402-5464
2016-S-094.01	Flagler Beach, FL	Misc. Repairs Based on Inspection	Jim Ramer386-437-3776
2016-S-095.01	Daytona Beach, FL	LLI Repair	Mort Parks386-341-0136
2016-S-096.01	Golf, FL	Floor Leak & Piping Repairs	John Lisle jlisle@villageofgolf.org
2016-S-099.01	Wellington, FL	(6) Dry Tank Inspections	Karla Berroteran(561) 791-4031
2016-S-100	Deltona, FL	Maintenance Contract	Shane Churney386-871-7432
2016-S-100.01	Deltona, FL	Saxon Interior Coatings	Shane Churney386-871-7432

2016-S-100.02	Deltona, FL	Sagamore Inspection & Cleaning, Remove & Replace Fiberglass Access Hatch, Rescreen Aerator, Vent and Overflows	Shane Churney386-871-7432
2016-S-101.01	Placida, FL	Interior Repairs	Bonnie Pringle941-809-7091
2016-S-102.01	Manatee County, Fl	Installation of Handrails on 5 tanks	Kirk Cameron941-798-6703
2016-S-103.01	Venice, FL	Jacaranda West Tank Repairs Based on Inspection	Kevin Brown 941-650-0751
2016-S-105.01	Archer, FL	Leak Repair	Todd Hubbard352-332-9911
2016-S-106.01	Cape Coral, FL	(2) Exterior Ladder Modifications	Mike Kayatta239-574-0865
2016-S-107.01	Jacksonville, FL	Shotcrete Repair Application - McMillan WTP	Travis Tilton904-751-7500 x17
2016-S-109.01	Immokalee, FL	Repair Delaminated Concrete on Exterior Dome, Seal Dome Cracks, Aerator Rehabilitation	Jean Pierre Louis239-564-9011
2016-S-110.01	Highland Beach, FL	Center Vent Repairs	Dave Ailstock561-637-2036
2016-S-111.01	Lake Hamilton, FL	Dive Inspection	Nathan Lewellen863-280-0846
2016-S-112.01	Largo, FL	Leak Repair	Cory Westphal813-310-4159
2016-S-113.01	Winter Springs, FL	(2) Dry Tank Inspections	Waylan Locklear407-327-8992
2016-S-114.01	Hillsborough County, FL	Misc. Repairs Based on Inspection	Joe Rymer813-442-0459
2015 CECS JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2015-S-001.01	Port Orange, FL	Handrail Repairs	Steve Miller(386) 295-4735
2015-S-003.01	Lake Worth, FL	(1) Dry Tank Inspection	Timothy Sloan561-586-1710
2015-S-004.01	Cape Coral, FL	Link Seal Installation	Richard Jones239-242-3418
2015-S-005.01	Jacksonville, FL	Dry Inspections as needed (16)	Steve Cottone904-665-6631
2015-S-007.01	Oralndo, FL	T&M Leak Repair	Drew Gumieny407-321-8410
2015-S-009.01	Tampa, FL	Dry Inspection, Cleaning & Interior Pipe Coating	Chris Saliba 813-416-3992
2015-S-011.01	Broward County, FL	Digester Cover Replace & Rehab	Sam Akrouk954-739-8100
2015-S-012.01	Port St. Lucie, FL	Expansion Joint Repair	J.Thomas Williams850-438-9661
2015-S-014.01	Apopka, FL	MATERIALS ONLY - Vent Gasket	Daniel Ribnikar407-703-1787
2015-S-015.01	Perry, FL	(2) Exterior Tank Inspections	Billy Wigglesworth 854-584-7402
2015-S-016.01	Polk County, FL	Aerator Floor Refurbishment	Steven Whidden863-397-1441
2015-S-017.01	Clewiston, FL	Leak Repair	Cliff Dykes352-239-9165
2015-S-018.01	Mims, FL	Wall Sleeve Addition	Brett Lefever321-972-9325
2015-S-020.01	Pinellas County, FL	(6) Dry Tank Inspections & Desinfections	James Just727-464-3205
2015-S-021.01	Pasco County, FL	Misc. Leachate Tank Repairs	John Power727-856-0119
2015-S-022.01	Pasco County, FL	Misc. Repairs Based on Inspection	John Power727-856-0119
2015-S-022.02	Pasco County, FL	Misc. Repairs Based on Inspection	John Power727-856-0119
2015-S-022.03	Pasco County, FL	Misc. Repairs Based on Inspection	John Power727-856-0119
2015-S-023.01	Tallahassee, FL	Leak Injection	Jim Oskowis850-694-8001
2015-S-024.01	Davie, FL	(2) Level 1 Inspections	Renuka Mohammed-Bajnath
2015-S-025.01	Polk County, FL	Aerator Floor Refurbishment - Turner Road	Steve Whidden863-397-1441
2015-S-025.02	Polk County, FL	Aerator Floor Refurbishment - South County Jail	Steve Whidden863-397-1441
2015-S-025.03	Polk County, FL	Prepare & Paint Tank Exterior - Edgehill	Steve Whidden863-397-1441
2015-S-026.01	Polk County, FL	(6) LLI Repairs & (2) LLI Replacements	Steve Whidden863-397-1441
2015-S-027.01	Ft. Lauderdale, FL	Crack Injection	Robert Burks954-828-7864
2015-S-028.01	Ft. Lauderdale, FL	Concrete Pipe Repair	Robert Burks954-828-7864
2015-S-030.01	Palm Coast, FL	Baffle Curtain Repair	Donald Holcomb(386) 986-2344
2015-S-031.01	Palm Beach County, FL	Crack Injection	Bruce Rahmani 954-882-1169
2015-S-034.01	Cocoa, FL	Handrail Additions - Dyal WTP	Brian Warthen407-650-2166
2015-S-034.02	Cocoa, FL	Handrail Additions - Dyal WTP (Steel)	Brian Warthen407-650-2166
2015-S-035.01	Jacksonville, FL	Handrail Modifications & Stainless Steel Screen - Oakridge WTP	Steve Cottone904-665-6631
2015-S-035.02	Jacksonville, FL	Handrail Modifications - Lovegrove WTP	Steve Cottone904-665-6631
2015-S-036.01	Gibsonton, FL	Exterior Tank Inspection	Jeff Kitchen863-354-9010
2015-S-038.01	Inverness, FL	Dive Inspection	John Sowka352-410-1942
2015-S-042.01	Perry, FL	CLS Tank No. 1 Rehab	Billy Joe Wigglesworth 854-584-7402
2015-S-044.01	Ft. Pierce, FL	Misc. Tank Repairs & Coatings - JC Park Repump	Bo Hutchinson772-466-1600
2015-S-045.01	Lake Panasofkee, FL	(6) Tank Cleanings and Inspections	Shane Fischer813-621-0080
2015-S-049.01	Sarasota County, FL	(1) Dry tank inspection and Cleaning	Guy Le Patourel941-735-7797
2015-S-050.01	Belle Glade, FL	Crack Repairs - Clearwell	Jose Pozo561-261-3176
2015-S-050.02	Belle Glade, FL	Crack Repairs - Headworks & Basin	Jose Pozo561-261-3176
2015-S-051.01	Lafayette County, FL	Box Culvert Repair	Jay Blankenfeld352-867-1859
2015-S-052.01	Jacksonville, FL	Provide LLI	David Whittemore904-396-6363
2015-S-053.01	Jacksonville, FL	Handrail Modifications - Marietta WTP	Steve Cottone904-665-6631
2015-S-053.02	Jacksonville, FL	Handrail Modifications - Marietta WTP	Steve Cottone904-665-6631
2015-S-057.01	Jacksonville, FL	Crack Injection	Shawn Landrum770-879-4079
2015-S-058.01	Tequesta, FL	(3) Dive Inspections	Sam Heady561-722-1167
2015-S-060.01	Barefoot Bay, FL	WTP Improvements	Brent Shepherd813-288-0068
2015-S-060.01	Barefoot Bay, FL	WTP Improvements	Curtis Matte 407-402-9923
2015-S-060.01	Barefoot Bay, FL	Credit for Ladder & Safety Climb	Curtis Matte 407-402-9923
2015-S-064.01	West Palm Beach, FL	(1) Dry Tank Inspection - Jog Road	Tim McAleer(561) 493-6181
2015-S-065.01	Port Orange, FL	Wall Pipe Removal	Thomas Troutman386-566-4347
2015-S-066.01	Ocoee, FL	(1) Dry Tank Inspection	Tom Henig407-296-1709
2015-S-067.01	Deltona, FL	Dome Probe Addition	John Justus 386-214-1339
2015-S-068.01	Jacksonville, FL	Vent Curb Repairs (6)	Steve Cottone904-665-6631
2015-S-069.01	St. Petersburg, FL	Dome Repairs and Inlet Well Support	Craig Osmanki727-892-5641
2015-S-070.01	Gainesville, FL	(1) Overflow Screen and (3) Insect Barrier Replacements	Rick Davis352-538-1313
2015-S-074.01	Sunrise, FL	(2) Overflow Installations	Doug Kerwin954-845-1016
2015-S-075.01	Nassau County, FL	(1) Dive Inspection	Samuel Ramirez
2015-S-076.01	Inverness, FL	(1) Dry Tank Inspection	Tom Romaelle352-428-2434
2015-S-077.01	Clermont, FL	(2) Dry Inspections	Randy Corbin352-394-8898
2015-S-078.01	Sunrise, FL	LLI Repair	Doug Kerwin954-845-1016
2015-S-079.01	Charlotte County, FL	(1) Dry Tank Inspection	Tom Christ941-225-6172
2015-S-080.01	Tequesta, FL	(1) Underwater Cleaning, Exterior Dome vent & overflow rescreening and security mesh installation	Sam Heady561-722-1167
2015-S-080.02	Tequesta, FL	(1) Underwater Cleaning, Exterior Dome vent & overflow rescreening and security mesh installation	Sam Heady561-722-1167
2015-S-080.03	Tequesta, FL	(1) Underwater Cleaning	Sam Heady561-722-1167
2015-S-082.01	Melbourne, FL	Repairs and Modifications - BNR Basin No. 1	Chris Mincey352-321-6652
2015-S-082.02	Melbourne, FL	Repairs and Modifications - Secondary Clarifier No. 1	Chris Mincey352-321-6652
2015-S-082.03	Melbourne, FL	Repairs and Modifications - Secondary Clarifier No. 2	Chris Mincey352-321-6652
2015-S-083.01	Loxahatchee, FL	(1) Dry Tank Inspection and Tank cleaning with Vaccuum truck	Tim Blanton561-694-3168
2015-S-084.01	Daytona Beach, FL	(1) Dive Inspection	Lynn Stevens386-671-8869
2015-S-085.01	Ft. Lauderdale, FL	Crack Injection	Robbie Burks954-828-7864
2015-S-086.01	Yazoo City, MS	(1) Dry Tank Inspection	Jennifer Beed662-716-1020
2015-S-087	Deltona, FL	Maintenance Contract	Scott Ruland386-878-8955
2015-S-087.01	Deltona, FL	(3) Dry Tank Inspections	Scott Ruland386-878-8955
2015-S-087.02	Deltona, FL	(10) Dive Inspections	Scott Ruland386-878-8955
2015-S-087.03	Deltona, FL	Aerator Repair - Saxon WTP	Scott Ruland386-878-8955
2015-S-087.04	Deltona, FL	Exterior Painting - Saxon 1.0 MG & 0.5 MG	Scott Ruland386-878-8955
2015-S-089.01	Tampa, FL	Destructive Inspection & Misc Repairs	Mike Harrison(813) 828-3984
2015-S-090.01	Ormond Beach, FL	Aerator Replacement	Brad Davis904-365-4332
2015-S-091.01	Jensen Beach, FL	(2) Dry Tank Inspections	Ted Robbins772-260-8244
2015-S-092.01	Melbourne, FL	(1) Tank Cleanings, Inspection, Disinfection & Repairs	David Phares321-255-4622
2015-S-092.02	Melbourne, FL	(1) Tank cleaning, Inspection & Disinfection	David Phares321-255-4622
2015-S-093.01	Gibsonton, FL	(1) Dry Tank Interior Inspection	Jeff Kitchen863-354-9010
2015-S-094.01	Deland, FL	Aerator Restoration	James Ailes386-740-6850
2015-S-095.01	Okeechobee, FL	Leak Repair	Rudy Garcia863-634-1705
2015-S-098.01	Winter Haven, FL	Aerator Refurbishment	Steven Warder863-287-1618
2015-S-099.01	Boynton Beach, FL	Tank Inspection with destructive investigation	Dave Schuman954-818-5205
2015-S-100.01	Fort Pierce, FL	(2) Dive Cleanings	Eric Wynne772-878-5513
2015-S-103.01	Deland, FL	(2) Dry Tank Inspections	James Ailes386-740-6850
2015-S-104.01	Apopka, FL	(4) LLI Repairs	Daniel Ribnikar407-703-1787
2015-S-105.01	Melbourne, FL	(1) Clean, Inspect & Disinfect	David Phares321-255-4622

2015-S-106.01	Gibsonton, FL	Misc. Exterior Repairs	Jeff Kitchen863-354-9010
2015-S-107.01	Sunrise, FL	Tank Cleaning	Doug Kerwin954-845-1016
2015-S-108.01	St. Petersburg, FL	Manuafacture and install (2) SS manhole covers, gaskets, and bolts	Frank Niles727-430-6389
2015-S-110.01	Cape Canaveral, FL	Launder Cover Installation - Clarifier 1	Paul Wachter813-242-2660
2015-S-110.02	Cape Canaveral, FL	Launder Cover Installation - Clarifier 2	Paul Wachter813-242-2660
2015-S-111.01	Groveland, FL	Dome Pipe Addition	Jim Wornick352-262-4136
2015-S-113.01	Golden Gate, FL	Dry Tank Inspection, Cleaning & Leak Repair	Chris Thornberry 239-565-6125
2015-S-117.01	Fort Pierce, FL	(1) Dive Cleaning	Eric Wynne772-878-5513
2015-S-118.01	Gibsonton, FL	Misc. Interior Tank Repairs	Jeff Kitchen863-354-9010
2015-S-120.01	Tampa, FL	Fall Protection Installation	Brad Labella813-707-3435
2015-S-120.02	Tampa, FL	Fall Protection Installation	Brad Labella813-707-3435
2015-S-121.01	Collier County, FL	Tank Cleaning, Disifnection and Modifications	Brett Carner239-658-4613
2015-S-122.01	Clermont, FL	Misc. Tank Repairs Based on Inspection	Randy Corbin352-394-8898
2015-S-124.01	Sarasota County, FL	Wall Pipe and carbon fiber addition	Jim Wornick352-262-4136
2015-S-126.01	Ft. Lauderdale, FL	T & M Leak Repair and Center Vent Rescreening	Robert Burks954-828-7864
2015-S-127.01	Cape Coral, FL	Liquid Level Indicator Repairs -Everest Water Relcaimation Facility	Gary Gassner 239-574-0894
2015-S-128.01	Ponte Vedra Beach, FL	Dive Inspection & Cleanout - Corona Road WTP	Michael Richardson904-759-4540
2015-S-129.01	Davie, FL	2.0 MG CIP - Tank Modifications and Repairs	Rick DeRosia 954-921-7781
2015-S-129.02	Davie, FL	CIP Clearwell - Modifications and Repairs	Rick DeRosia 954-921-7781
2015-S-130.01	Sunrise, FL	Vent Screen Repalcements on 2 tanks	Doug Kerwin954-845-1016
2014 CECS JOB NO.:	**CITY, STATE / WTP NAME**	**SCOPE OF WORK**	**CONTACT PERSON**
2014-S-002	Davie, FL	Tank Cleaning	Chris Mincey 352-321-6652
2014-S-003	Lake Worth, FL	LLI Repair	Eric Hill 561-493-6259
2014-S-004	Port St. Lucie, FL	Safety Modifications to (9) tanks	Pierre Vignier 772-871-5434
2014-S-005	Dixie County, FL	(1) Dive Inspection	Tony Johns 352-542-7570
2014-S-006	Orlando, FL	Digester III - Repairs	Steve Shelnutt 407-246-4119
2014-S-007	Martin County, FL	(4) Dry Tank Inspections	Jim Richardson 772-708-1702
2014-S-008.01	Lakeland, FL	Handrail Additions (2003-M-076 - 5.0 MG at Combee Plant)	Eric Campbell 863-206-1850
2014-S-008.02	Lakeland, FL	Handrail Additions (1981-M-012 - 5.0 MG at Williams Plant)	Eric Campbell 863-206-1850
2014-S-008.03	Lakeland, FL	Handrail Additions (1987-M-030 - 5.0 MG at Williams Plant)	Eric Campbell 863-206-1850
2014-S-009.01	Boynton Beach, FL	Misc. Repairs - 3.0 MG at Minor Rd WTP	Phill Taylor 561-742-6433
2014-S-009.02	Boynton Beach, FL	Misc. Repairs - 3.0 MG at Boynton Beach W WTP	Phill Taylor 561-742-6433
2014-S-009.03	Boynton Beach, FL	Misc. Repairs - 1.0 MG at Woolbright Rd W WTP	Phill Taylor 561-742-6433
2014-S-010	Port St. Lucie, FL	Screen Replacement	Pierre Vignier 772-871-5434
2014-S-012	Port St. Lucie, FL	Tank Disinfection	Pierre Vignier 772-871-5434
2014-S-014	Ormond Beach, FL	Concrete Piping Modifications	Kyle Hall 386-761-6810
2014-S-015	Orlando, FL	Digester I - Repairs	Steve Shelnutt 407-246-4119
2014-S-017	Seminole Tribe Reservati	Leak Repais	Cliff Dykes 352-239-9165
2014-S-019	New Port Richey, FL	Aerator Rehab	Gary Peterson 727-816-1973
2014-S-020	Port St. Lucie, FL	Screen Replacement	Pierre Vignier 772-871-5434
2014-S-021	Punta Gorda, FL	Post Tension Evaluation	Scott Rambo 941-639-1883
2014-S-022	Sarasota County, FL	Dry Tank Inspection & Cleaning	Kevin Brown 941-650-0751
2014-S-023	Pasco County, FL	Dry Tank Inspection	John Power 727-856-0119
2014-S-025	Gulf Breeze, FL	Dry Tank Inspection	Jason Randell 850-232-9700
2014-S-026	West Palm Beach, FL	Dive Tank Inspection	Daniel Roberge 561-494-1088
2014-S-027	West Palm Beach, FL	Dry Tank Inspection	Daniel Roberge 561-494-1088
2014-S-028	Sunrise, FL	Clean, Inspect, wall repair & link-seal replacement/repair	Doug Kerwin 954-845-1016
2014-S-031.01	Venice, FL	North Aeration Basin - Wall Penetrations	Lars Allebrink 941-722-0621
2014-S-031.02	Venice, FL	South Aeration Basin - Wall Penetrations	Lars Allebrink 941-722-0621
2014-S-032.01	Cocoa, FL	Handrail Installation	Joe DeGiovine 632-635-7774
2014-S-032.02	Cocoa, FL	Handrail Installation	Joe DeGiovine 632-635-7774
2014-S-032.03	Cocoa, FL	Handrail Installation	Joe DeGiovine 632-635-7774
2014-S-035	Seminole County, FL	Lynwood WTP Repairs and Aerator fencing	Jim Wornick 352-262-4136
2014-S-036	Port St. Lucie, FL	(2) Dry Tank Inspections and Cleanings	Pierre Vignier 772-871-5434
2014-S-036	Port St. Lucie, FL	CO 1 - Add Tank Disinfection	Pierre Vignier 772-871-5434
2014-S-040	Orlando, FL	Manhole Leak Repair	Drew Gumieny 407-321-8410
2014-S-041	Port St. Lucie, FL	LLI and Screen Repairs	Pierre Vignier 772-871-5434
2014-S-042	Ft. Myers, FL	(4) Dry Tank Inspections, Cleanings, and disinfections with options to add misc. repairs	Marty Yanga 239-321-7652
2014-S-044	Tampa, FL	(1) Dry Tank Inspection	Darin Laughlin 863-354-9010
2014-S-045	Winter Haven, FL	(7) Dry Tank Inspections and Cleanings	Steve Warder 863-291-5767
2014-S-046	Collier County, FL	Repairs Based on Inspection Report	Tom Sivert 239-252-5376
2014-S-047	Hallandale Beach, FL	Bearstop Leak Repair, Cleaning, & disinfection	Guy Barrett 954-457-1610
2014-S-048	Manatee County, FL	Misc. Repairs Based on inspection of 1.5 MG Clarifier at SW Regional WWTP	Richard Schwarz 904-219-1476
2014-S-049.01	Tallahassee, FL	Clarifier Repairs - Clarifier #8	Jim Oskowis 850-890-1090
2014-S-049.02	Tallahassee, FL	Clarifier Repairs - Clarifier #7	Jim Oskowis 850-890-1090
2014-S-050.01	Deltona, FL	Misc. Modifications - Wellington WTP #1 - 2.0 MG Reservoir	Pat Allman 813-635-0339
2014-S-050.02	Deltona, FL	Misc. Modifications - Lombardy WTP #5-6 - 0.5 MG Reservoir	Pat Allman 813-635-0339
2014-S-050.03	Deltona, FL	Misc. Modifications -Magdalena WTP #16 - 1.0 MG Reservoir	Pat Allman 813-635-0339
2014-S-050.04	Deltona, FL	Misc. Modifications - Normandy WTP #17 - 0.5 MG Reservoir #2	Pat Allman 813-635-0339
2014-S-050.05	Deltona, FL	Misc. Modifications - Normandy WTP #17 - 1.0 MG Reservoir #1	Pat Allman 813-635-0339
2014-S-051.01	Deltona, FL	Misc. Modifications - Saxon WTP #7 - 1.0 MG Reservoir #1	Pat Allman 813-635-0339
2014-S-051.02	Deltona, FL	Misc. Modifications - Saxon WTP #7 - 0.5 MG Reservoir #2	Pat Allman 813-635-0339
2014-S-051.03	Deltona, FL	Misc. Modifications - Courtland WTP #8 - 1.0 MG Reservoir	Pat Allman 813-635-0339
2014-S-051.04	Deltona, FL	Misc. Modifications - Courtland WTP #11 - 1.0 MG Reservoir	Pat Allman 813-635-0339
2014-S-051.05	Deltona, FL	Misc. Modifications - Sagamore WTP #12 - 2.0 MG Reservoir	Pat Allman 813-635-0339
2014-S-052	Dunedin, FL	(6) Dive Inspections and Cleanings	Joe Goldbach 727-298-3186
2014-S-053	Seminole County, FL	Spray Disinfection	Jim Gramlich 407-402-5464
2014-S-054	Jacksonville, FL	Dry Inspections as needed	Steve Cottone 904-545-7300
2014-S-056.01	Jacksonville, FL	Install Full Dome Perimeter Handrail - Bartram Tank #1	Steve Cottone 904-545-7300
2014-S-056.02	Jacksonville, FL	Install Full Dome Perimeter Handrail - Bartram Tank #2	Steve Cottone 904-545-7300
2014-S-056.03	Jacksonville, FL	Install Full Dome Perimeter Handrail - Monument Rd	Steve Cottone 904-545-7300
2014-S-056.04	Jacksonville, FL	Install Full Dome Perimeter Handrail - St. Johns North	Steve Cottone 904-545-7300
2014-S-056.05	Jacksonville, FL	Install Full Dome Perimeter Handrail - St. Johns Forest	Steve Cottone 904-545-7300
2014-S-056.06	Jacksonville, FL	Provide and Install Security Door - (BEACON HILLS WTP) (MONUMENT ROAD WTP) (ST. JOHNS NORTH WTP)	Steve Cottone 904-545-7300
2014-S-058	Jacksonville, FL	Southwest Tank 2 - Misc. Exterior Repairs Based on Inspections	Steve Cottone 904-545-7300
2014-S-061	Manatee County, FL	Repair Fire Damage	Brett Carner 813-783-9119
2014-S-065	Cooper City, FL	Provide overflow screens, center vent screens, and manhole gasket	Mike Bailey 954-434-5519
2014-S-066.01	Apopka, FL	Plymouth Regional WTP - Misc. Repairs based on inspection	Kevin Burgess 407-703-1731
2014-S-066.02	Apopka, FL	Mt. Plymouth Lakes WTP - Misc. Repairs based on inspection	Kevin Burgess 407-703-1731
2014-S-067.01	Coral Springs, FL	Prestressed Concrete Tank - Inpsection, Cleaning & Repair	Jock McCartney 954-341-7417
2014-S-067.02	Coral Springs, FL	CIP Concrete Clearwell - Inspection, Cleaning & Repair	Jock McCartney 954-341-7417
2014-S-067.03	Coral Springs, FL	Steel Hydropneumatic Tank - Inspection & Cleaning	Jock McCartney 954-341-7417
2014-S-068	Jacksonville, FL	Southwest Tank 1 - Exterior Repairs & Painting	Steve Cottone 904-545-7300
2014-S-069.01	Jacksonville, FL	Highlands Tank 1 - Exterior Repairs & Painting	Steve Cottone 904-545-7300
2014-S-069.02	Jacksonville, FL	Highlands Tank 2 - Exterior Repairs & Painting	Steve Cottone 904-545-7300
2014-S-069.03	Jacksonville, FL	Highlands Tank 4 - Exterior Painting	Steve Cottone 904-545-7300
2014-S-070	Jacksonville, FL	Oakridge Tank 1 - Exterior Repairs, Painting, and new SS manhole cover	Steve Cottone 904-545-7300
2014-S-071	Jacksonville, FL	Corona Tank 1 - Aerator Rehab	Steve Cottone 904-545-7300
2014-S-072	Jacksonville, FL	Cecil Tank 1 - Aerator Rehab	Steve Cottone 904-545-7300
2014-S-073.01	Jacksonville, FL	Hendrick Tank 1 - Exterior Repairs	Steve Cottone 904-545-7300
2014-S-073.02	Jacksonville, FL	Hendrick Tank 2 - Exterior Repairs	Steve Cottone 904-545-7300
2014-S-074.01	Jacksonville, FL	Royal Lakes Tank 1 - Exterior Repairs, Painting, and new SS manhole cover	Steve Cottone 904-545-7300
2014-S-074.02	Jacksonville, FL	Royal Lakes Tank 2 - Exterior Repairs, Painting, and new SS manhole cover	Steve Cottone 904-545-7300
2014-S-075	Jacksonville, FL	Highlands Tank 3 - Exterior Repairs & Painting	Steve Cottone 904-545-7300
2014-S-076	Jacksonville, FL	Deerwood Tank 1 - Exterior Repairs & Painting, and new SS manhole cover	Steve Cottone 904-545-7300

2014-S-077	Gainesville, FL	Exterior Ladder Installation	Cliff Dykes	352-239-9165
2014-S-080	Altamonte Springs, FL	Underfloor Pipe	Stephen Bond	404-436-7458
2014-S-081	Cape Coral, FL	Manhole Cover Replacements	Mike Kayatta	239-574-0865
2014-S-082	Boca Grande, FL	Exterior Modifications on (3) tanks based on inspections	Bonnie Pringle	941-964-2423
2014-S-083	Pinellas County, FL	Misc. Repairs Based on Inspection of 7.5 MG at S.K. Keller WTP	Royce Rarick	727-453-6992
2014-S-084	Manatee County, FL	Provide and ship (8) custom manhole gaskets	Brett Carner	813-783-9119
2014-S-085	Palm Beach County, FL	(1) Dry Inspection, Cleanings, & LLI Repair	Joe Barcia	561-801-2344
2014--S-086	Ft. Lauderdale, FL	Leak Repair	Robert Burks	954-828-7864
2014-S-087	Orlando, FL	Misc. Tank Modifications and Repairs	Erik Anderson	407-321-8410
2014-S-088	Ocoee, FL	(1) Dry Tank Inspection	Trent Hopper	321-946-5276
2014-S-089.01	Deltona, FL	(1) Dry Tank Inspection - Courtland 11	Scott Ruland	386-574-2181
2014-S-089.02	Deltona, FL	Rescreen Aerator - Courtland 11	Scott Ruland	386-574-2181
2014-S-089.03	Deltona, FL	Louvered Panels - Magdalena	Scott Ruland	386-574-2181
2014-S-089.04	Deltona, FL	LLI Repair & Manhole Cover Replacement - Courltand 8	Scott Ruland	386-574-2181
2014-S-089.05	Deltona, FL	Rescreen Aerator - Normandy	Scott Ruland	386-574-2181
2014-S-089.06	Deltona, FL	Rescreen Aerator - Sagamore	Scott Ruland	386-574-2181
2014-S-089.07	Deltona, FL	Recoat inlet piping, manhole cover replacement, & rescreen aerator - Saxon	Scott Ruland	386-574-2181
2014-S-089.08	Deltona, FL	Rescreen Aerator - Lombardy	Scott Ruland	386-574-2181
2014-S-089.09	Deltona, FL	Rescreen Aerator - Wellington	Scott Ruland	386-574-2181
2014-S-089.10	Deltona, FL	Exterior Painting	Scott Ruland	386-574-2181
2014-S-091	Clay County, FL	Box Culvert Repair	James Langford	770-952-9187
2014-S-093	Winter Garden, FL	LLI Repair		
2014-S-094	Okeechobee, FL	(3) Dry Tank Inspections	Kevin Rogers	863-634-4038
2014-S-095	Ruskin, FL	Leak Repairs	Jim Wornick	352-262-4136
2014-S-096	Hillsborough County, FL	Pipe Installations	Michael Budin	727-848-8292
2014-S-100	Hollywood, FL	Shotcrete Pool	Shaun Laughery	407-880-8800
2014-S-101	Sanibel, FL	(1) Dry Tank Inspection	Scott Krawczuk	239-472-6397
2014-S-102	Sunrise, FL	(2) Dive Inspections	Rick Morales	954-415-1272
2014-S-104	Jacksonville, FL	Dome Band Repair	Steve Cottone	904-545-7300
2014-S-105	Sunrise, FL	Floor Leak Repair	Ted Petrides	954-888-6035
2014-S-106	Ft. Pierce, FL	Crack Injection	David Schuman	561-997-6433
2014-S-107	Manatee County, FL	Misc. Repairs Based on Inspection	Richard Schwarz	904-219-1476
2014-S-108	Hillsborough County, FL	Abrasive Blast and Coating of Existing Pipe	Joe Rymer	813-442-0459
2014-S-109.01	Wellington, FL	Exterior Crack Repair - GST #1	Karla Berroteran	561-753-2465
2014-S-109.02	Wellington, FL	Exterior Crack Repair - GST #2 - 01071	Karla Berroteran	561-753-2465
2014-S-109.03	Wellington, FL	Leak Repair - CIP Basin	Karla Berroteran	561-753-2465
2014-S-110	Ft. Pierce, FL	(1) Dry Inspection	Jason Lee	561-317-0206
2014-S-111.01	Pembroke Pines, FL	Emergency Repairs, Modifications, Cleaning and Inspection - East Tank	Gerry Desjardins	954-299-5707
2014-S-111.02	Pembroke Pines, FL	Emergency Repairs, Modifications, Cleaning and Inspection - West Tank	Gerry Desjardins	954-299-5707
2014-S-112	Clewiston, FL	Misc. Interior Tank Repairs	Mark Ezell	863-602-8555
2014-S-113	Jacksonville, FL	Dome Repair	Steve Cottone	904-545-7300
2014-S-115	Clearwater, FL	Baffle Curtain Removal	Frederick Hemerick	(727) 224-7993
2014-S-116	Hillsborough County, FL	Link Seal Replacement	Joe Rymer	813-442-0459
2014-S-117	Venice, FL	Dry Tank Inpsection and Cleaning	Kevin Brown	941-650-0751
2014-S-119	Apopka, FL	Aerator Rescreening	Kevin Burgess	407-703-1731
2014-S-120	Wellington, FL	Wall Sleeve Installation	Karla Berroteran	561-753-2465
2014-S-122	Melbourne, FL	(1) Dry Inspection, Cleaning, & Disinfection	David Phares	321-255-4622
2014-S-123	Sunrise, FL	(5) Level 1 Dry Inspections	Sylvester Anderson	954-845-1016
2014-S-124.01	Jacksonville, FL	Full Perimeter Handrail Installation	Steve Cottone	904-665-6631
2014-S-124.02	Jacksonville, FL	Full Perimeter Handrail Installation	Steve Cottone	904-665-6631

FLORIDA PROTECTIVE COATINGS SERVICES, INC.
Independent Representative of Tnemec Company, Inc.
13701 Southwest 24th Street, Davie, FL 33325
TEL 407-322-1243 FAX tnemec.com/fpcs

May 16, 2023

CROM Corporation
250 SW 36th Terrace
Gainesville, FL 32607

ATTN: John Bongiovanni

Project: All Projects
RE: Certification for Tnemec High Performance Coating Systems

John,

Thank you for your trust in the use of Tnemec Coatings for your projects. CROM Corporation has been applying Tnemec High Performance Coatings for many years successfully while demonstrating high-quality workmanship that meets Tnemec's strict guidelines and expectations.

Crom has hired personnel with certifications from organizations like NACE, SSPC, AMPP, ICRI, etc… On multiple occasions Tnemec has trained CROM field applicators in the during project startups and at Tnemec's manufacturing facility.

CROM is an approved applicator and qualified to apply Tnemec Products.

If you need additional information, please don't hesitate to contact me.

Sincerely,

Blake Holmes
FPCSI / TNEMEC
(954)648-2787
BHolmes@Tnemec.com
NACE Coating Inspector No.68739

C.I.M. Industries Inc.

23 ELM STREET, PETERBOROUGH, NEW HAMPSHIRE 03458 / PH: 603-924-9481 / FAX: 603-924-9482

March 2, 2021

Cliff Dykes
Crom Corp
250 SW 36th Terrace
Gainesville, FL 32607

Re: CIM Applicator

The purpose of this letter is to verify that Crom Corp has been an CIM applicator for over 20 years. Crom is in good standing with CIM, is a CIM recommended company in the SE United States and has successfully completed several medium to large projects using CIM. CIM has not offered a certified factory training in over a year due to Covid. Crom has signed up to attend the first factory training available.

Please advise if you have any questions or if C.I.M. can be of any service.

Sincerely,

Jeffrey Raglani
South Central Sales Manager
CIM Industries Inc.
A Chase Corp Co.

BUILDING TRUST

CONTACT

Jim Hadley
Senior Project Sales Representative
Phone 704-905-5836
Hadley.jim@us.sika.com

CROM Coatings & Restorations, Inc.
1200 Mountain Creek Rd. Suite 390
Chattanooga, TN 37405
Att: Bruce Russell

SIKA PRODUCT EXPERIENCE

March 3, 2021

Bruce,

This letter is to confirm the relationship that CROM Coatings & Restoration and Sika Corporation have had in your company's installation of our materials.

Your company has had experience in the procedures of installing our concrete repair and protection products. This includes the installation of our SikaTop Plus family of concrete repair mortars, Sikacem and SikaRepair machine applied mortars, SikaFlex and Sika Duoflex joint sealant systems, epoxy and polyurethane chemical grout injection resins, SikaWrap and Sika Carbodur Structural Strengthening systems, Sikadur Combiflex & Combiflex SG systems, SikaTop Seal 107 and Sikagard 62 protective coating systems.

It is our understanding that Crom has successfully installed products similar to our Sikagard 7600 family of 2-component, polyurethane, bitumen modified waterproof coating membranes and epoxy primers.

I hope that this letter will assist you and if you have any further questions please feel free to contact me at 704-905-5836.

Sincerely,

James F Hadley
Greater VA, NC & SC
Sika Corporation

CROM
WATER INFRASTRUCTURE SOLUTIONS

NICHOLAS MARTIN

REGIONAL LEAD SOUTH FLORIDA

(352) 538-0719 | nmartin@cromcorp.com

PROFILE

Committed to delivering end results to clients that meet the highest industry standards, with a strong background in the design and construction of water infrastructure solutions. Adept at managing teams that ensure safety and regulatory compliance while enhancing efficiency, ultimately driving positive results for the communities and clients.

EXPERIENCE

Region Lead	CROM	2024 - Present
Regional Manager	CROM	2023 - 2024

EDUCATION

University of Florida, Gainesville, FL
BS in Building Construction

CERTIFICATIONS

- FL Licensed Plumber

SAFETY & TRAINING

- OSHA 30-Hour Construction Safety and Health
- CPR
- Fall Protection

OTHER EXPERIENCE

Vice President	Florida Design Drilling Corp.	2018 - 2023
Project Manager	Wharton Smith Construction Group	2012 - 2017

CROM®
WATER INFRASTRUCTURE SOLUTIONS

CAMERON KENYON

BUSINESS DEVELOPMENT MANAGER

(352) 440-1721 | ckenyon@cromcorp.com

PROFILE

Advanced skills developed in marketing, sales, and management of turnkey construction projects. Comprehensive understanding of the engineering design and construction details of wire-wound circular prestressed concrete tanks, as well as coordination between government agencies, engineers, and contractors to ensure the successful development of projects. Focused on details and dedicated to delivering clients a world-class product constructed safely, ahead of schedule, and held to the highest industry standards.

EXPERIENCE

Business Development Manager	CROM	2023 - Present

EDUCATION

University of Florida, Gainesville, FL
Bachelor of Science, Civil Engineering

CERTIFICATIONS

- Board of Professional Engineers
  - FL (#96603)

SAFETY & TRAINING

- OSHA 30-Hour Construction Safety and Health
- Fall Protection

OTHER EXPERIENCE

Project Engineer	Holtz Consulting	2019 - 2023

CROM®
WATER INFRASTRUCTURE SOLUTIONS

GIANNI CIANCONE, PE

DIRECTOR OF ENGINEERING

(352) 457-1336 | gciancone@cromcorp.com

PROFILE

Provides comprehensive engineering services for a wide range of projects. Specializes in developing, bidding, constructing, repairing, and improving prestressed concrete tanks. Additionally, offers expertise in project management, quality control, and innovative design solutions to ensure the successful completion of projects within budget and on schedule.

EXPERIENCE

Director of Engineering	CROM	2017 - Present
Associate Engineer	CROM	2016 - 2017
Project Manager/Structural Engineer	CROM International	2014 - 2016
Staff Engineer	CROM	2007 - 2014

EDUCATION

University of Florida, Gainesville, FL
Master of Engineering, Civil Engineering (Structures)

Universidad Santa Maria, Caracas, Venezuela
Bachelor of Science, Civil Engineering (Concentration: Structures)

CERTIFICATIONS

- Professional Engineer
  - AL (#39990)
  - AR (#81434)
  - FL (#77546)
  - GA (#046860)
  - KY (#36368)
  - NC (#051738)
  - VA (#0402065281)
  - TN (#125137)
  - TX (#153133)

MEMBERSHIPS

- ACI
- AWWA
- AWWA-D 110 Voting Member

SAFETY & TRAINING

- OSHA 30-Hour Construction Safety and Health

CROM®
WATER INFRASTRUCTURE SOLUTIONS

BRUCE RUSSELL

DIRECTOR OF RESTORATION & FIELD OPERATIONS

(352) 359-8495 | brussell@cromcorp.com

PROFILE

Comprehensive understanding and experience in the construction of prestressed concrete tanks ranging from 100,000 to 10,000,000 gallons in the water and wastewater industries. Industry leader and award winning in the innovation and design of quality shotcrete applications and projects. Meticulous, knowledgeable, and thorough in all aspects of project creation to completion. Excellent interpersonal skills to communicate a clear vision to all team members during all steps of the bidding process.

EXPERIENCE

Director of Restoration & Field Operations	CROM	2024 - Present
Restorations Director & Bid Manager	CROM	2020 - 2024
Construction Manager	CROM	2018 - 2020
Nozzleman Certification/ Recertification Program Director	CROM	2014 - 2018
Service Project Manager	CROM	2012 - 2014
Superintendent	CROM	1996 - 2012
Tank Builder	CROM	1985 - 1996
Hop Sand Blaster and Truck Loader	CROM	1984 - 1985

CERTIFICATIONS

- Certified Nozzleman
- ACI Certified in Wet Mix

MEMBERSHIPS

- ASA Board of Directors
- ASA Contractor Qualification Committee
- ASA Safety Committee

CROM®
WATER INFRASTRUCTURE SOLUTIONS

RICK SMITH

QUALITY ASSURANCE/QUALITY CONTROL MANAGER

(352) 440-0778 | rsmith@cromcorp.com

PROFILE

Quality Assurance/Quality Control (QA/QC) Manager, of CROM, LLC (CROM), Crom Coatings and Restoration Division. Advanced skills in developing best practices, implementation strategies, and fine tune objectives. Strong resource to project managers while investigating failures and or deficiencies while continually adjusting field QA/QC initiatives to avoid future self-induced failures.

EXPERIENCE

QA/QC Manager	CROM	2023 - Present

EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND
NESEP (Naval Enlisted Scientific Engineering Program)
Bachelor of Science, Materials Engineering

CERTIFICATIONS

- NACE Certified Coating Inspector #1377
- USNRC Lev III Certified Nuclear Coatings Inspecto
- SSPC Protective Coatings Specialists (PCS)
- SSPC Master Coatings Inspector (MCI)
- SSPC Professional Coatings Inspector (PCI)
- SSPC Certified Concrete Coatings Inspector (CCI)
- SSPC Certified Bridge Inspector (BCI)
- SSPC Certified Training Inspector
- SSPC Quality Control Supervisor (QCS)
- API 653 Inspector #650
- SSPC C-3&5 Lead Abatement Supervisor
- PSHA 40 Hour and Supervisor in Charge
- ASNT Level II, UT, PT, MT
- Confined Space Entry Technician/Supervisor/Instructor
- Gas Free Chemist, API
- EIT CWI Engineer
- Master Diver (USN) Commercial Pilot (Multi Engine TP)

OTHER EXPERIENCE

Managing Partner & Senior Inspector	Asset Preservation Partners LLC	2015 - 2023
Corrosion Engineer/QA Manager	Wheelblast Inc.	2009 - 2015
Principal Engineer	Williams Specialty Services	2006 - 2009
Engineering Specialist/ Techn. Auditor	SSPC	2005 - 2006
General Manager	Corrosion Engineering	1990 - 2205

CROM®
WATER INFRASTRUCTURE SOLUTIONS

CLEMENTE PICHARDO

PROJECT MANAGER III SENIOR

(352) 262-7289 | cpichardo@cromcorp.com

PROFILE

Advanced skills in estimating, job cost control, management, scheduling, document control, contract review, and site safety management. Comprehensive understanding of the attention required for team organization and development necessary to help guide projects' progress, safety, and quality through to completion.

EXPERIENCE

Project Manager III Sr	CROM	2024 - Present
Project Manager	CROM	2018 - 2024
Project Manager	CROM Coatings and Restorations	2014 - 2018
Field Superintendent	CROM	2008 - 2014
Laborer	CROM	2004 - 2008

EDUCATION

Pasadena Community College, Pasadena, CA

CERTIFICATIONS

- Post Tensioning Institute – Level I/II Unbonded PT Installer & Inspector
- Post Tensioning Institute – Level I/II Multistrand and Grouted PT Specialist
- Post Tensioning Institute – Level I/II Unbonded PT Repair, Rehabilitation, and Strengthening
- Lily Corporation – Epoxy Resin Injection for Repair of Concrete and Other Structures
- Honeywell Safety Products Respiratory Training Seminar - Qualitative Fit Test Trainer
- Master's Certificate in Concrete Repair / Concrete Waterproofing
- Hot Gas / Extrusion Welding for HDPE and PP Concrete Protective Lining Systems
- ECAN – EpoxyTech Certified Applicator Program
- NACE – CIP Level 1 Coatings Inspector #76244

MEMBERSHIPS

- ICRI – North Florida Chapter
- AMPP – North Florida Chapter
- AMPP – Standards Committee SC 05 – Surface Preparation
- AMPP – Standards Committee SC 18 – Water & Wastewater
- PTI – Standards Committee DC80 Evaluation and Repair of Unbonded, Post-tensioned Structures
- PTI – Standards Committee M55 Grouting Committee

SAFETY & TRAINING

- OSHA 10-Hour Construction Safety and Health
- OSHA 30-Hour Construction Safety and Health

CROM®
WATER INFRASTRUCTURE SOLUTIONS

CESAR CORNEJO

PROJECT MANAGER II

(352) 538-0748 | ccornejo@cromcorp.com

PROFILE

Advanced skills developed in estimating, job cost control, project management, scheduling, document control, contract review, and site safety management. Comprehensive understanding of the attention required for team organization and development necessary to help guide the projects' progress, safety, and quality through successful completion.

EXPERIENCE

Project Manager II	CROM	2024 - Present
Project Manager I	CROM	2024 - 2024
Project Manager	CROM	2022 - 2024

EDUCATION

Mid Florida Tech, Orlando, Florida
Applied Welding Technology

Orange Technical College, Winter Garden, Florida
A/C, Refrigeration, Heating Technology

CERTIFICATIONS

- AMMP – CCI Level 3
- NACE CIP-3 Senior Certified Coatings Inspector
- ASNT ACCP NDT VT II Certified Technician
- Society for Protective Coating – CAS Technician
- ASME B31.3 Materials & Examinations
- EPA 608 Universal License

MEMBERSHIPS

- American Welding Society
- American Water Works Association
- Society for Protective Coating
- National Association of Corrosion Engineers
- American Society for Testing and Materials

SAFETY & TRAINING

- OSHA 30-Hour Construction Safety and Health
- NSF-61 Training

OTHER EXPERIENCE

Regional QC NACE/AWS Certified Inspector	US Pipe	1999 - 2022

CROM®
WATER INFRASTRUCTURE SOLUTIONS

JULIO GOMEZ

GENERAL SUPERINTENDENT

(352) 363-0990 | jgomez@cromcorp.com

PROFILE

Responsible for overseeing designated Superintendents, coordinating the training and mentoring of crew members, and implementing high-quality skills necessary during all phases of an assigned project with purpose-driven efficiency and a high-quality finished product. Additional responsibilities include coordinating work, using tools and equipment, and adhering to CROM's safety standards.

EXPERIENCE

General Superintendent	CROM	2024 - Present
Superintendent	CROM	2022 - 2024
CCR Superintendent	CROM	2021 - 2022

CERTIFICATIONS

- AMPP – CCI Level 1
- OSHA 30-Hour Construction Safety and Health

SAFETY & TRAINING

- First Aid/CPR/AED Training
- JEA 2-Hour Safety Orientation
- Mobile Elevated Work Platform (MEWP)
- Hazardous Communications (HazCom)
- Hazardous Materials (HazMat)
- Waterblasting Training
- Confined Space Training
- Spill Containment
- FEL Operator Training
- Competent Person

CROM®
WATER INFRASTRUCTURE SOLUTIONS

WILBERTO GARCIA

GENERAL SUPERINTENDENT

(352) 262-4154 | wgarcia@cromcorp.com

PROFILE

Responsible for training and implementing high-quality skills required during construction and maintenance of prestressed concrete reservoirs. Duties include organizing, managing, and facilitating crews throughout project duration to ensure construction activities run smoothly and properly according to engineering and design drawings. Continuously maintaining CROM's safety standards and overseeing the use of tools and equipment and safety practices of crew and subcontractors; coordinating work of subcontractors and owners to ultimately achieve the desired high-quality finished product.

EXPERIENCE

General Superintendent	CROM	2024 - Present
Superintendent	CROM	2021 - 2024

CERTIFICATIONS

- C-7 Abrasive Blaster Certification
- C-12 Spray Applicator Certification
- HILTI Powder Actuated Tool Operation Certification

SAFETY & TRAINING

- OSHA 10-Hour Construction Safety and Health
- OSHA 30-Hour Construction Safety and Health
- Basic Scaffolding
- Competent Person: Air Compressor
- Competent Person: Concrete Pump Operations
- Competent Person: Front-End Loader
- Rigging Training

OTHER EXPERIENCE

Area Manager	Universal Painting and Coating	2019 - 2020
Foreman	Wenrich Painting Inc.	2006 - 2019

CROM®
WATER INFRASTRUCTURE SOLUTIONS

ISAAC MORALES

DIRECTOR OF ULTRA HIGH PRESSURE

(352) 646-5575 | imorales@cromcorp.com

PROFILE

Advanced skills, with hands-on experience, in hydro demolition and surface preparation for infrastructure projects, including bridge work and precision concrete removal. Trusted for delivering safe, efficient, and high-quality results, maintaining a zero-incident safety record in ultra-high-pressure operations. Developing custom tooling and advanced waterjet methods that reduce downtime, protect structural integrity, and meet demanding project specifications. Committed to safety, innovation, and client-focused execution on every project.

EXPERIENCE

Director of UHP	CROM	2023 - Present

CERTIFICATIONS

- OSHA Lift Truck (Forklift) Safety
- OSHA 30-Hour Construction Safety and Health
- Jetstream Maintenance
- Aqua Cutter (Brokk) 710/750v Operations/Maintenance
- Hammelman HP Repair/Operation
- WJC Operation/Service

MEMBERSHIPS

- Water Jet Technology Associations

SAFETY & TRAINING

- Mobile Elevated Work Platform (MEWP)
- Hazardous Materials (HazMat)
- Hazardous Communications (HazCom)
- FEL Operator Training
- First Aid Awareness
- Electrical Safety, LOTO, and Arc-Flash
- Confine Space Training
- Competent Person

OTHER EXPERIENCE

Operations Manager	MMW	2016 - 2023
Team Leader	United States Army	2010 - 2016

CROM®
WATER INFRASTRUCTURE SOLUTIONS

HERMAN ADAMS

DIRECTOR OF HSE

(352) 229-3974 | hadams@cromcorp.com

PROFILE

Experienced HSE Director with a record of protecting people, property, and the environment through strong safety programs. Proven ability to lead cross-functional teams in the development and implementation of safety protocols. Provides a comprehensive understanding of the compliance of health and safety rules and regulations with local, state, and federal agencies.

EXPERIENCE

HSE/Field Operations Director	CROM	2024 - Present
HSE Director	CROM	2015 - 2024

EDUCATION

Hawaii Pacific University, Honolulu, Hawaii

University of South Florida, Tampa, Florida

CERTIFICATIONS AND SAFETY TRAINING

- OSHA 500
- EM 385
- MEWP Trainer
- First Aid/CPR/AED Instructor
- Train the Trainer Fall Protection
- Accident Investigation
- Emergency Preparedness
- Confined Space Trainer
- Certified Rigger
- Certified Signalman
- Crane Management
- HAZMAT

OTHER EXPERIENCE

Shop Manager	Oreair Electric, Jacksonville, Florida	2014 - 2015
Safety Director	Summit Erectors, Jacksonville, Florida	2010 - 2014
Branch Manager/Safety Manager	Tradesmen International, Gainesville, Florida	2004 - 2009
United States Army	United States	1998 - 2005

CROM®
WATER INFRASTRUCTURE SOLUTIONS

FELIX MANCILLAS

HSE MANAGER

(352) 514-9612 | fmancillas@cromcorp.com

PROFILE

Develops and maintains a code of construction safety practices. Ensures the safety of workplace personnel and minimizes the company's risk exposure through comprehensive understanding and enforcement of health and safety regulations at local, state, and federal levels.

EXPERIENCE

HSE Manager	CROM	2024 - Present
HSE Regional Coordinator	CROM	2020 - 2024
Skilled Laborer	CROM	2018 - 2020

EDUCATION

Marion Technical College, Ocala, FL

CERTIFICATIONS

- Certified Rigger
- Certified Space Trainer
- Certified Signalman

SAFETY & TRAINING

- OSHA 500 Trainer in Occupational Safety and Health Standards for Construction Industry
- OSHA 30-Hour Construction Safety and Health
- EM 385
- HAZWOPER 24
- HAZWOPER 40
- Accident Investigation
- Emergency Preparedness
- First Aid, CPR, and AED Trainer

CROM®
WATER INFRASTRUCTURE SOLUTIONS

LEILAMANI ZARATE

SAFETY AND TRAINING ASSISTANT

(352) 318-2757 | lzarate@cromcorp.com

PROFILE

The Safety and Training Assistant of CROM, LLC has the responsibility of cultivating a code of construction safety best practices and ensuring the workplace personnel is kept safe while minimizing the company's risk of exposure. Additionally, have comprehensive understanding of the compliance of health and safety rules and regulations with local, state, and federal agencies.

EXPERIENCE

Safety and Training Assistant	CROM	2018 - Present
Skilled Laborer/Construction Assistant	CROM	2016 - 2018

EDUCATION

INSTITUTO TÉCNICO DE SAN LUIS – MEXICO
Associate Degree in Business Administration

SAFETY & TRAINING

- OSHA 510
- OSHA 30
- EM 385
- First Aid/CPR/AED Trainer
- Trainer the Trainer Fall Protection
- Accident Investigation
- Emergency Preparedness
- Confined Space Trainer
- Arial Lift Trainer
- UHP Water Jet Trainer

OTHER EXPERIENCE

Pool Service	T&D Pools	2006 - 2014
Restaurant Manager	El Apache Mexican Restaurant	1995 - 1999

ACI

CROM®

AMERICAN CONCRETE INSTITUTE

This is to certify that

ABIAEL CUBERO

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Dry Mix Process, Vertical & Overhead

Certified Date: 03/18/2025 **Expires:** 03/17/2030

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

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ACI Shotcreter, Wet Mix Process, Vertical Only

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AMERICAN CONCRETE INSTITUTE

This is to certify that

ALBERTO L ENCARNACION

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

AARON ENRIQUEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

ACCINI GARCIA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcrete Nozzleman, Wet Mix Process, Vertical Only

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Raul Bracamontes *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

ALEXANDER L MAISONET

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

BRETT RIVERA CRUZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

CRISTIAN HERNANDEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcrete Nozzleman-in-Training, Wet Mix Process, Vertical Only

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Raul Bracamontes *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

EVERARDO HERNANDEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

EMANUEL TORRES ROSA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

FERNANDO MTZ ORTEGA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

HILARIO HERNENDEZ VAZQUEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

JESUS ANAYA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcrete Nozzleman, Wet Mix Process, Vertical Only

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Raul Bracamontes *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

JOSE BARRON

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Dry Mix Process, Vertical Only

Certified Date: 03/18/2025 **Expires:** 03/17/2030

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

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The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

JULIO RIVERA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

JOHNNY B ROBERTS

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Dry Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

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AMERICAN CONCRETE INSTITUTE

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Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

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AMERICAN CONCRETE INSTITUTE

This is to certify that

JONATNAN RODRIGUEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 03/18/2025 **Expires:** 03/17/2030

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

JOSEPH RAUL RODRIGUEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

JUSTIN A SARRIS

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical & Overhead

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

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Examiner of Record: Mr Raul Bracamontes *ACI Managing Director of Certification*

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AMERICAN CONCRETE INSTITUTE

This is to certify that

KURT E HODUM

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcrete Nozzleman, Wet Mix Process, Vertical Only

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Raul Bracamontes *ACI Managing Director of Certification*

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This is to certify that

LUIS FERNANDO DELGADO ORTA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

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This is to certify that

MIGUEL ANGEL ALBINO MIRANDA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

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The Authenticity of this certification can be verified at www. ACICertification .org/verify

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This is to certify that

MARTIN MARTINEZ VALERO

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

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This is to certify that

MICHAEL W MATTHEWS

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Dry Mix Process, Vertical Only

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MICHAEL MENDEZ

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MICHAEL I SANCHEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Dry Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

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The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

NELSON A ARROYO

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Dry Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

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AMERICAN CONCRETE INSTITUTE

This is to certify that

NESTOR BARRON

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Dry Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

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AMERICAN CONCRETE INSTITUTE

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NESTOR BARRON

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AMERICAN CONCRETE INSTITUTE

This is to certify that

NICOLAS GARCIA GARCIA

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcrete Nozzleman-in-Training, Wet Mix Process, Vertical Only

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Raul Bracamontes *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

NICOLAS VASQUEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

NICOLAS ZARATE

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcrete Nozzleman, Wet Mix Process, Vertical Only

Certified Date: 01/06/2021 **Expires:** 01/05/2026

Examiner of Record: Raul Bracamontes *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

RICARDO VALENZUELA BRICENO

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 03/18/2025 **Expires:** 03/17/2030

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

SERVANDO HERNANDEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

SILBESTRE HERNANDEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 03/18/2025 **Expires:** 03/17/2030

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMERICAN CONCRETE INSTITUTE

This is to certify that

SIMON EMMANUEL NEGRON MELENDEZ

has demonstrated knowledge and ability by successfully completing the ACI Certification requirements and is hereby recognized as an

ACI Shotcreter-in-Training, Wet Mix Process, Vertical Only

Certified Date: 04/25/2024 **Expires:** 04/24/2029

Examiner of Record: Mr RAUL A BRACAMONTES JIMENEZ *ACI Managing Director of Certification*

The Authenticity of this certification can be verified at www. ACICertification .org/verify

AMPP

CROM®

AMPP™

CROM, LLC
of
Gainesville, FL

has met or exceeded the requirements set forth in the ***AMPP QP Accreditation Program*** *for*

AMPP™
QP 8
POLYMER COATINGS
SSPC ACCREDITED CONTRACTOR

INSTALLATION OF POLYMER COATINGS AND SURFACINGS ON CONCRETE
SSPC – QP 8

Chief Product and Operations Officer, AMPP

March 31, 2025 – March 31, 2026
Validation Period

Accreditation for dates listed above to CROM, LLC. Gainesville, FL
Owners are advised to contact qpinfo@ampp.org to verify authenticity of accreditation.

Corporate Headquarters: Houston – 15835 Park Ten Place, Houston, TX 77084
Pittsburgh – 800 Trumbull Drive, Pittsburgh, PA 15205

QP Accredited Organizations

CROM, LLC is the only QP Accredited Contractor for Florida.

Link to Search for QP Accredited Organizations - Florida

https://sspc.org/search-certifications/?target=company&certified=yes&pageSize=20&pageNumber=1&country_code=US&sort=company&country_text=United%20States&state=FL&certification=7

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QP8

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+ CROM, LLC	Gainesville	FL	United States	http://www.cromcorp.com/

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International Sites

Español | 中文

Country: United States

State: Florida

Certification: QP8

Date: 05/06/2025

Company	Location	Contact Info	Webaddress	Address	Certification(s)
CROM, LLC	City: Gainesville State/Province: FL Zip: 32607 Country: United States	Phone: 352-372-3436 Fax: - None - Email : cromcorp@cromcorp.com	http://www.cromcorp.com/	Crom LLC. 250 S.W. 36th Terrace Gainesville FL 32607 United States	QP8 (Certification Expires: 3/31/2026)

Information is based on the date exported. Please visit the AMPP.org website and select QP Programs, and Find a Contractor or Professional for current verification. For more information contact us at QPInfo@AMPP.org.

AMPP Certificates Continued


664977

AMPP™ Certificate of Achievement

The Association for Materials Protection and Performance Recognizes

Cesar Cornejo

As a Certified

Senior Certified Coatings Inspector

Executive Director
AMPP

Expires
July 1, 2027

Cert No.N-55991


9730408

AMPP™ Certificate of Achievement

The Association for Materials Protection and Performance Recognizes

Clemente Javier Pichardo

As a Certified

Certified Coatings Inspector

Executive Director
AMPP

Expires
April 24, 2028

Cert No.N-76244


11486855

AMPP™ Certificate of Achievement

The Association for Materials Protection and Performance Recognizes

Julio Gomez

As a Certified

SSPC Concrete Coating Inspector Level 1

Executive Director
AMPP

Expires
November 30, 2026

Cert No.CCI 137711


11531881

AMPP™ Certificate of Achievement

The Association for Materials Protection and Performance Recognizes

Wilberto Garcia

As a Certified

SSPC Concrete Coating Inspector Level 1

Executive Director
AMPP

Expires
April 25, 2028

Cert No.206450

POST TENSIONING

CROM®

PTI Certification Results Report

Report Print Date:3/8/24

Level 1 and 2 Multistrand PT Specialist

Testing Session Information:

Session: **240857**
Exam Date: **02/23/2024**
Exam Location: **2024 Dallas Certification Week, TX**
Sponsoring Group: **Post-Tensioning Institute**
Phone: **(248) 848-3180 EXT 2**
Examiner on Record: **Miroslav Vejvoda**

Examinee Information

CLEMENTE J PICHARDO
6801 SW ARCHER RD
GAINESVILLE, FL 32608

Certification ID
01531034

Status Information

Certification Status: ***CERTIFIED*** **Level 1 Multistrand & Grouted PT Installation**
Certification Issue/Expiration 02/23/2024 / 02/22/2028

PTI Comments:

Congratulations! You are now certified. We will be happy to confirm this credential to anyone upon request. Enclosed is your Wallet Card and Certification Results attesting this certification. In addition, a directory of all PTI Certified individuals can be found at www.Post-Tensioning.org.

Certification Results

Overall Written Examination	**91.67%**	**PASS**

To pass the Level 1 written examination you must score 70% or higher on the written examination. To pass the Level 2 certification you must score at least 80% on the written exam and submit 1500 hours of work experience.

If you have any questions about this program, or other PTI activity, please feel free to contact us at 248-848-3183.

Report Print Date: 12/7/23

PTI Certification Results Report

Level 1 and 2 Unbonded PT Repair

Testing Session Information:

Session: **234441** Exam Date: **11/17/2023** Exam Location: **Austin Certification Week, TX**
Sponsoring Group: **Post-Tensioning Institute** Phone: **(248) 848-3180 EXT 2**
Examiner on Record: **Fabrice Brugere**

Examinee Information

CLEMENTE J PICHARDO
6801 SW ARCHER ROAD
GAINESVILLE, FL 32608

Certification ID
01531034

Status Information

Certification Status: ***CERTIFIED*** **Level 1 Unbonded PT Repair**
Certification Issue/Expiration 11/17/2023 / 11/16/2027

PTI Comments:

Congratulations! You are now certified. We will be happy to confirm this credential to anyone upon request. Enclosed is your Wallet Card and Certification Results attesting this certification. In addition, a directory of all PTI Certified individuals can be found at www.Post-Tensioning.org.

Certification Results

Overall Written Examination	**81.11%**	**PASS**

To pass the written examination you must score 70% or higher on the written examination.

If you have any questions about this program, or other PTI activity, please feel free to contact us at 248-848-3183.

SAFETY

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WATER INFRASTRUCTURE SOLUTIONS

Safety Prequalification

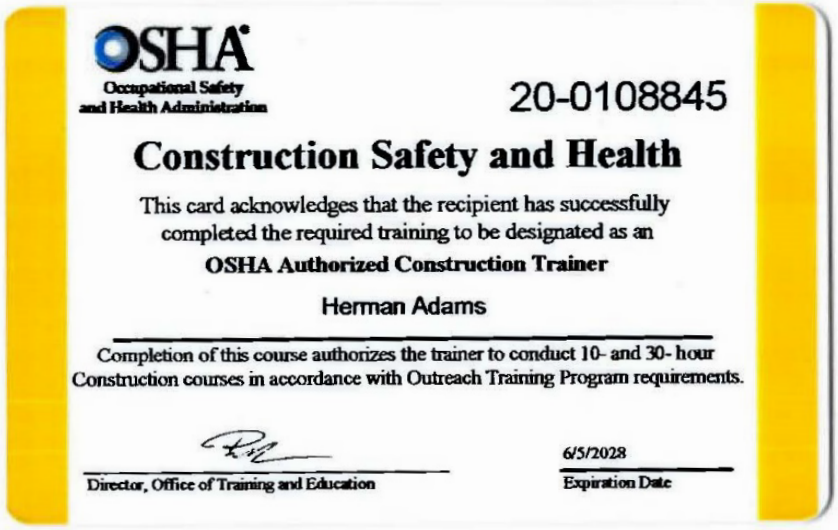
Confined Space, PPE, and Scaffold Certificates

CROM
WATER INFRASTRUCTURE SOLUTIONS

Safety Prequalification

Confined Space, PPE, and Scaffold Certificates

Safety Professional's OSHA 500 Certification



OSHA
Occupational Safety and Health Administration

20-0108845

Construction Safety and Health

This card acknowledges that the recipient has successfully completed the required training to be designated as an

OSHA Authorized Construction Trainer

Herman Adams

Completion of this course authorizes the trainer to conduct 10- and 30- hour Construction courses in accordance with Outreach Training Program requirements.

Director, Office of Training and Education

6/5/2028
Expiration Date

CROM®

WATER INFRASTRUCTURE SOLUTIONS

HEALTH, SAFETY, AND ENVIRONMENTAL PROGRAM

Table of Contents

CHAPTER 1

Safety Philosophy

Chapter 1 – Safety Philosophy

1.1 Message from the Chief Executive Officer (CEO)

CROM, LLC ("CROM") has maintained a tradition of excellence since it was founded in the early 1950's. As such, we recruit, train, and retain the most accomplished professionals in our industry. Our employees, from engineers to field and shop personnel, share our corporate values of integrity, attention to detail, a strong focus on quality attainment, and safety performance.

CROM is committed to providing all employees a safe and healthy workplace. To achieve this, every reasonable effort will be made to maintain a safe and healthy working environment. Our HSE Program has been developed to comply with all Local, State, and Federal health and safety laws, regulations, and standards, with particular emphasis on the Occupational Safety and Health Act of 1970 and OSHA requirements that apply to our construction operations.

To ensure that all our interests in safety are met, all of our employees will be responsible for complying with all company safety policies and procedures, using the prescribed personal protective equipment as required by CROM, and have the knowledge and implementation of the regulations and standards that are applicable on the projects they are working on.

CROM has set a goal of "zero accidents" for itself and its employees and will provide the means to achieve this goal through continued management emphasis on high levels of safety performance and training. Working together to meet this goal will help protect the CROM's vital interests in the health and welfare of all our employees, as well as its interest in reducing factors that inhibit profitability and competitiveness.

The future of CROM presents some very exciting challenges as we move into ever-expanding markets. It is the people who make up the corporate tradition that will help us undertake these challenges and continue the tradition of excellence.

Robert G. Oyenarte, PE
Chief Executive Officer

1.2 Statement of HSE Policy

CROM is committed to providing a safe and healthy place to work for its employees and will make every reasonable effort to achieve these conditions. The HSE Program has been developed to comply with all Local, State, and Federal health and safety laws, regulations, and standards, with particular emphasis on the OSHA requirements as they apply to our "specialty" type of construction operations.

Training

It is CROM's policy to provide employees with training to recognize safety hazards and to establish procedures to be followed in order to prevent accidents. Every employee will receive training in these procedures and will strictly comply with them, except when doing so exposes the employee to a greater hazard. If it is the employee's opinion that this is the case, the employee is to immediately notify their foreman or lead person of the concern. The concern will be addressed before proceeding with the relevant work.

Administration

Safety policies and procedures cannot be effectively administered, implemented, monitored, and enforced by any one individual. The objective of a safe, accident-free work environment can only be accomplished by a dedicated, concerted effort of every individual, from the highest levels of management to the lowest level employees. Every employee must understand his/her value to CROM; the cost of accidents monetarily, the physical and emotional impact, the objective of the safety policy and procedures, the rules of the safety policy and procedures, and what his/her role is in administering, implementing, monitoring, and complying with the safety policy and procedures. This allows for a more personal approach to compliance through planning, training, understanding, and cooperative effort, rather than relying solely on strict enforcement. If an unsafe act persists, strict enforcement will be implemented.

Responsibilities

It is the responsibility of the management of CROM for implementing this HSE Program. Superintendents are responsible for conducting ongoing safety checks of the operations and enforcing the safety policy and procedures. Foremen are responsible for immediately addressing and correcting any unsafe acts or conditions. It is the responsibility of employees to recognize there are inherent risks in a construction occupation, to understand and adhere to safety procedures, and to follow the instructions of the Foreman. Additionally, employees should bring to management's attention any unsafe or hazardous conditions or acts that may cause injury to either themselves or any other employee.

1.3 Training

CROM has a comprehensive training program encompassing employee training, from the newly hired field personnel to the highest levels of management. When hired, certain position levels are expected to complete a field training period to gain first-hand experience of the processes involved in the construction of a tank.

A training program consisting of on-the-job training, reading materials, written tests, and performance evaluations, will determine the pace at which an employee advances. Each advancement requires more responsibility, leadership, and job knowledge with Safety being the key component of this learning process.

All employees who are working on site are expected to wear Personal Protective Equipment (PPE); such as hard hats, safety glasses, safety-toed boots, safety harnesses, retractable lanyards when working above six feet, and other special safety equipment as needed. As employees gain more experience and knowledge, they are used in a "key person" role to ensure that all procedures are followed correctly and safely. For safety reasons, at no time will a new employee be permitted to perform any critical work related to any phase of our tank construction.

The Superintendents at CROM undergo extensive training in safety and technical aspects of the construction process. The Superintendents have either worked their way up through the ranks, hold two-year engineering

or building construction technology degrees, possess four-year graduates with building construction degrees, or are licensed professional engineers. All have done extensive field training under experienced Superintendents' supervision and completed all testing required for every position level. In addition, they have taken ICS courses which provide further training in safety and management.

The Project Managers who work closely with the Superintendents, as part of their training will have worked/trained on a project to gain knowledge of the process of tank construction as well as the safety policies and procedures. After the initial training is completed, the Project Manager is actively involved with every job that they are responsible for ensuring the job is progressing efficiently and safely whether on a job site visit or when in the office.

Other management roles such as Regional Leads/Managers will have also worked or trained on a project to learn the tank construction processes and safety policies and procedures. In some cases, they may assume the role of overseeing the construction of a tank project. Again, once the initial training has been completed, they will proceed with their position responsibilities. Note: Other positions within the company may require the initial safety and training aspect of the tank construction processes as well.

Training for both safety and job skills is applied to all team members that make up CROM. Every team member has an integral part in the construction process ensuring a safe and profitable company.

1.4 The HSE Department

The safety culture of a company has many variables. A primary function of the HSE Department is to analyze these variables and incorporate the safety effort into all aspects of the Company. The department is led by an experienced HSE Director.

The CROM HSE Director is actively involved in all facets of the construction process. CROM uses training, enforcement, and awards to develop a strong safety culture in its employees. As a result, our safety record is lower than the national average for incident rates and lower than the industry standard for experience modifiers. This safety culture is achieved in several ways:

Training

Every crew member has the opportunity to advance within the company, making progressively higher wages and assuming more responsibility. Throughout the respective training period, employees are taught the correct way to perform tasks safely. They are expected to demonstrate proficiency in various tasks in order to advance to different levels. Written tests are given to the crew member to determine their knowledge of skills and safety requirements. Training is continual and is regularly updated as new equipment and processes are developed.

Inspections

The Superintendent is responsible on every project for ensuring that safety procedures are implemented and adhered to on-site. It is the responsibility of the HSE Director, as well as the Project Managers, to ensure that these policies are being carried out and to observe the conditions on every job site visit while noting any discrepancies. The results of inspections, including those of our insurance companies, are considered in the Superintendent's bonus structure.

Teamwork

Every crew is a team working toward a common goal - safe construction. Every team is dedicated to maintaining the highest standards of performance, quality, and safety. Managers actively seek suggestions at Safety dinners, or on the job, that would improve the Company's safety efforts. All suggestions are evaluated, and if accepted, the employee receives a bonus.

Research and Development

CROM is a rapidly growing, dynamic company that is continuously looking for new ways to improve construction projects. Our Research and Development Department constantly tests new materials and evaluates methods to improve equipment, making it more user-friendly for the worker. Safety concerns are prioritized, whether from a suggestion or a new equipment design.

Incentives

CROM rewards a crew that adheres to safety policies and procedures, and completes a project without any accidents, by giving a safety dinner after the project has concluded. Management may also give items to crew members such as hats, shirts, water bottles, etc. when observed working safely.

CHAPTER 2

Responsibilities

Chapter 2 – Responsibilities

Overview

In all operations, CROM is guided by an established accident prevention policy. This policy is based on a genuine desire to eliminate personal injuries, occupational illnesses, and damage to equipment and property, as well as to protect the public whenever and wherever it comes in contact with or is impacted by our company's work.

2.1 CEO

- Overall responsibility for establishing policy and program implementation.
- Authorize the budget and expenditures necessary for safety.
- Approve safety policies as formulated by the HSE Director and Management.
- Set an example of safety for all employees.

2.2 HSE Director

- Responsible for administering and implementing the Construction Safety and Health Regulations as they apply to company construction projects.
- Administer the company HSE Program and see that the Program is put into effect as outlined.
- Ensure project compliance with OSHA regulations and state standards.
- Regularly visit projects and work sites for purposes of inspection and personal communication with personnel, ensuring that projects are properly equipped with requisite signs, posters, first-aid equipment, etc.
- Develop safety recommendations for specific operations and provide safety information, as needed.
- Review all accidents occurring on all projects to determine the type of accident and frequency of occurrence. A monthly listing of each project's accident record will be produced using the information that has been recorded.
- Investigate accidents and near-misses as considered necessary by Management.
- Assist the CEO in working with insurance company representatives and attorneys in the interest of company business related to safety.
- If needed, attend pre-construction meetings to discuss safety with subcontractors, owners, vendors, etc.
- Coordinate with other contractor/subcontractor Safety Officers concerning project-specific safety conditions when necessary.
- Review safety correspondence received from job sites.
- Administer safety inspection checklists.
- Coordinate all insurance company safety inspection reports.
- Establish safety and first-aid training, as necessary, and assist with project safety meetings.
- Attend all meetings with OSHA and represent CROM in all safety matters, including the filing of all required reports.
- Assist site personnel with the procurement of safety equipment.

2.3 Regional Lead/Manager

- Actively support the HSE Program as an example to subordinates with the decisions and directives that may be required.
- Enforce the observance of safety rules and regulations by all persons entering upon or connected with the project. This includes all CROM personnel, Subcontractor personnel, Owner representatives, Engineer representatives, etc.

2.4 Project Manager

- Actively support the HSE Program as an example to subordinates with the decisions and directives that might be required.
- Enforce the observance of safety rules and regulations by all persons entering upon or connected with the project. This includes all CROM personnel, Subcontractor personnel, Owner representatives, Engineer representatives, etc.

2.5 Superintendent

- Responsible for ensuring the health and safety of their employees, other project personnel and other people entering upon or connected with the project.
- Execute their jobs in accordance with OSHA regulations and applicable state standards.
- Responsible for checking for hazardous conditions and eliminating them.
- Ensure that all employees, new hires, and current employees complete and are up to date with new and expired Safety Plus Web (SPW) training courses prior to arriving on the project site. Review these requirements with any CROM employees new to a specific project. Any employee new to a project site should be given a tour of the project site and be oriented to any hazards or requirements that are specific to that work site.
- Hold weekly safety meetings.
- Ensure the posting of all required signage, permits, posters, etc.
- Inspect the project site, tools, and equipment.
- Correct unsafe conditions.
- Promptly report all accidents.
- Investigate and promptly complete reports of every accident or near-miss under their supervision and make prompt reports. This investigation is for taking corrective action and is completed even if no physical injury or significant damage to equipment, property, or materials is incurred.
- Keep the premises free of waste or excess materials caused by the work and clean up and remove all company-owned materials and equipment at the project's completion.
- Provide personal protective equipment and safety devices and ensure proper use.
- Keep a first-aid kit on-site at all times, according to current company specifications.
- Provide information and recommendations to the HSE Director concerning safety matters.
- Complete weekly inspection and safety-related reports.

2.6 Foreman

- Train and motivate workers in proper safety practices.
- Be aware of unsafe acts or conditions and take immediate remedial action.
- Ensure that workers have suitable personal protective equipment for the work being performed.
- Make sure that the equipment in use is not defective or unsafe and is not being used improperly.
- Attend and assist the Superintendent with safety meetings and be involved in the HSE Program.
- Make sure that safeguards, such as walkboards, shoring, etc., are installed according to standards.

2.7 Other Employees

- Be familiar with and comply with proper health and safety practices.
- Use required safety devices and proper personal protective equipment.
- Notify their supervisor immediately of unsafe conditions or acts.
- Report all accidents to their supervisor immediately.
- Identify possible hazards and/or problems and recommend actions to solve or avoid them.
- Become familiar with safety regulations related to their work area.
- Attend weekly safety meetings.
- Correct any unsafe conditions that are within their ability to do so. Notify the Foreman of unsafe conditions if the required action is beyond their control.

CHAPTER 3

New Employee Orientation & Job Site HSE Policy

Chapter 3 – New Employee Orientation and Job Site HSE Policy

3.1 New Employee Orientation

OSHA Regulations
29 CFR 1926.21(A) General Requirements
"The secretary shall, pursuant to section 107(f) of the Act, establish and supervise programs for the education and training of employers and employees in the recognition, avoidance, and prevention of unsafe conditions in employments covered by the Act."

29 CFR 1926.21(8)(2) Employer Responsibilities
"The employer shall instruct each employee in the recognition of unsafe conditions and the regulations applicable to his work to control or eliminate any hazards or other exposure to illness or injury."

Orientation
All employees are required to read and agree to the General Safety Rules as part of the new employee orientation. These rules provide instructions on hazards and general information for employees to know on their first day at the job site, ensuring that they can work safely, effectively, and efficiently. Additionally, every new employee must attend new hire training, which will:

- Explain job site-specific safety conditions and procedures.
- Provide training in the use of required personal protection equipment.
- Familiarize new employees with the job sites, pointing out any unusual conditions.
- Explain reporting procedures for hazards and injuries.
- Educate on the location of Safety Data Sheets (SDS) and storage and handling procedures for hazardous materials.
- All safety training must be completed and is required before the start of work.

Commitment to safety extends beyond the initial training. Additional safety instructions are presented to employees during weekly safety meetings and on-the-job training. This ongoing training ensures that the latest safety procedures and practices are always up-to-date, empowering you to maintain a safe work environment.

In addition, company employees who are new to a particular job site should be briefed on any site-specific safety requirements and given an orientation tour, pointing out any unusual conditions.

ALL safety rules MUST be obeyed.
Failure to do so will result in strict disciplinary action.

3.2 Job Site HSE Rules

Personal Protection and Related Equipment

- Always focus on your work. No horseplay or fighting on the job. Personal radios, MP3 players, cell phones, or earbuds/headphones are not permitted while on the job site. Injury may result from these actions and could lead to termination of employment. For certain work duties, earbuds/headphones are permissible, however, the use is ***only*** upon prior authorization.
- Personal Protective Equipment (PPE) must be worn at all times while on the job to minimize exposure to safety hazards. This includes such items as safety glasses, hard hats, proper safety-toed boots, respirators, or any additional equipment required to perform certain tasks.
- Clothing for the upper body is a Hi-Viz T-shirt with a four-inch sleeve and/or a vest. This shirt must be worn at all times to enhance visibility and as such, the visibility prevents possible safety hazards on the job. Long pants are required on the job site as well.
- Be aware of where you are walking.

- The use of illegal drugs or alcohol, or being under the influence of the same, on the project shall be cause for suspension or termination. If you are taking prescription drugs that could hinder your ability to perform hazardous operations or to operate machinery, notify your supervisor immediately.
- Do not distract fellow workers. Doing so may cause injury, costly errors, dangerous mistakes, affect productivity, and missed safety cues.
- Learn to lift correctly - with the legs and not the back. If the load is too heavy, GET HELP. 20% of all construction-related injuries result from improper lifting.
- Know what emergency procedures have been established for your job site. This knowledge would include such things as the location of the emergency contacts, first-aid kit, fire extinguisher, etc.
- Never move an injured person unless it is absolutely necessary to prevent additional injury. Only those who have received sufficient training should administer First-Aid. Keep the injured as comfortable as possible and utilize first-aid devices until help arrives.

3.3 Excavations and Trenches

Definitions

- Excavation: Any man-made cavity or depression in the earth's surface. An excavation may become a trench if installed forms reduce the depth-to-width relationship.
- Trench: A narrow excavation made below the surface of the ground. In general, the depth is greater than the width, but the width of the trench is not greater than 15 feet.

General Rules

- Before opening an excavation, effort should be made to locate all underground installations. Check with the project Owner and/or utility company prior to excavation.
- Trenches 4 feet or deeper must be shored or sloped back to the angle of repose, starting at a point no further than 4 feet from the bottom of the excavation, unless the trench is in solid rock.
- Any excavation in unstable soil requires shoring or sloping when more than 4 feet deep.
- Excavated material must be placed 2 feet or more from the edge of the excavation. Precautions must be taken to prevent such materials from falling into the excavation.
- Each excavation must be inspected daily by a Competent Person. If evidence of cave-ins or slides is apparent, all work in the excavation must cease until necessary precautions have been taken to safeguard employees.
- Where vehicles or equipment operate near excavations or trenches, the side of the excavation must be shored or based as necessary to withstand the forces exerted by the superimposed load. Also, stops or barricades must be installed around the edge of such excavations.
- Safe access must be provided into all excavations using ladders, stairs, or ramps and be located not more than 25 feet from employees working in the excavations. Such ladders must extend at least 3 feet above ground level.

Barricading Trenches and Excavations

- All open trenches and excavations will be barricaded to protect pedestrians and vehicles.
- When possible, barricades will be set up prior to excavation so there will not be a lag between opening the excavation and erecting the barricade.
- Excavations requiring wooden barricades, constructed with 2x4 top rails at 42 inches in height and 1x4 mid rail including 2x4 upright, no further than 8 feet apart are:
    - Any excavations to be open for more than 36 hours.
    - Any excavation that cuts an accepted established walkway, sidewalk, or aisle way.
- Excavations requiring sawhorse-type barricades with flashing lights are:
    - Any excavation in or cutting an accepted established roadway or temporary roadway where vehicles might travel.
- All other excavations may be barricaded with flagging or barrier tape.

3.4 General HSE Rules

Placing Concrete

- Employees are required to:
    - Wear protective clothing at all times.
    - Keep air hoses clean, untangled and secure.
    - Rub protective cream, if warranted, on any area of the body that may be irritated by cement before the start of the concrete placement or shotcrete operations.
    - Report cement burns to the Superintendent.

Fire Protection

- Know where the fire-fighting equipment is located and learn how to use it.
- When utilizing heat-producing equipment, make sure that the area is clear of all fire hazards and that all sources of potential fires are eliminated.
- Have a fire extinguisher available at all times when utilizing heat-producing equipment.
- Turn in all fire extinguishers for recharge after use. Inspect periodically when not in use.

Compressors and Compressed Air

- Employees will not engage in horseplay with compressed air hoses. Horseplay with compressed air can result in serious injury and is strictly forbidden. Never point an open-air hose at anyone.
- Check all hoses prior to hooking up for cuts, breaks, loose connections, etc.
- Run airlines in areas of little traffic when possible. Avoid crossing roads.
- Compressors must be equipped with a pressure relief valve and pressure gauges.
- Air hose safety restraint cables must be used at connection points where failure would create a hazard.
- All connections should be wired or clipped together to prevent them from uncoupling.
- Do not turn on air valves until you are sure the hose is secure.
- Do not use compressed air to clean yourself off.

Housekeeping

- A good job is a clean job, and a clean job is a safe job. Keep your work area free from rubbish and debris.
- Never throw anything "overboard". There is a no-drop policy in place. Someone passing below may be seriously injured.
- Pile or store material in a stable manner so that it will not be subject to falling.

Mobile Towers

- Erection crews must check each part including frames, x-braces, the base, wheels, etc., during erection. Defective parts are not to be used for mobile tower erection.
- Harnesses with retractable lanyards must be worn by employees when working on mobile towers.
- Before work begins, mechanical brakes will be used when the push base is moved into position.

Tools

- It is imperative that the right tool be utilized for the job, and that it be used in a correct manner.
- Keep tools in good working condition. Damaged, worn, or defective tools can cause injuries and are not to be used. Return damaged tools or equipment to the Job Servicing Facility for repair with a red tag that states the damage or repair needed.
- Do not use power tools and equipment until you have been properly instructed and trained in the safe operation and become authorized to use them.
- Be sure that all guards are in place. Do not remove, displace, damage, or destroy any safety device or safety guard furnished or provided for use on the job, nor interfere with the use thereof.
- Inspect electrical extension cords and other wiring to be certain that they are properly insulated. Do not use frayed or damaged cords. Protect cords from being run over by loaders and other equipment.

- Take special precautions when using power tools on shoring or other locations with limited space and restricted movements. Acquire good footing, use both hands, keep cords clear of obstructions, and do not overreach.
- Be sure that the power tool is off and that all motion has stopped before setting the tool down.
- Disconnect a tool from the power source before changing drills, blades, and bits or attempting repairs or adjustments. Never leave a running tool unattended.
- Use only three-prong extension cords. Check the electrical grounding system daily.

Industrial Hygiene and Occupational Health

- Potable water shall be available at all sites in approved closed containers with disposable cups or bottled water.
- Portable toilets shall be provided, as required for the number of workers, with self-closing doors, latch, and toilet. Defacing or damaging these facilities is forbidden.
- First-aid kits shall be provided at each job site.
- Protection against exposure to harmful gases, fumes, dust, and similar airborne hazards must be furnished through proper ventilation or personal respiratory equipment.

Motor Vehicles and Mechanized Equipment

- When working around any construction equipment, make sure the operator can see you.
- Never oil, lubricate, or fuel equipment while it is running or in motion.
- Gasoline may be handled or stored only in approved safety cans. Do not use gasoline for cleaning parts or tools. Flammable liquids should not be stored in or under job/storage trailers. Flammables can only be stored in the job trailers if they are stored in an OSHA-approved flammable cabinet or storage box.
- Leveling jacks and other safety devices must be used at all times.

Remember: NEVER put any part of your body between a moveable object and a stationary object.

3.5 Drug Screening Plan

It is the continuing policy of CROM, hereinafter referred to as The Company, to ensure safe working facilities, free of drugs and alcohol.

The Company's Drug and Alcohol Prevention Plan will outline the dissemination of the plan, its responsibility, and the specifics of the plan.

Responsibility

The direct responsibility for implementation and follow-up is delegated to the HR Director. They will be assisted by Company and job site staff and will modify the plan as needed.

The Company has the right to test all employees at any time, should it believe they are under the influence of drugs or alcohol; however, clearance for testing must be approved by the HSE Director, HR Director, or Risk Management prior to the test being administered.

Termination

The Company has the right to terminate any employee whose test results are positive, or who refuses to be tested, or has tampered with the test.

CHAPTER 4

Accident Prevention

Chapter 4 – Accident Prevention Program

4.1 Inspections

Machines, materials, tools, and equipment will ultimately wear or be damaged with usage. Employees may place these items, and even themselves, in unsafe positions or situations. For the health and safety of personnel and others, it is imperative that potential losses be identified and eliminated or controlled. Regular planned inspections of the job sites are essential to provide for the safety of our employees, other personnel, and the public.

Performing regular inspections will assist in:

- Maintaining a safe work environment.
- Control the unsafe actions of people.
- Affirm product quality.
- Uphold operational effectiveness and efficiency.

Method of Inspection

- In addition to periodic inspections by the HSE Department or the Project Manager, the Superintendent shall also perform a weekly job site inspection.
- Plan the inspection, acquaint yourself with the areas to be inspected, and be aware of the hazards common to each area.
- Be systematic and complete. After determining the areas to be inspected, be sure that all items are thoroughly examined, including those in hard-to-reach areas that are not regularly used. Priority should be given to items covered by OSHA regulations and those that may become unsafe or cause losses if not inspected at regular intervals.
- Maintain a record of all unsafe practices and conditions discovered. The report should allow for complete and accurate documentation. This is essential for future references from both a legal and loss control standpoint.
- Take corrective action promptly. When permanent measures are not immediately feasible, temporary measures must be used to avert further immediate danger.
- Follow-up to ensure that the corrective action has permanently eliminated or controlled the basic cause of each unsafe practice or condition.
- Special exposure in the areas of environmental health, products, etc. have distinctive features and loss potentials that often necessitate a more specialized inspection.

4.2 Training and Education

General On-Going Training

- Weekly HSE meetings are to be held at the job site location to cover topics pertinent to the work being performed at that job site. The HSE Director often suggests possible topics for these meetings, however, Superintendents are free to establish their own topics for the work at hand.
- Specialized training will be provided when circumstances warrant. The Company will provide the required training, either on-site or at the Company's training facilities.

4.3 HSE Meetings

What is an HSE meeting?

An HSE meeting is a brief review and reminder to an individual or group of people that SAFE PRODUCTION is our goal. The meetings do not have to be lengthy or planned, but they need to be to the point and on a topic that applies to the job.

HSE Meeting Minutes

OSHA requires the company to train its employees. Every employee must acknowledge by signing they have read and understand the rules, attended weekly HSE meetings, and have been trained on how to use equipment on the job.

Keep a record of what happened or was discussed at the HSE meeting. The following information should be recorded:

- Date
- Name/Signature
- Topic
- Questions that require further clarification or information

HSE Meetings should be held at least once a week, preferably on Monday mornings. Using the CROM HSE Program Toolbox Talks, the HSE Director will provide specific topics for discussion as needed.

Topics include, but are not limited to:

- Discussion of recent accidents or near misses
- OSHA Requirements
- Personal Protection Equipment (PPE)
- Discussion of portions of the Job Site HSE Policy
- Fall Protection Procedures and Equipment
- Dome Forming Procedures
- Safety Data Sheets (SDS) or Hazard Communication (HazCom).
- Electrical Safety
- Respirator Requirements
- Erecting and Dismantling Procedures
- Common Sense Subjects
- Housekeeping

CHAPTER 5

Emergency Plan & Accident Investigation

Chapter 5 – Emergency Plan and Accident Investigation

5.1 Emergency Plan Meetings

At the beginning of every project, the Superintendent and/or HSE Department conducts a meeting to inform job site personnel of emergency procedure guidelines. This meeting serves two purposes:

- Review established site-specific company procedures.
- Introduce new procedures and guidelines.

Job Site Requirements

- A Certified CPR/First Aid-trained employee must always be present on site.
- Emergency phone listings must be posted within close viewing distance of each job site trailer.
- A First-Aid kit must be kept at each job site, and its contents must be checked at least weekly to ensure that used items are replaced.
- A vehicle must always be available at the job site to transport injured personnel to a physician, clinic, hospital, etc.

5.2 Inclement Weather

Standard guidelines have been established for the preparation and implementation of Emergency Action Plans (EAPs) for responding to inclement weather and other unplanned events that affect a project. This standard defines the best practices and procedures used to reduce risk to workers in areas where there is a potential impact.

This standard applies to all personnel who perform work outdoors and is designed to help with weather-related emergencies and other safety-related issues. In addition, this standard follows the practices established by the Occupational Safety and Health Administration (OSHA) or by a local government. In the case of a difference between these two requirements, the more stringent will apply. Any questions not covered in the standard should be directed to the HSE Department.

For the purposes of this standard, inclement weather includes thunderstorms, high winds, lightning, tornadoes, hurricanes, or other environmental conditions that could threaten the safety of crew members or damage equipment. Other unplanned events could include civil unrest, active shooter, fire, earthquake, power outage, or other events that cause the project (or a portion of the project) to be evacuated or require workers to shelter-in-place.

Failure to adhere to these standards could result in injury to personnel, bystanders, or damage to property or equipment, and may constitute violations of federal, state, and local laws.

5.3 Responsibilities

Management

Managers and supervisors who monitor and oversee the activities of workers on a project are primarily responsible for implementing Emergency Action Planning and Inclement Weather Safety.

- Ensure that affected workers are briefed and understand the requirements of the site-specific EAP for every project that they work on.
- Enforce adherence and take appropriate action, according to the standard, in the event of non-compliance.
- Be knowledgeable of the requirements for taking action to protect crews and equipment from inclement weather and other unplanned hazards.
- Work with local project personnel to be knowledgeable of procedures and/or site-specific

requirements for inclement weather, site evacuation, shelter-in-place, and other related procedures.
- Prepare and implement site-specific EAPs to address potential inclement weather and other unforeseen hazards.
- Verify EAP contact information, shelter locations, evacuation procedures, etc., as required by the plan.
- Use available tools to monitor weather conditions and forecasts for the project location.
- Obtain assistance from the HSE Department for on-site assessment of work situations where inclement weather protection procedures are in question.

Employee

Employees, contractors, independent contractors, and all other individuals working on the project are responsible for their own safety and complying with all company and departmental safety standards and procedures including:

- Successfully complete required safety briefings.
- Be knowledgeable of their responsibilities for the protection of workers and equipment prior to, during, and/or after inclement weather and other unforeseen events.
- Take immediate action to protect yourself from inclement weather and/or other unforeseen hazards, when directed by on-site operations.
- Familiarize yourself with appropriate inclement weather shelter locations, evacuation routes, and designated rally point locations as determined by the on-site project management.

HSE Department

- Maintain and administer the standard for organization-wide member application.
- Assist management with assessing operations.
- Maintain Safety representation that can be reached at any time, regarding any incidents associated with inclement weather or other unforeseen events.
- Review any serious incidents or near-misses associated with inclement weather or other hazards.
- Notify appropriate levels of management, as necessary, about non-compliance with this procedure. Review and update standards as needed.

5.4 General Requirements

It is the responsibility of the Execution Team and/or Department Management to ensure that appropriate actions are taken in the event of severe weather or other unplanned events that may impact the safety of employees.

The Execution Team and/or Department Management are responsible for monitoring weather conditions of remote sites and providing instruction and direction to employees, general workers, and contractors.

Weather monitoring must be conducted using services such as Weather Bug, National Oceanic and Atmospheric Administration (NOAA), or similar. Current information on weather-related emergencies can also be obtained through the NOAA Weather Radio Network on weather radios or on-site weather stations.

5.5 Emergency Action Plans for Inclement Weather

Emergency Action Plans should address:

- Weather monitoring and alerts.
- Severe weather action thresholds, crew notification procedures, crew actions, evacuation/shelter-in-place considerations, shelter locations, return to work scenarios, etc.
- Emergency Action Plan Posting: Written EAPs should be developed for specific projects and an easy-to-read outline, or overview document, should be posted in a crew gathering area (e.g., office

areas, crew meeting areas, etc.). This document should also list pertinent locations and contact information for fire, police, ambulance, and local medical providers.

- Responsible Individual(s): Individuals who are responsible for implementing the plan, and/or who are responsible for crew safety, should be prominently listed on the plan along with contact information.
- Evacuation Rally Points: Appropriate meeting locations should be established for the crew to gather in the event of a situation that would result in evacuation of the site or a portion of the project. At least two alternative locations should be selected with one being outside of the site (e.g., job trailer, parking garage, etc.) and one being off-site (e.g., crew hotel, etc.). Clear directions for how employees are to be notified to evacuate, as well as how to contact one of the responsible individuals if they cannot reach a Rally Point, must be provided.
- Areas of Refuge: Appropriate areas of refuge (e.g., buildings, garages, basements, etc.) should be identified for personnel to seek shelter during inclement weather (lightning, tornadoes, etc.). The location should be appropriate for the type of weather hazard. Care must be taken to verify that the identified locations are:
    - Large enough for the entire crew.
    - Available to the crew during daytime operations.
    - Open and accessible at all times that the crew is on-site without access restrictions (i.e., these areas must remain unlocked, accessible, and available without the need to call someone to allow access to the crew).

5.6 Inclement Weather Definitions

- Hurricane Watch: A warning issued by the National Weather Service that hurricane conditions (sustained winds of 74 mph or higher) are possible within the specified area within 48 hours.
- Hurricane Warning: A warning issued by the National Weather Service that hurricane conditions (sustained winds of 74 mph or higher) are expected within the specified area within 36 hours.
- Severe Thunderstorm Watch: A warning issued by the National Weather Service when the weather conditions are such that a severe thunderstorm (damaging winds 58 miles per hour or more, or hail three-fourths of an inch in diameter or greater) is likely to develop.
- Severe Thunderstorm Warning: A warning issued by the National Weather Service when a severe thunderstorm has been sighted or indicated by weather.
- Tornado Watch: A warning issued by the National Weather Service when tornadoes are possible in your area.
- Tornado Warning: A warning issued by the National Weather Service when a tornado has been sighted or indicated by weather radar.

5.7 Thunderstorms and Lightning

A thunderstorm is considered severe if it produces hail at least 1 inch in diameter or has wind gusts of at least 58 miles per hour. Heavy rain from thunderstorms can cause flash flooding. High winds can damage equipment and blow down trees and utility poles, causing widespread power outages. If you hear thunder or see lightning, seek shelter immediately!

The information in this section, combined with timely watches and warnings about severe weather, could save your life.

National Weather System Alerts: Thunderstorms

Severe Thunderstorm Watch
A watch indicates that conditions are favorable for severe weather to develop. The Superintendent communicates this information to site management/crew members, indicating that elevated thunderstorm monitoring is occurring. Vital information to be shared will include the threats involved with the watch and the times it is in effect.

Severe Thunderstorm Warning

A warning means that severe weather has been detected and may be imminent. The Superintendent will communicate this information to site management/crew members. Vital information to be shared will include the threats involved with the storms and the times that the warning is in effect. If the threat is imminent, an evacuation of the site and/or at-risk work areas will take place.

Lightning and Thunderstorm Actions during an Event

NOTE: If thunderstorms are forecasted for the day, Management will review the safety plan before the start of work and will take appropriate action.

Distance: 20 miles

- Alert personnel.
- Inform the production team of the potential for weather interruption.
- Inform personnel affected, especially those involved with the use of scaffolding, aerial lifts (scissor lifts, boom lifts; etc.), and cranes.
- Consider options to secure equipment and prepare to evacuate exposed, elevated, and outdoor locations.

Distance: 10 miles

- Cease outdoor activities and all personnel should evacuate to safe locations as soon as possible. This includes crew, supervision, subcontractors, etc.
- Tents are not considered safe for lightning and severe weather.

Distance: 11 miles + 30 minutes

- All Clear. Do not return to an outdoor location until no lightning has been detected within 10 miles for the past 30 minutes.
- Local management will use weather monitoring and lightning detection tools, along with local observations, to determine the proximity of lightning and which safety actions to implement. The direction and speed of an approaching thunderstorm should be accounted for, along with locally developing storms that may form nearby or overhead. If lightning is in the vicinity, the following procedures are mandatory.

When lightning is detected within 20 miles of the site

- Secure outdoor objects on the site that could blow away or cause damage or injury.
- Take light objects inside.
- Close windows securely and brace outside doors.
- Monitor the storm using mobile devices, and/or listen to a battery-operated radio or television for the latest storm information.
- Do not handle any electrical equipment or landline telephones for the reason that lightning could follow the wire.

When lightning is detected within 10 miles of the site

- All crew members are directed to seek shelter (see safe assembly/refuge areas).
- If outdoors, attempt to get into a building, car, mobile unit, or office trailer.
- If no structure is available, get to an open space and squat low to the ground, as quickly as possible, in a crouched position with your hands on your knees. If you are in a wooded area look for an area protected by a low clump of trees. Never stand beneath a single tree in the open.
- Be aware of the potential for flooding in low-lying areas.
- Avoid tall structures such as towers, tents, tall trees, fences, telephone lines, or power lines.
- If you are in an open area and feel your hair stand on end (an indication that lightning is about to strike), bend forward, put your hands on your knees, and crouch with feet together. It is recommended to remove all metal items. Do NOT lie flat on the ground.

Resuming Work (All Clear):
Management will continue to monitor the proximity of thunderstorms using Weather Bug or NOAA and will use local observations to make an informed decision to determine the appropriate time to resume work. Management may then allow activities to resume after 30 minutes of no detected lightning strikes within a 10-mile radius of the site. Crew members will then be notified that the lightning threat has ended and when work can resume.

5.8 Tornadoes, High Winds, and Hail

Tornados are typically formed when cold dry air associated with a cold front, clashes with a warm and moist air mass. Tornados can generate wind speeds approaching 300 miles per hour and travel distances over 100 miles. The damage from a tornado is a result of the high wind velocity and wind-blown debris.

National Weather System Alerts: Tornadoes

Tornado Watch
Issued by the National Weather Service when conditions are favorable for the development of tornadoes in your area and close to the watch area. Remain alert for approaching storms. Listen to local news for further developments.

Tornado Warning
A warning is issued when a tornado has been sighted or indicated by weather radar. Signs of an imminent tornado include:

- Strong persistent rotation in the cloud base.
- Whirling dust or debris on the ground under a cloud base. An approaching cloud of debris can mark the location of a tornado even if a funnel is not visible.
- Hail or heavy rain followed either by dead calm or a fast, intense wind shift.
- Loud, continuous roar or rumble which does not fade in a few seconds.
- Small, bright, blue-green to white flashes at ground level (particularly at night) near a thunderstorm.
- Tornadoes generally occur near the trailing edge of a thunderstorm. It is not uncommon to see clear, sunlit skies behind a tornado.

Tornado Actions
Mobile units are particularly vulnerable. A mobile unit can overturn very easily, even if precautions have been taken to tie down the unit. When a tornado warning is issued:

- Take shelter in a building with a strong foundation. Go to the basement of a building or an inside hallway at the lowest level.
- Avoid places with wide-span roofs such as auditoriums, cafeterias, large hallways, or shopping malls.
- Get under a piece of sturdy furniture such as a workbench, or heavy table or desk, and hold on to it.
- Use your arms to protect your head and neck.
- If time permits, secure outdoor objects on the site that could blow away or cause damage or injury.
- Take light objects inside.
- If outdoors, get inside a building if possible. If shelter is not available or there is no time to get indoors, lie in a ditch or low-lying area or crouch near a strong building.
- Be aware of the potential for flooding.
- Use your arms to protect your head and neck.

If in a vehicle:

- Never try to outdrive a tornado in a car or truck. Tornadoes can change direction quickly and can lift a car or truck and toss it through the air.
- Get out of the car immediately and take shelter in a nearby building. If there is no time to get indoors, get out of the car and lie in a ditch or low-lying area away from the vehicle.
- Be aware of the potential for flooding.

Following a Tornado

- After a tornado has passed, it is important to wait for emergency personnel to arrive.
- Account for all crew members.
- Carefully render aid to those who are injured.
- Do not try to move the seriously injured unless they are in immediate danger of further injury.
- Stay away from power lines and puddles with wires in them; they may still be carrying electricity!
- Watch your step to avoid broken glass, nails, and other sharp objects.
- Stay out of any heavily damaged buildings; they could collapse at any time.
- Do not use matches or lighters in case there are leaking natural gas pipes or fuel tanks nearby.
- Remain calm and alert and listen for information and instructions from emergency crews or local officials.
- If it can be done safely, take pictures of the damage to the site and contents for insurance purposes.

High Winds

High winds can be associated with extreme weather phenomena including thunderstorms, tornadoes, hurricanes, and high- and low-pressure systems. Potential hazards include:

- Flying debris
- Dust
- Possibility of people being swept off their feet.
- Equipment can be blown over and carried for a distance.
- Eye injuries

High Wind Actions

- Activate the emergency action plan.
- Remove all crew from elevated equipment.
- Lower all aerial equipment.
- Tie down and secure all loose equipment.
- When instructed, seek refuge from the winds at a pre-determined safe area.
- Be aware and protect your eyes from potential injury.
- Do not attempt to return to the area until management has given an "all clear" signal.
- Lower all aerial lifts (scissor lifts, boom lifts, etc.) and cranes to ground level, as Manufacturers mandate that aerial lifts and other similar equipment are not to be operated when winds exceed 25 mph. Check your equipment-specific guidelines in the owner's manual or manufacturer's recommendations, bulletins, or equivalent.
- Be aware that many of the same precautions (e.g., eye protection and securing equipment) can also apply to man-made wind effects such as rotor wash from airplanes or helicopters and large diameter fans.

Large Hail

Hail is usually associated with thunderstorms and is caused by freezing rain that can become very large.

5.9 Flash Floods

With the exception of fire, floods are the most common and widespread of all natural disasters. Flash floods usually result from intense storms producing large amounts of rain within a brief period. Flash floods occur with little or no warning and can reach a full peak in only a few minutes.

National Weather System Alerts: Flash Floods

Flash Flood Watch

A watch is issued when developing hydrologic conditions are favorable for flash flooding in and close to the watch area. When a watch is issued, be aware of potential flood hazards and the topography of your

surroundings. Those in the affected area should be ready to take quick action if a flash flood warning is issued or flooding is observed.

Flash Flood Warning
A warning is issued when flash flooding is in progress, imminent, or highly likely. Those in low areas and near small streams should leave for higher ground. Water is expected to rise rapidly. Also, be extremely cautious driving, as low areas may be washed out. Flash Flood Warnings can be issued without a Flash Flood Watch in effect.

Flash Flood Actions
The best response to any signs of flash flooding is to move immediately and quickly to higher ground.

- Cars can be easily swept away in just two feet of moving water.
- If floodwaters rise around a car, it should be abandoned. Passengers should climb to higher ground.
- Avoid walking through floodwaters.
- If it is moving swiftly, even water only 6 inches deep can sweep you off your feet.
- If advised to evacuate, do so immediately.

Following a Flash Flood
Flood dangers do not end when the water begins to recede. Do Not return to the site until authorities indicate it is safe to do so. Stay out of buildings if floodwaters remain around the building.

5.10 Hurricanes

Hurricanes (tropical cyclones) or tropical storms are large slow-moving storm systems that can pack very high winds (up to and exceeding 200 mph sustained winds) and very heavy rains over an area that can exceed several hundred miles. Hurricanes and tropical storms can generate local flooding and spawn tornados. Hurricanes can originate in the Atlantic Ocean, Gulf of Mexico, and Pacific Ocean. Unlike tornadoes, hurricanes and tropical storms generally have several days of advance notice and the storm path can be predicted. These storms or their impacts can reach far inland. The Atlantic Hurricane Season lasts from June 1 to November 30.

National Weather System Alerts: Hurricanes

Hurricane Watch
Issued by the National Weather Service, a hurricane watch indicates that hurricane conditions (sustained winds of 74 mph or higher) are possible within the specified area within 48 hours.

Hurricane Warning
Issued by the National Weather Service, a hurricane warning indicates that hurricane conditions (sustained winds of 74 mph or higher) are expected within the specified area within 36 hours.

Hurricane Actions
The possibility of severe weather, including hurricanes, must be considered by production and/or department management in developing an Emergency Action Plan (EAP) for every individual job site. This plan should be posted in highly visible areas and communicated to all crew members. The primary consideration is to identify a suitable shelter location. It is important to coordinate with hotels or venues to determine the best place for affected employees to stay safe during a storm, which will likely be a convention/conference room with food and water provided.

If a Hurricane Warning is issued for your area, the following steps must be taken.

- Local weather should be monitored continuously, using online sites such as NOAA's National Hurricane Center, Weather Bug, etc.
- Create a list of employees with contact information and emergency contact(s).

- Tie down any wall form or dome form towers directed by the Project Management Team.
- Power down all office equipment prior to leaving the site.
- Office Trailers: The Superintendent and crew must secure the trailer with storm straps and soil anchors.
- Secure all pumps and generators to FEL to help weigh them down.
- Fill all mobile equipment with fuel.
- Portable toilets must be tied down.
- Full trash containers must be pulled and dumped.
- Crane booms must be lowered, and outriggers extended.
- All lumber must be stacked and secured with a minimum 1/2" rope, banding strap, or similar means.
- Small construction equipment, building materials, or debris that cannot be placed inside a secure structure shall be protected from wind using tie-downs.
- All temporary structures such as tents, tarps, etc. shall be dismantled and/or removed.
- Any other materials or possible flying objects should be secured to prevent damage.
- Strap down all large fuel drums with soil anchors.
- Check all tires for VMAP, push bases, and lock wheels into place.
- Tie the top of VMAP push bases to the tank at heights directed by Project Management Team and approved drawings
- Monitor local news stations and visit the NOAA National Hurricane Center for storm updates. For the latest storm information, visit http://www.nhc.noaa.gov.
- Determine potential evacuation routes and establish a safe location to evacuate. Follow the directions of the Project Management Team and evacuate well in advance of the hurricane's arrival. When evacuating, drive defensively, avoid driving during the storm, and do not attempt to drive through flooded roadways. Heavy rains can significantly reduce visibility and increase the time needed to stop your vehicle.
- Create a Disaster Supply Kit to include enough necessities to last 3-7 days. The kit should include but not limited to:
    - Water - At least 1 gallon per person per day.
    - Food - Non-perishable packaged or canned food/juices, snack foods.
    - Non-electric can opener
    - Clothing - Seasonal clothing, rain gear, and sturdy shoes.
    - First Aid Kit, medicines, and prescription drugs (2-week minimum supply)
    - Flashlight and batteries
    - Battery-operated radio and/or NOAA weather radio.
    - Fully charged cell phone, phone chargers, and a traditional (not cordless) telephone set.
    - Cash on hand. Small bills and credit cards. Banks and ATMs may not be available for extended periods.
    - Keys
    - Vehicle fuel tanks filled.

  For more disaster supply preparedness and tips, visit https://www.weather.gov/wrn/hurricane-supplies or any state or local website.

Following a Hurricane

- Help injured or trapped persons.
- Give first aid when appropriate.
- Do not try to move the seriously injured unless they are in immediate danger of further injury.
- Call for help.
- Account for all crew members.
- Turn on the radio or television to get the latest emergency information.
- Stay out of damaged buildings.
- Leave a building if you smell gas or chemical vapors/fumes.

- If it can be done safely, take pictures of the damaged structures, equipment, and contents for insurance purposes.

Safety Briefing

All crew members shall be briefed on emergency action planning, severe weather requirements, evacuation, shelter-in-place (safe refuge areas), and the risks associated with working in inclement weather. Crew members must know actions to be taken before, during, and after severe weather events such as thunderstorms, high winds, lightning, tornadoes, hurricanes, or other environmental conditions that could threaten the safety of crew members or damage equipment.

5.11 Accident Occurrences and Reporting

All injuries requiring first-aid or medical treatment, regardless of severity, shall be reported to the Foreman/Superintendent.

Responsibilities:

- Employees
  - All injuries must be reported to the immediate supervisor immediately.
  - Injury treatment must be directed through Company-appointed physicians or clinics, otherwise no claims will be paid.
  - Employees absent from work due to a job-related injury shall call their Superintendent daily. If the Superintendent is unavailable, the employee may contact the office.
  - Employees with job-related injuries shall advise their Superintendent of their medical status after each doctor's visit and provide applicable paperwork.
- Foreman
  - The Foreman is responsible for locating trained first-aid personnel to treat injured workers and determine if outside treatment is necessary.
- Superintendent
  - Must contact the HSE Department immediately.
  - Must make sure transportation for outside treatment of injured workers is available at all times.
  - If outside treatment is deemed necessary, the Superintendent will arrange for transportation to a treatment facility.

5.12 Procedures for Accidents with Serious Injuries

Notify the nearest emergency facility. Telephone numbers for emergency facilities will be located on the Site-Specific Safety Plan.

- Immediately direct first-aid personnel to the injured worker.
- If structural failure or collapse has occurred, secure the area, and remove injured personnel.
- First-Aid personnel shall stabilize the injured worker and prepare the worker for transportation.
- Information pertaining to accidents shall only be discussed with CROM management, OSHA, fire, police, and insurance investigators.

5.13 Accident Investigations and References

- All accidents will be investigated. All near misses, with the potential of causing lost-time injuries or illnesses, will also be investigated.
- The Superintendent and HSE Department shall be responsible for conducting the accident investigation.
- Incidents where serious damage to equipment or structure has occurred shall also be investigated.
- For each project, "Non-Medical" injuries are recorded on the First-Aid Log, no matter how small.

If further assistance is needed, please contact one of the individuals listed below.

Herman Adams HSE Director	Phone No: 352.299.3974
Felix Mancillas HSE Manager	Phone No: 352.514.9612
Leila Zarate HSE Regional Coordinator	Phone No: 352.454.0656
Sarah Hansen HSE Representative	Phone No: 352.646.5576
Jaime Taylor HSE Representative Job Servicing Facility	Phone No: 352.762.3896

5.14 Superintendent Accident Investigation

Accidents should be reported immediately and investigated. Near-miss incidents and accidents that only result in property damage should also be investigated.

When an employee is injured, the Superintendent must immediately provide first aid, obtain professional medical attention if necessary, and protect fellow employees and equipment. Only then begin to investigate the circumstances of the accident.

The Superintendent must use the provided Workers' Compensation packet to report any injuries. This packet contains significant information about an injury to help the Superintendent determine the situation's real cause and eliminate factors that can lead to a recurrence.

These procedures have been found particularly effective when investigating accidents.

- Go promptly to the scene of the accident.
- If possible, talk to the injured person, as well as any witnesses. Stress the need for facts, not placing responsibility or blame.
- Listen for clues in the conversations around you. Unsolicited comments often have merit.
- Encourage people to give their ideas for preventing accidents.
- Study possible causes - both unsafe conditions and unsafe practices.
- Converse with interested people about possible solutions. The problem may have already been solved by someone else.
- Write a report using the printed form provided, allowing for a narrative description.
- Follow up to ensure that conditions are corrected. If immediate correction is not possible, report to the HSE Department.
- Publicize any corrective action taken so that all can benefit. When following this procedure, keep these two points in mind:
    - Most accidents involve both unsafe conditions and unsafe actions.
    - The purpose of an accident investigation is the prevention of future accidents, not placing blame.

The Superintendent must investigate all potential causes, both hazardous conditions and human errors. It is important to conduct a thorough investigation without jumping to conclusions or premature judgments. In addition, the Superintendent must take this assignment to address unsafe acts and conditions. Too often,

excuses such as "The fellow failed to follow my instructions!" or "The man was just plain careless", are used when the real issue is a lack of proper instruction from the Superintendent in the first place.

Accident Checklist

The purpose of accident investigation is to identify the causes of the accident, thereby allowing the development of resolutions to prevent recurrence. Every accident deserves an investigation.

Conducting the Interview

- Put the worker at ease. Explain the purpose of the investigation.
- Conduct the interview(s) at the accident scene as soon as possible after the accident.
- Ask for the worker's account of events. Do not interpret remarks or assume anything.
- Ask only necessary questions.
- Repeat his/her version, exactly as given, to ensure that you have gotten all the facts.
- Do not editorialize.
- Close the investigation on a positive note and take the appropriate corrective action based on your findings.

Accident Facts

- About 85% of all accidents are caused by unsafe acts.
- About 15% of all accidents are caused by unsafe conditions.
- Every accident has multiple causes, both acts and conditions.
- When an accident has multiple causes, it is best to address the primary condition, as it will lead to a more permanent solution. Remember: correcting a condition is more manageable than correcting behavior.

CHAPTER 6

OSHA Inspections & Recordkeeping

Chapter 6 – OSHA Inspections and Recordkeeping

6.1 Introduction

The Occupational Safety and Health Administration (OSHA) is a federal agency whose purpose is to establish and regulate standards that are designed to create a safe and healthy work environment. Since the inception of the OSH Act in 1970, the injury rate in the construction industry has been reduced by 60 percent. It is our policy at CROM to strictly follow all OSHA, state, and local regulations and guidelines.

The purpose of this chapter of the CROM HSE Program is to inform Superintendents about OSHA inspection procedures and basic recordkeeping requirements.

6.2 Opening Inspection Conference

The OSHA Compliance Officer typically arrives at the job site without advance notice. This inspection is initiated as a result of:

- a fatality,
- a random compliance inspection, or
- an employee complaint.

Upon arriving at the job site, the OSHA Compliance Officer will present their credentials to the Superintendent. Once it has been verified that an OSHA Compliance Officer is present, the Superintendent should:

- Notify the Supervisor that an OSHA Compliance Officer is on the job site.
- The Supervisor shall perform an immediate inspection of their respective work areas to identify and correct any safety deficiencies.
- Log the Compliance Officer's name in the appropriate area of the OSHA Inspection Report Form.

The Compliance Officer has certain guidelines that they must follow.

- Identifies the purpose of the visit, whether it is the result of an accident, a complaint or to perform a complete (random) site inspection.
- Provide the Superintendent with a copy of the OSHA Construction Standards and the OSH Act Recordkeeping requirements.
- Request the Superintendent to select an employee representative to accompany the officer during the inspection.
- Perform the inspection during normal business hours.

6.3 Inspection Tour

- The route and duration of the inspection are determined by the Compliance Officer.
- The HSE Representative or Superintendent must accompany the Compliance Officer on the inspection tour.
- The Superintendent and employee representative shall cooperate but refrain from offering any unsolicited information to the Compliance Officer.
- Any imminent danger situation identified by the Compliance Officer must be corrected immediately. Unsafe acts and conditions pointed out by the Compliance Officer must be addressed while the officer is still present. This attention to correct or address a situation may not prevent a citation's issuance, but it demonstrates a sign of good faith.
- The Compliance Officer may take photographs of any potential violation. In such cases, the Superintendent should take photos from the exact locations as the Compliance Officer. If necessary, additional pictures should be taken to provide a clearer perspective.
- All measurements taken by the Compliance Officer must be double-checked by the Superintendent.

- The Compliance Officer may conduct interviews with employees. Do not engage in the conversation but make sure to note the employee's name and nature of the conversation.
- All equipment found to be in violation must be immediately taken out of service and tagged as needing repair.
- Never specify the duration that a non-compliant procedure or equipment has been in use.
- Once the inspection tour is completed, the Compliance Officer will identify apparent violations and the recommended citation type.

6.4 Closing Conference

- Any other noted violations will be pointed out during the closing conference.
- Discussion of action on the violations will be discussed between the Compliance Officer and Superintendent.
- The Compliance Officer will advise CROM management that citations will be issued as a result of the apparent violations. The Compliance Officer has no authority to assess penalties. Further research performed by the officer may result in additional citations.
- The Compliance Officer will advise CROM management that they have the right to contest any citation or penalty. This must be done in writing within 15 days from the receipt of the penalty and must be sent to the OSHA Area Director.
- The Superintendent will complete the OSHA Inspection Report Form, which must be immediately forwarded to the HSE Director.
- Those items found to be in violation of the standards will often have an abatement period established in which the same Compliance Officer will return to see if corrections have been made.
- Upon the departure of the Compliance Officer, the Superintendent immediately contacts the HSE Director by phone to discuss the inspection and any serious infractions.

6.5 Citations and Penalties

Violations noted during the inspection may result in citations being issued, with abatement periods established for correction of the deficiencies. All citations are issued by the OSHA Area Director.

Citations must be either paid or appealed unless other agreements can be made with the OSHA Area Director.

Each violation is to be posted in a conspicuous location where it can be observed by the employees. The citation must be posted for at least three days or until the violation is abated.

Types of Citations

- Willful: A willful violation is defined as a violation in which either:
  - The employer committed an intentional and knowing violation of the Act.
  - The employer knew that a hazardous condition existed and made no effort to correct it.
- Serious: A serious violation exists when a workplace hazard could cause an accident or illness which would most likely result in death or serious physical harm.
- Repeated: An employer may be cited for a repeated violation if that employer has been cited previously for a substantially similar condition and the citation has become a final order. A citation is viewed as a repeated violation if it occurs within three years, either from the date that the earlier citation becomes a final order or from the final correction date, whichever is later. For the purposes of determining whether a violation is repeated, the following criteria apply:
  - Non-fixed Establishments: For employers engaged in businesses having no fixed establishments, repeated violations are alleged based upon prior violations occurring anywhere within the same OSHA Area Office jurisdiction.
  - Other: A violation that has a direct relationship to job safety and health, but is not serious in nature, is classified as other.

Types of Penalties

Depending on the severity of a violation, citations may also carry a penalty (fine). Penalties must be paid even if the violation is abated. Penalties assigned depend upon the type of violation cited.

- Willful Violations: This violation will be classified as a serious or non-serious violation, and a factor "degree of willfulness" will be assigned. The maximum penalty for this type of violation is $129,336.00+.
- Serious Violations: All serious violations carry a penalty. These violations will be weighted, and the penalty can range up to $12,934.00+.
- Repeated Violations: These fines can result in imprisonment and fines up to $129,336.00+.
- Failure to Abate: These fines can range up to $12,934.00 per day.
- Reporting Fatality: Failure to report a fatality can result in fines up to $7,000.00.
- Posting Citation: Failure to post the citation can result in a fine of $3,000.00.
- Poster, 300 Log, or 300 Summary: Failure to post these required information documents can result in a fine of $1,000.00 per occurrence.

The most cited standards since 2023

- 1926.501 Fall Protection
- 1910.1200 Hazard Communication
- 1926.1053 Ladders
- 1910.134 Respiratory Protection
- 1926.451 Scaffolding
- 1910.147 Control of Hazardous Energy (Lockout/Tagout)
- 1910.178 Powered Industrial Trucks
- 1926.503 Training
- 1926.102 Protective Equipment
- 1910.212 Machine Guarding

6.6 Recordkeeping and Posting Requirements

Recordkeeping

Log and Summary of Occupational Injuries and Illness (OSHA Form 300)

- The Corporate Office is to maintain an OSHA Form 300 with all information pertaining to each recordable injury or illness. Every incident must be logged within six days of an injury or illness.
- Completed OSHA Form 300s must be retained in the Office for five years.
- These forms must be available for inspection and copying by representatives of the U.S. Department of Labor.
- The Totals Line is to be filled in every year and the information following the fold line shall be posted in a location where employee notices are posted. The form should be posted no later than February 1 and shall remain until April 30. (1904.32)
- If no injuries or illnesses occurred during the year, zeros are to be filled in the totals line and it shall be posted as specified above.

Posting Requirements

- OSHA Poster: The OSHA Poster informing employees of their protection and obligations under the Act must be posted for as long as the employer is in business.
- Emergency Phone Numbers: Emergency phone numbers must be listed and placed in strategic locations on the job site.
- OSHA Form 300: Must be totaled and posted no later than February 1 and must remain posted until April 30.
- Citations: All citations issued to the employer must be posted in a conspicuous place for three days. A notice of citation being contested must also be posted.

CHAPTER 7

Hazard Communication Program

Chapter 7 – Hazard Communication Program

7.1 Purpose (CFR 1926.59 Hazard Communication)

The purpose of this program is to ensure that all produced or imported chemicals are evaluated for hazards, and that information regarding their hazards is communicated to employers and employees. The transmission of hazard information is accomplished by following the comprehensive hazard communications program, which includes, but is not limited to, container labeling, safety data sheets (SDS), and employee training.

The federal requirements of this program will not be enforced, adopted, or superseded by any state or local program, except in states where a federally approved program has been established.

7.2 Hazardous Chemical Inventory Inclusions and Exclusions

Any quantity of a chemical located on a CROM job site will be included in the chemical inventory process.

Any chemical that presents a physical or health hazard is considered hazardous.

- Physical Hazard: combustible liquid, compressed gas, explosive, flammable, oxidizer, organic peroxide.
- Health Hazard: carcinogens, toxic or highly toxic agents, toxins, irritants, corrosives, sensitizers, hepatotoxin, nephrotoxin, neurotoxin, blood/hematopoietic toxins, respiratory toxins, reproductive toxins, cutaneous hazards, eye hazards.

The following substances *are exempt* from labeling requirements:

- Pesticides
- Food, food additives, drugs, veterinary supplies
- Distilled spirits
- Consumer products covered by other regulations

The following items *are completely exempt* from hazardous chemical inventory requirements:

- Tobacco and related products
- Wood or wood products, but not chemicals used to treat wood
- Manufactured items that are stable in their typical use and used without modification during construction.

7.3 Chemical Information Sheets

All chemicals on the project site must display manufacturer information on their labels. This information shall include:

- Name of product
- Chemical name
- Manufacturer's name and address
- Number of containers
- Container size
- Location on the project
- Product usage
- Identification number, if any
- Product warnings

Chemical Inventory

When determining the chemical classification, the following guidelines should be used:

- Hazardous Chemical: Any chemical that carries the manufacturer's warning on the container label, such as "Warning," or "This product is Hazardous to Your Health" is considered hazardous. Other chemicals are classified as hazardous if they are identified as such on the SDS.
- Non-Hazardous Chemical: Any chemical that does not have any warnings or meet hazardous chemical requirements, as established by the Hazardous Chemical Standards.
- Consumer Product: Any chemical defined as a chemical product and falls under the provisions of the Consumer Products Safety Commission will be classified as a consumer product as long as it is purchased and used for its intended purpose.

7.4 Safety Data Sheets (SDS)

The Hazard Communications Standard requires that all manufacturers and distributors of hazardous chemicals provide SDS sheets for each chemical supplied to their customers. It is important to note the following:

- Access to the SDS is to be available at the job site and at the home office. The sheets are provided as an informative document that shall be accessible to all CROM employees.
- If a manufacturer cannot provide or refuses to provide an SDS, a CROM representative shall notify OSHA in writing.
- The most important areas of the SDS are sections identifying "Health Hazards," "First-Aid," and "Protective Equipment".

Training and Information

Each employee will receive training on the use, handling, protection, and storage of all chemicals stored on the job site. This training will be included in the new employee orientation program and HazCom training module and will continuously be reviewed through Toolbox Meetings.

- Employee training will include:
    - How to detect exposure to chemicals
    - Health hazards of chemicals
    - Safe work practices
    - Required personal protective equipment
    - Use of SDS and where they are located

Detailed records of employee training will be maintained, including the date, instructor, and chemicals covered. These records will be filed with the HSE Department.

7.5 How Chemicals Enter Your Body

The four main paths chemicals can enter the body and their effects are:

- Inhalation: Chemicals can be absorbed through the lungs, irritate the nose, and throat, and travel through the bloodstream affecting other organs. Regardless of the chemical being used, the first line of defense is to use an approved respirator.
- Absorption: The skin is an effective barrier when exposed to many hazardous substances; however, damage to the skin, such as burns, blisters, chafing, and cracking can occur. Other chemicals can pass directly through the skin and enter the bloodstream. A group of solvents, such as gasoline and mineral spirits, are easily absorbed into the bloodstream through the skin. The best means of prevention when using these chemicals is to wear gloves and a long-sleeved shirt, if necessary. Safe hand cleaners should be made available so employees will not use thinners and spirits to remove residues from their hands, arms, etc.
- Ingestion: Chemicals can enter the body by accidentally swallowing them. Contamination of food and drink should be avoided and by washing hands before eating, drinking, or smoking, the worker can be protected from danger.
- Injection: Just as a doctor can inject medicine into the body with a shot, chemicals can be accidentally injected into the system. Anytime an employee is working around high-pressure equipment, hydraulics,

or compressed air, the potential for this type of injury exists. A precaution against this type of injury is to always be careful when in the presence of pressurized systems and the workers should never use compressed air to clean themselves off.

7.6 Chemical Facts

Paint Products

- Enamel
- Latex
- Lacquer
- Paint brush cleaner
- Paint remover
- Paint stripper
- Paint thinner
- Primer
- Turpentine

Hazard Description

- Paint products contain resins, solvents, and/or petroleum distillates that can cause skin and respiratory tract irritation. They can be harmful if ingested. Most paint products are flammable or combustible.
- Spray painting, even with “airless” spray equipment, generates paint mists and vapors. Spray paint equipment operators should wear respirators.
- When using solvents, paint strippers, and paints, good ventilation should be established and maintained. Ventilation should continue while the paint is drying and curing.
- Proper storage of paint products and supplies must follow established safety procedures to ensure a safe work environment and to prevent accidents.
- Paint removers may contain acetone, toluene, petroleum distillates, methanol, and methylene chloride, all of which can be damaging to skin tissue. Toluene, methanol, and methylene chloride are strong central nervous system depressants and should not be inhaled. When using paint removers, work outdoors if possible. If working outdoors is not possible, be sure to provide adequate ventilation.
- Turpentine is a common solvent found in workshops and storage areas, and is used for thinning oil-based paints, cleaning paint brushes, removing paint stains, and dissolving some adhesives and sealants. Turpentine poses a fire hazard.
- When dispensing or using these flammable liquids, be aware of the location of fire extinguishers and fire alarm. Do not store, use, or dispense near welding or open flames.
- Never use paints in confined spaces unless adequate ventilation and respiratory protection have been provided.
- Protect yourself from these chemicals by reading the labels and following the recommended precautions. Wear gloves and eye protection and avoid inhaling vapors and mist. Wash your hands and face thoroughly before eating, drinking, or smoking.
- Because of the variety of painting materials in use, there are many signs and symptoms of overexposure. Read the SDS for the product that you are using.

Solvents

- Acetone
- Alcohol
- Hexane
- Methyl ethyl ketone
- Mineral spirits
- Toluene
- Xylene

Hazard Description

Solvents are widely used in the construction industry. Workers encounter solvents directly, using them to clean up dry adhesive or to dilute (thin) other materials such as paint. In addition, solvents are encountered in an indirect fashion, as a component of frequently used construction chemicals such as adhesives, sealants, coatings, office supplies, and as a "carrier" in paints.

- Methyl ethyl ketone (MEK) is often found as a component of paint removers, cement, adhesives, and cleaning fluids. MEK is very flammable and is an eye irritant. It has a narcotic effect, causing dizziness or unconsciousness. Frequent, prolonged contact with skin will cause dry scaly skin or dermatitis.
- Acetone, often used as a cleaning agent, poses similar hazards to those described for MEK. Exposure to the solvents toluene and xylene can result in headache, dizziness, nausea, or convulsions.
- Frequent exposure to solvents such as heptane, hexane, and mineral spirits may cause dermatitis.
- Overexposure to alcohol solvents, such as ethanol and methanol, can cause respiratory and eye irritation, nausea, vomiting, headache, and drowsiness.
- Most solvents are flammable. When dispensing or using solvents, be aware of the location of fire extinguishers and fire alarms. Do not store, use, or dispense near welding or open flame.
- Protect yourself from these chemicals by reading the labels and following the recommended precautions. Wear gloves and eye protection and avoid inhaling vapors and mist. Wash your hands and face thoroughly before eating, drinking, or smoking.
- Because of the variety of solvents in use. There are many signs and symptoms of overexposure. Read the SDS for the product that you are using. The SDS will have specific information regarding the clean-up and disposal information for the product that is being used.

Abrasives

- Abrasive disk
- Abrasive belt
- Grinding wheel
- Sand, metal or glass shot
- Silica

Hazard Description

Abrasives are usually not considered hazardous because of their solid form. However, when abrasives are used in grinding, cutting, or sanding, small particles of the abrasive and its binder can chip off. In addition, the material in which the abrasive work is being performed can, and usually does, contribute to airborne particle contamination. Abrasive blasting operations can produce an inhalation hazard due to dust.

As a result, ventilation, equipment shielding, and personal protective equipment are recommended, and good personal hygiene techniques should be followed.

Labels on these products usually provide guidance regarding suggested personal protective equipment. Use this information or refer to the SDS for the product.

Masonry

- Concrete
- Lime
- Muriatic acid
- Sand

Hazard Description

- Muriatic acid, in undiluted form, is corrosive and irritating to the skin, eyes, and mucous membranes. Diluted muriatic acid, which is commonly used in cleaning concrete or brick, may cause mild eye, skin, and respiratory tract irritation. Use protective gloves and chemical goggles.
- Lime, used in concrete or mortar, is corrosive. It is a skin, eye, and mucous membrane irritant. Keep it off the skin and out of the mouth, eyes, nose throat, and lungs.
- Refer to SDS for emergency procedures, clean-up, and disposal information.

7.7 Revisions and Additional Information

REVISIONS

This program will be amended as changes in work operations, new materials or processes, or new information dictates.

FOR ADDITIONAL INFORMATION

- Consult the HSE Director for further assistance.
- Consult individual state procedures or requirements as necessary.

7.8 HAZARDOUS COMMUNICATION PROGRAM NOTIFICATION

The purpose of this letter is to inform you of CROM's Hazardous Materials Communications Program. Please read this letter carefully and sign at the bottom.

OSHA Standard 1926.59 states that CROM, as your employer, must inform you of the hazardous materials located in your workplace, how to handle them, and how to protect yourself from possible harmful effects of their use.

As your employer, we are required to:

- Post notices informing you of your rights under the law.
- Have access to a copy of the Safety Data Sheet (SDS) for each listed hazardous chemical found in your workplace.
- Provide instructions to you on the health effects of hazardous chemicals and how to use them safely.

Your rights under the law are:

- To be informed of hazardous materials present in the workplace.
- To have access to a copy of the Safety Data Sheet for each listed chemical found in your workplace.
- The right to instruction, at the time of employment and at least annually thereafter, on the adverse health effects of hazardous chemicals.

I have read my rights, or have had my rights explained, and understand them.

_____

Employee Signature Date

CHAPTER 8

Trench & Excavation Safety Procedures

Chapter 8 – Trench and Excavation Safety Procedures

8.1 Overview

Excavation is defined as any man-made cut, cavity, trench, or depression in the Earth's surface formed by earth removal and is one of the most hazardous activities in construction. Cave-ins pose the greatest risk and are more likely than some other excavation-related incidents to result in worker fatalities. The average weight of soil is 75 lbs/cf. A typical trench cave-in could result in 4.5 tons of earth falling on a trapped worker.

Trench and excavation safety is a very important component of this HSE Manual.

8.2 Excavation and Trench Safety

- A competent person must make decisions about the safety of excavation or trench design.
- A registered professional engineer must determine necessary protection systems for trenches over 20 feet deep and design required trench safety boxes or shoring.
- Before excavation is to start, an investigation of possible underground utilities must be conducted. The Utility Hotline number for the work area should be contacted at least 24 hours before excavation is scheduled to begin if there are questions about underground utilities. In addition, when excavating near existing buildings, it is important to consider adjacent structural stability. Underpinning may be used to stabilize an existing structure.
- An inspection of any excavations must be done by a competent person daily, at minimum, and following rainstorms.
- Employees are not permitted to work in a trench or excavation site that is found to be unstable, unsafe, or not meeting OSHA requirements.

8.3 Protective Systems

A protective system is required for any excavation that has the potential for a cave-in.

Protective systems include:

- Sloping - All excavations must be sloped at 1.5 horizontal to 1.0 vertical unless a shallower slope is required as noted in OSHA regulation 1926, Subpart P, Appendices B – Sloping and Benching or as required by a registered professional engineer.
- Shields - All shields must be designed by a professional engineer. No one shall be allowed inside a shield while it is being moved or transported under any circumstances.
- Shoring - Shoring must be designed by a registered professional engineer. Shoring must not interfere with the egress path of any person working around the shoring system.

8.4 Water

- An allowance must be made for the decrease in structural stability of wet or damp soil.
- Excavation sites must be kept as dry as possible through pumping or natural gravitational drainage techniques. Drainage and pumping systems shall be designed or approved by a registered professional engineer.
- Surface water should be diverted away from excavations whenever possible.
- Emergency power must be provided for pumps which must operate continuously to keep excavations dry.

8.5 Job Site Organization

- Excavation edges must be clearly marked and barricaded to prevent falls into the open excavation. Barricades should be placed a safe distance from the edge of the sloping walls to avoid a cave-in will not occur due to nearby foot traffic.
- Vehicles are to be prevented from driving or parking in areas near the excavation where an increased load or the vehicle's vibration on the soil may cause a cave-in. Barricades should be installed to prevent vehicular and equipment access.
- A minimum of two means of egress from excavations over 4 feet deep must be provided at least every 25 feet laterally. If an excavation is more than 100 feet wide, a minimum of two means of egress must be provided on either side of the excavation. A means of egress may be a stairway, ladder, or ramp. If the excavation is over 20 feet in depth, ramps, stairs, or mechanical personnel hoists must be provided.
- No hazardous materials or waste shall be stored near the edges of the excavation where it can fall or roll into the excavation site.

For further information, contact the HSE Department.

CHAPTER 9

Confined Space Procedures

Chapter 9 – Confined Space Procedures

9.1 Introduction

Confined spaces are classified into two types, Permit-Required Confined Spaces, and Non-Permit-Required Confined Spaces.

A confined space is defined by OSHA regulation for Construction 29 CFR 1926, Subpart AA, as "any space having a limited means of egress, which is subject to the accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere."

Any other confined space requires special protection for employees as described below.

9.2 Non-Permit-Required Confined Spaces

Confined spaces must be regularly evaluated to determine if a permit is necessary. Whenever conditions in a space change, the potential hazards should be re-evaluated. Typically, new construction sites do not have hazards that require a permit. However, when working in an existing plant, hazards should be evaluated to check for any toxic or flammable contaminants that could collect in a tank, or during a tank repair that has been in service.

- Safe egress must be provided for all confined spaces. The manhole on the tank serves this purpose, therefore access to the manhole must be kept clear.
- A competent person, the Superintendent, must supervise any work being carried out within a confined space. This person is responsible for evaluating hazards, monitoring worker entry and exit from the confined space, controlling the type of equipment and work being done, and minimizing risks.

9.3 Permit-Required Confined Spaces

All permit-required-confined spaces must be marked with a sign: DANGER---PERMIT-REQUIRED CONFINED SPACE---AUTHORIZED ENTRANTS ONLY

CROM requires employees to follow OSHA standards, which requires a safety program to:

- Permit space hazards must be identified and evaluated before and during entry into a confined space.
- Test and monitor the confined space for atmospheric hazards in the following sequence: oxygen, combustible gases for vapors, and toxic gases or vapors regularly, at intervals, depending on the probable hazards.
- Provide a means of preventing unauthorized entry.
- Specify acceptable entry conditions, isolate the permit space, provide barriers, verify acceptable entry conditions, purge, make inert, flush, or ventilate the permit space to eliminate or control hazards necessary for safe permit-space entry operations.
- Identify the job duties of employees.
- Provide, maintain, and require personal protective equipment for safe entry (e.g., testing, monitoring, ventilating, communications, and lighting equipment; barriers, shields, and ladders).
- At least one attendant trained in his/her duties must be posted outside the permit space whenever it is occupied. The attendant must not enter the confined space for any reason, including rescue.
- Operations must be coordinated when employees from more than one company are working together in a confined space.
- The attendant must be trained for rescue or emergency situations and is authorized to coordinate and implement these services as necessary.
- Permits are to be prepared, issued, and canceled by the Superintendent or an authorized representative of the Project Manager. The entry supervisor must sign the permits. Canceled entry permits should be

kept for at least one year. The permits are only valid for the specified time period and space indicated on the permit. The entry permit procedure will be reviewed and revised annually.
- Attendants monitoring multiple spaces must be prepared to respond to emergencies in one or more of the spaces.

9.4 Company Policy: Permit-Required Confined Spaces

- If hazardous conditions are detected, employees must immediately leave the confined space and access to the space must be blocked, using physical or graphic barriers.
- Subcontractors must be informed and trained regarding CROM and OSHA requirements for confined spaces, permits required, and safety and emergency procedures.
- Employees must be informed of the dangers regarding the entry and habitation of confined spaces and trained in safety procedures and methods that can be used to reduce hazards. Any employee may refuse entry into a confined space if there is reasonable doubt of personal safety.
- Entry permits must conform to OSHA standards and must include:
    - Test results and tester's signature.
    - The name and signature of the supervisor who is responsible for and authorizes entry.
    - Permit space name, names of authorized entrances, attendants, and entry supervisors.
    - The purpose for entry and any known hazards.
    - Methods to be used to reduce or eliminate hazards.
    - Emergency procedures, including names and telephone numbers.
    - Additional permits, special equipment, and procedures that may be required in special circumstances.

9.5 Emergency Procedures

- Entry to confined spaces will be prohibited unless rescue service personnel and equipment are available.
- All rescuers must know first-aid and CPR and at least one rescue member must have a current certification in both first-aid and CPR. Rescuers must also be trained in the hazards of confined spaces.
- Rescue training and practice rescue exercises must be performed regularly and at least annually.
- Entrants must wear a chest or full-body harness attached to a retrieval line unless a hazard is created by the harness or the retrieval line. The retrieval line must be attached to the mechanical retrieval device or a permanent point outside the permit space. A mechanical device must be available for personnel retrieval from a vertical permit space greater than 5 feet deep.
- SDS should be available to the medical facility treating an injured entrant if they are exposed to a substance for which an SDS is written and required on the work site.
- All NIOSH (National Institute for Occupational Safety and Health) guidelines related to health hazards must be followed at all times.

CHAPTER 10

Mobile Towers, Wall Form & Shoring

- ALL WORK ASSOCIATED WITH THIS SECTION IS TO BE DONE UNDER THE DIRECTION OF A COMPETENT PERSON - THE SUPERINTENDENT

- ALL EMPLOYEES MUST BE TRAINED BEFORE PERFORMING THIS WORK

10.1 General Guidelines for Scaffolding

- Frames must be set up on secure surfaces that will not settle when the frame is carrying the maximum load (Standard 1926.451 (a) (2)).
- Scaffolding and its components must be designed to carry four times the maximum intended load (Standard 1926.451 (a) (7)).
- All forms and shoring must be properly braced, so that all members remain level, plumb, square, and rigid.
- Planking (Standard 1926.451 (a) (10-14)).
    - Planking must be scaffold grade or equivalent.
    - Maximum permissible spans for 2" x 10" or wider planks are shown in the following table:

TABLE L-3

MATERIAL					
	Full Thickness Undressed Lumber		Nominal Thickness Lumber*		
Working Load (psf)	25	50	75	25	50
Permissible Span (ft)	10	8	6	8	6

* Nominal thickness lumber not recommended for heavy-duty use.

    - Planks 1" x 9" shall not span more than 4 feet, with a medium loading of 50 lbs/sf.
    - Planking must be overlapped a minimum of 12 inches or prevented from moving by nailing or wiring.
    - Planks must extend over their end supports at least 6 inches, but less than 12 inches.
- A ladder or other means of safe access must be provided (Standard 1926.451 (a) (13)).

10.2 General Guidelines for Mobile Towers

- The harness and retractable system are to be used for fall protection when working on all mobile equipment regardless of height.
- Tool baskets are to be used in lieu of toe boards, in accordance with the OSHA letter included in this section.
- Inspect all parts and connections as the unit is being assembled, then check for proper operation before use.
- All four corners shall be braced with prestressing wire or equivalent from the top of the tower to the opposite side of the base on each end to form an "X". Do not over-tighten.
- Inspect the shooting cage cable and safety catch daily when in use.
- Mobile Towers used on tanks taller than a 40' SWD shall be cabled to the tank.
- The weight of the base allows a 4:1 height-to-width ratio. To meet this requirement, extend the fifth wheel out, measuring from the center of the base to the fifth wheel, or cable the tower to the structure if this ratio cannot be met.
- Walkboards on the outrigger brackets shall be two (2) – 2" x 10"s wide with cleats at each end or equivalent; 2" x 6"s are not acceptable.

When Using the Horizontal Truss System on an Air-Powered Mobile Tower:

- The truss should be as level as possible to keep the weight of the truss from pushing the tower in or out.
- The work road should be consistent around the tank to keep the tower from moving back and forth.
- The connection between the truss and the top of the tower must allow movement so that the tower does not become stuck.
- Excessive movement is to be avoided; a cable must be used to limit the tower's top movement along the truss.
- Attach the cable to the truss and the tower's top header with enough slack to allow normal movement and no more.
- The cable is the safety connection to keep the tower from turning over, possibly due to an unusual situation.
- Extra weight should not be placed on the tower. Store the man-basket in the center of the tank when not in use.
- Tie material and air hoses to the tower to prevent them from falling in case of a connection failure.

10.3 General Guidelines for Wall Form (Shoring for Vertical Wall Support)

- All workers on the wall form working above 6 feet must wear a harness and retractable system for fall protection during erecting and dismantling of the system and hanging diaphragm.
- All parts and connections are to be inspected before use and as the work progresses. No "spring type" pin connectors are to be used. Use only toggle pins or 3/8" nuts and bolts for connecting the top and bottom of the coupler pin to the frames.
- Two access ladders, 180° apart, shall be installed as the work progresses and used for access.
- One run of 2' x 12" x 12' OSHA-approved laminated walkboards will be used circumferentially at each lift.
- Walkboards shall overlap a minimum of 12 inches at each end.
- If 4' or 5' frames are to be used, they must be placed at the bottom. This allows workers to move freely when working on the top of the wall.

10.4 Shoring

Spacing Shoring

CROM typically uses 4', 5', and 6' frames. Every frame has a different rung spacing. For safety reasons, Company policy requires the 6' frames at the top, 5' frames on the bottom, and the 4' frames on top of the 5' frames, or at the bottom if no 5' frames are used. This is necessary due to the irregular rung spacing. With the 5' and 4' frames at the bottom, the change in rung spacing while climbing will be at the bottom where there is no fall hazard.

Shoring Frame Examples:

Top

6'	6'	6'
6’	6'	6'
6’	6'	6'
6’	4'	6'
5’	5'	4'

Bottom

- If the towers are more than 3 frames high, make sure they are braced at this height before completing the tower.
- Make sure all crew members are using proper lifting techniques. Back injuries are common when erecting and dismantling towers.
- Inspect all ropes that are being used.
- Make sure harnesses are worn and retractables are hooked up when employees are performing work above 6 feet.

- If you are using a crane, it is crucial to brace the tower before releasing the crane if it is over 3 frames high. Never leave the tower unbraced at full height!
- Always use a tag line when lifting loads with a crane.
- Make sure the crane being used is certified and the operator is qualified.

A DETAILED PROCEDURE FOR CONSTRUCTING WALL FORM AND SHORING IS OUTLINED IN THE CONSTRUCTION MANUAL.

10.5 General Rules

- All personnel must be instructed on the rules, regulations, and hazards of the work.
- All personnel must be aware of and follow all the rules.
- Do not allow employees to work if they have an illness that affects their ability to work safely.
- Do not work in high winds.
- Do not work if surfaces are covered with snow or ice.
- Do not work in lightning storms.
- Be aware of the potential for heat exhaustion and sunstroke on hot days.
- Follow the Dome Form drawings for proper assembly.
- Inspect all equipment as it is being assembled.
- Do not use damaged, defective, or excessively rusted equipment.
- Inspect walkboards for saw cuts, holes, splits, etc.
- Use hand and tag lines if a crane is used to make lifts.
- Install required bracing and access ladders as the erection progresses.
- Secure loose materials and equipment.
- Watch for people walking below.
- Do not climb x-braces.
- Use fall protection at all times.

CHAPTER 11

Fall Protection

Chapter 11 – Fall Protection

11.1 Fall Protection Policy Statement

The purpose of this program is to ensure that employees can recognize and manage fall hazards to keep themselves safe. To achieve this, guidelines and requirements have been established for supervisors and employees to follow and uphold. Various hazards are associated with fall protection, and this program has been developed to assist in mitigating those hazards.

Standards

OSHA 29 CFR 1926 – Construction Standards

- 1926.451 General Requirements (Scaffolding)
- 1926.501 Duty to Have Fall Protection
- 1926.1052 Stairways
- 1926.1053 Ladders

Responsibilities

HSE Department

The HSE Department has the primary responsibility for the implementation and enforcement of the Fall Protection Program (FPP) and is responsible for the following:

- Developing, implementing, and evaluating the Fall Protection Program to ensure compliance.
- Reviewing hazards and incidents associated with fall protection equipment.
- Assist supervisors with employee training.

Supervisors

Supervisors in support and administrative areas are responsible for providing the necessary direction and support to ensure effective implementation of the Fall Protection Program for their work areas. Supervisors are responsible for the following:

- Comply with all Fall Protection Program procedures.
- Identify all fall hazards and activities in their workplace and implement preventative measures for these hazards.
- Ensure all affected employees attend and complete the required training.
- Ensure that all personal fall arrest or restraint systems are maintained in accordance with the manufacturer's specifications.
- Hands-on training for all fall protection equipment is required.
- Ensure employees are using all fall protective equipment in accordance with OSHA regulations.

Employees

Affected employees are responsible for the following:

- Comply with all Fall Protection Program procedures.
- Maintain all Personal Protective Equipment (PPE) required to work at heights.
- Inspect all fall protection equipment prior to use.
- Attend and complete all training requirements.
- Immediately report all damaged or defective fall protection equipment to the supervisor.
- Use all fall protection equipment in accordance with OSHA regulations.

11.2 Fall Protection Requirements

Construction Industry (29 CFR 1926)
All employees performing construction-type activities will be protected from falling from a surface 6 feet or more above a lower level. Scaffolds used during construction-type activity require fall protection to be used at 10 feet or more above a lower level.

In each of these requirements, the fall hazards must be evaluated to determine the preferable method to protect the employee. When considering what type of fall protection to use, the following solutions should be considered:

- Elimination of the fall hazard by bringing the work down to ground level
- Use of passive fall protection systems such as guard rails
- Fall restraint to prevent a person from reaching a fall hazard.
- Fall arrest which utilizes equipment to stop a fall after it occurs.
- Use administrative controls and work practices to signal or warn an employee of a fall hazard.

11.3 Construction Industry Fall Hazards

The following are identified construction industry fall hazards:

Aerial Lifts and Self-Powered Work Platforms
When working from all elevated mobile work platforms, body harnesses must be worn with twin self-retracting lifelines. The point of attachment must be the anchor point of installation designated by the equipment manufacturer.

Scissor lifts and telescoping lifts that can only move vertically do not require the use of a harness and lanyard as long as a proper guardrail system protects the work platform, and occupants do not stand on or above the guardrail system.

An employee cannot move an aerial lift while the boom is in an elevated working position and the operator is inside the lift platform.

Covers
Covers located in roadways and vehicular aisles shall be capable of supporting, without failure, at least twice the maximum axle load of the largest vehicle expected to cross over the cover.

All other covers must be capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time.

All covers must be secured when installed to prevent accidental displacement by the wind, equipment, or employees.

Dangerous Equipment
Each employee who is less than 6 feet above dangerous equipment must be protected from falling into or onto the dangerous equipment by guardrail systems or by equipment guards.

Each employee 6 feet or more above dangerous equipment must be protected from fall hazards by guardrail systems, personal fall arrest systems, or safety net systems.

Excavations
Each employee at the edge of an excavation 6 feet or more in depth shall be protected from falling by guardrail systems, fences, or barricades when the excavations are not readily seen because of plant growth or other visual barriers.

Each employee at the edge of a well, pit, shaft, and similar excavation 6 feet or more in depth shall be protected from falling by guardrail systems, fences, barricades, or covers.

Holes

Each employee on walking/working surfaces shall be protected from falling through holes (including skylights) more than 6 feet above lower levels by personal fall arrest systems, covers, or guardrail systems erected around these areas.

Each employee on a walking/working surface shall be protected from tripping in or stepping into or through holes (including skylights) by placing covers over the holes.

Each employee on a walking/working surface shall be protected from objects falling through holes (including skylights) by placing covers over the holes.

Leading Edge

Each employee who is constructing a leading edge 6 feet or more above levels shall be protected from falling by guardrails systems, safety net systems, or fall arrest systems.

- Exception: when the supervisor can demonstrate that it is infeasible or creates a greater hazard to use these systems, the supervisor shall develop and implement a fall protection plan that meets the requirements of OSHA 1926.502 (k).

Each employee on a walking/working surface 6 feet or more above a lower level where leading edges are under construction, but who is not engaged in the leading-edge work, shall be protected from falling by a guardrail system, safety net system, or personal fall arrest system.

Protection from Falling Objects

When an employee is exposed to falling objects, the supervisor shall have each employee wear a hard hat and shall implement one of the following measures:

- Erect toe boards, screens, or guardrail systems to prevent objects from falling from higher levels.
- Erect a canopy structure and keep potential fall objects far enough from the edge of the higher level so that those objects would not go over the edge if they were accidentally displaced.
- Barricade the area to which objects could fall, prohibit employees from entering the barricaded area, and keep objects that may fall far enough away from the edge of a higher level so that those objects would not go over the edge if they were accidentally displaced.

Work on Low-Slope Roofs

Each employee engaged in roofing activities on low-slope roofs, with unprotected sides and edges 6 feet or more above lower levels, shall be protected from falling:

- by guardrail systems, safety net systems, personal fall arrest systems, or
- a combination of warning line system and guardrail system, warning line system and safety net system, warning line system and personal fall arrest system, or warning line system and safety monitoring system.

On roofs 50 feet or less in width, the use of a safety monitoring system alone is permitted.

Steep Roofs

Each employee on a steep roof with unprotected sides and edges 6 feet or more above lower levels must be protected from falling by guardrail systems with toe boards, safety net systems, or personal fall arrest systems.

Unprotected Sides and Edges

Each employee on a walking/working surface (horizontal and vertical surface) with an unprotected side or edge 6 feet or more above a lower level must be protected from falling by using guardrail systems, safety net systems, or personal fall arrest systems.

Wall Openings

Employees who work on, at, above, or near wall openings (including those with chutes attached) where the outside bottom edge is 6 feet or more above lower levels, and the inside bottom edge is less than 39 inches above the walking/working surface must be protected from falling. Protection can be provided by using a guardrail system, a safety net system, or a personal fall arrest system.

11.4 Fall Protection Systems

One of the following systems must be in place whenever an employee is exposed to a fall hazard.

Guardrail Systems

The use of guardrail systems is considered a passive method of fall protection and is the preferred method for eliminating fall hazards.

Guardrails are needed at the edge of work areas 6 feet or more in height to protect employees from falling. This includes the edge of excavations greater than 6 feet in depth. Guardrail systems must meet the following criteria:

- Top rail is 42 inches, +/- 3 inches above the walking/working level.
- Mid rail is located midway between the top rail and the walking/working level.
- It is important to remember that the work is done at the working level. Someone working on a stepladder next to an edge may raise his/her working surface well above the walking surface.
- Both top and mid rails should be constructed of materials at least 1/4 inch in thickness or diameter. If wire rope is used for top rails, it needs to be flagged with a high-visibility material at least every 6 feet and can have no more than 3 inches of deflection.
- The top rail needs to withstand a force of 200 pounds when applied in any downward or outward direction.
- The mid rail needs to withstand a force of 150 pounds applied in any downward or outward direction.
- Toe boards are required for all guardrails on elevated walking or working platforms where employees working below are exposed to falling objects. Toe boards must be 4 inches in height and must be securely fastened.
- The system should be smooth to prevent punctures, lacerations, or snagging of clothing.
- The ends of the top rail shouldn't overhang the terminal posts, except when such overhang does not present a projection hazard.
- When a hoisting area is needed, a chain, gate, or removable guardrail section must be placed across the access opening when hoisting operations are not taking place.

Safety Nets

Safety nets must be installed as close as practical under the walking/working surface on which employees are working, but in no case more than 30 feet (9.1 m) below such level. When nets are used on bridges, the potential fall area from the walking/working surface to the net shall be unobstructed.

Safety nets shall extend outward from the outermost projection of the work surface as follows:

Vertical Distance from Working Level to Horizontal Plane of Net	Up to 5 feet (1.5 meters)
Minimum Required Horizontal Distance of Outer Edge of Net from the Edge of the Working Surface	8 feet (2.4 meters)

Vertical Distance from Working Level to Horizontal Plane of Net	More than 5 feet (1.5 meters) up to 10 feet (3 meters)
Minimum Required Horizontal Distance of Outer Edge of Net from the Edge of the Working Surface	10 feet (3 meters)
	More than 10 feet (3 meters) 13 feet (3.9 meters)

Safety nets must be installed with sufficient clearance underneath to prevent contact with the surface or structures below when subjected to an impact force equal to the drop test of this section.

Safety nets and their installations must be capable of absorbing an impact force equal to that produced by the drop test specified in this section.

Safety nets and safety net installations shall be drop-tested at the job site after initial installation and before being used as a fall protection system, whenever relocated, after major repair, and at six-month intervals if left in one place. The drop test must consist of a 400-pound bag of sand dropped into the net from the highest walking/working surface at which employees are exposed to fall hazards, but not from less than 42 inches above that level.

A drop test is not needed when: 1) the supervisor can demonstrate that it is unreasonable to perform the drop test required by this section, 2) the supervisor (or a designated competent person) certifies that the net and net installation is in compliance with the provisions of this section by preparing a certification record prior to the net being used as a fall protection system.

Safety nets must be:

- Inspected at least once a week for wear, damage, and other deterioration.
- Defective components must be removed from service.
- Safety nets must also be inspected after any occurrence which could affect the integrity of the safety net system. Materials, scrap pieces, equipment, and tools that have fallen into the safety net must be removed as soon as possible from the net and at least before the next work shift.
- The maximum size of each safety net mesh opening must not exceed 36 square inches, nor be longer than 6 inches on any side. The opening, measured center-to-center of mesh ropes or webbing, must not be longer than 6 inches. Further, all mesh crossings must be secured to prevent enlargement of the mesh opening.
- Each safety net (or section of it) must have a border rope for webbing with a minimum breaking strength of 5000 pounds.
- Connections between safety net panels shall be as strong as integral net components and must be spaced not more than 6 inches apart.

<u>Personal Fall Arrest Systems</u>

When an employee requires the use of personal fall protection equipment, they must employ another employee to render assistance when and if required.

The personal fall arrest system has three main components: the personal protective equipment the employee wears, the connecting devices, and the anchorage point. Prior to tying off to perform the work, a means of rescue in the event of a fall must be immediately available. All personal fall arrest system components must meet the requirements of the ANSI Z359 Standards.

The system must meet the following criteria for each component:

<u>Personal Protective Equipment</u>

- Full body harnesses are required. The use of body belts is prohibited.
- The attachment point of the body harness is the center D-ring on the back.

- Employees must always tie off at or above the D-ring of the harness except when using lanyards 3 feet or less in length.
- Harnesses or lanyards that have been subjected to an impact load must be destroyed.
- Load testing must not be performed on fall protection equipment.

11.5 Implementation of Fall Protection

Connecting Devices

This device can be a rope or web lanyard, rope grab, or retractable lifeline.

- Only locking snap hooks may be used.
- Horizontal lifelines will be designed by a qualified person and installed in accordance with the design requirements.
- Lanyards and vertical lifelines need a minimum breaking strength of 5000 pounds.
- The length of a single lanyard must not exceed 6 feet.
- The use of steel lanyards is prohibited.
- Lanyards may not be clipped back to themselves (e.g. around an anchor point) unless specifically designed to do so.
- If vertical lifelines are used, each employee will be attached to a separate lifeline.
- Lifelines need to be protected against being cut or abraded.

Anchorage

Secure anchor points are crucial when employees use fall arrest equipment. Campus buildings may already have suitable structures, such as steel beams (must meet the criteria for a secure anchor point), that can serve as secure anchor points. However, in other work locations, temporary or permanent anchors may need to be installed. As a minimum, the following criteria must be considered for each type of anchor point:

- Structure must be sound and capable of withstanding a 5000 pound static load.
- Structure/anchor must be easily accessible to avoid fall hazards during hook-up.
- Direct tying off around sharp-edged structures can reduce breaking strength by 70%; therefore, chafing pads or abrasion-resistant straps must be used around sharp-edged structures to prevent cutting action against safety lanyards or lifelines.
- Structures used as anchor points must be at the worker's shoulder level or higher to limit free fall to 6 feet or less and prevent contact with any lower level (except when using a self-retracting lifeline or 3-foot lanyard).
- Choose structures for anchor points that will prevent swing fall hazards. Potentially dangerous "pendulum" like swing falls can result when a worker moves horizontally away from a fixed anchor point and falls. The arc of the swing produces as much energy as a vertical free fall, and the hazard of swinging into an obstruction becomes a significant factor. Raising the height of the anchor point can reduce the angle of the arc and the force of the swing. Horizontal lifelines can help maintain the attachment point overhead and limit the fall vertically, which a qualified person should design.

Permanent Anchor Requirements

In addition to all the criteria listed above, the following points must be considered:

- Environmental factors and dissimilarity of materials can degrade exposed anchors.
- Compatibility of permanent anchors with employee's fall arrest equipment.
- Inclusion of permanent anchors into a Preventive Maintenance Program with scheduled annual re-certification.
- Visibly label permanent anchors.
- Roof anchors must be immediately removed from service and re-certified if subjected to fall arrest forces.

Reusable Temporary Anchors

- Reusable temporary roof anchors must be installed and used following the manufacturer's installation guidelines.
- Roof anchors must be compatible with the employee's fall arrest equipment.
- Roof anchors must be removed from service at the completion of the job and inspected prior to reuse, following the manufacturer's inspection guidelines.
- Roof anchors must be immediately removed from service and disposed of if subjected to fall arrest forces.

Complete System

Employees should not fall from a height greater than 6 feet or come into contact with a lower level. To prevent falls, calculate the worker's height, lanyard length, and elongation length of 5.5 feet. Using this formula, a six-foot worker would need a tie-off point at least 15.5 feet above the next lower level.

- A personal fall arrest system that was subjected to an impact needs to be removed from service immediately.
- Personal fall arrest systems must be inspected prior to each use, and damaged or deteriorated components must be removed from service.
- Personal fall arrest systems should not be attached to guardrails or hoists.

Warning Line System

The warning line shall be erected around all sides of the roof work area.

When mechanical equipment is not being used, the warning line shall be erected not less than 6 feet from the roof edge. When mechanical equipment is being used, the warning line shall be erected not less than 6 feet from the roof edge which is parallel to the direction of mechanical equipment operation, and not less than 10 feet from the roof edge which is perpendicular to the direction of mechanical equipment operation.

Points of access, material handling areas, storage areas, and hoisting areas shall be connected to the work area by an access path formed by two warning lines.

When the path to a point of access is not in use, a rope, wire, chain, or other barricade, equivalent in strength and height to the warning line, shall be placed across the path at the point where the path intersects the warning line erected around the work area or the path shall be offset such that a person cannot walk directly into the work area.

Warning lines shall consist of ropes, wires, or chains, and supporting stanchions erected as follows:

1. The rope, wire, or chain shall be flagged at not more than 6-foot intervals with high-visibility material.
2. The rope, wire, or chain shall be rigged and supported in such a way that its lowest point (including sag) is no less than 34 inches from the walking/working surface and its highest point is no more than 39 inches from the walking/working surface.
3. After being erected, with the rope, wire, or chain attached, stanchions shall be capable of resisting, without tipping over, a force of at least 16 pounds applied horizontally against the stanchion, 30 inches above the walking/working surface, perpendicular to the warning line, and in the direction of the floor, roof, or platform edge.
4. The rope, wire, or chain shall have a minimum tensile strength of 500 pounds, and after being attached to the stanchions, shall be capable of supporting, without breaking, the loads applied to the stanchions.
5. The line shall be attached at each stanchion in such a way that pulling on one section of the line between stanchions will not result in slack being taken up in adjacent sections before the stanchion tips over.

No employee shall be allowed in the area between a roof edge and a warning line unless the employee is performing roofing work in that area.

Mechanical equipment on roofs shall be used or stored only in areas where employees are protected by a warning line system, guardrail system, or personal fall arrest system.

11.6 General Fall Protection Rules

Inspection

The employee must inspect the entire personal fall arrest system prior to every use. A competent person will inspect the entire system in use at the initial installation and weekly thereafter. The visual inspection of a personal fall arrest system must follow the manufacturer's recommendations. Any components of a personal fall arrest system noted to be damaged must be removed from service immediately.

Webbing

Inspect the entire surface of the webbing for damage. Beginning at one end, bend the webbing in an inverted "U". Holding the body side of the belt toward you, grasp the belt with your hands 6-8 inches apart. This surface tension makes the damaged fibers or cuts easier to see. Watch for frayed edges, broken fibers, pulled stitches, cuts, burns, and chemical damage.

"D" Rings/Back Pads

Check "D" rings for distortion, cracks, breaks, and rough or sharp edges. The "D" ring should pivot freely. The "D" ring back pads should also be inspected for damage.

Attachment of Buckles

Note any unusual wear, frayed, or cut fiber, or distortion of the buckles.

Tongue/Grommet

The tongue receives heavy wear from repeated buckling and unbuckling. Inspect for loose, distorted, or broken grommets. Ensure that the webbing does not have any additional punched holes.

Buckle tongues should be free of distortion in shape and motion and should overlap the buckle frame and move freely back and forth in their socket. The roller should turn freely on the frame. Check for distortion or sharp edges.

Friction and Mating Buckles

Inspect the buckle for distortion. The outer bars and center bars must be straight. Pay special attention to the corners and attachment points of the center bar.

Lanyard Inspection Hardware

- Snaps: Inspect closely for hook and eye distortions, cracks, corrosion, or pitted surfaces. The keeper (latch) should set into the nose without binding and should not be distorted or obstructed. The keeper spring should exert sufficient force to firmly close the keeper. Keeper locks must prevent the keeper from opening when the keeper closes.
- Thimbles: The thimble must be firmly seated in the eye of the splice, and the splice should have no loose or cut strands. The edges of the thimble must be free of sharp edges, distortion, or cracks.

Self-Retracting Lanyard/Lifeline

- The lanyard housing must be inspected to ensure that casing bolts are tight and that there are no loose fasteners, missing parts, cracks or excessive wear or corrosion.
- Webbing must be inspected for cuts, nicks or tears as well as for any broken fibers, stitching or fraying.
- Steel lanyards should be inspected for cuts, fraying, broken wires and overall deterioration and excessive wear.
- Fittings are to be inspected for wear or cracks and obvious damage.
- Follow the manufacturer's recommendations for additional inspection tasks and for any requirements that the unit be sent to the manufacturer for periodic inspection.

11.7 Storage of Fall Protection Equipment

Fall protection equipment must be appropriately stored to prevent damage or aging of material.

Ladders

All ladders in use by employees will meet the following requirements:

- Only ladders made of other synthetic materials must be used where an electrical hazard exists.
- All ladders must be inspected daily before use.
- Ladders should be stored in such a way as to prevent damage from sagging, weather conditions, excessive heat, etc.
- If a ladder is found to be damaged and is deemed unsafe, it must be tagged "out of service", made inoperable, or removed from the job site.
- Ladders must not be left unattended in the upright position and should be removed once the worker has ascended the ladder.
- When setting up a portable ladder, be sure to set the ladder at the proper angle to the building (usually about 25% of the ladder's vertical height).
- Never lean a ladder against cables or wires of any type.
- Use the help of another worker to extend the ladder to the proper height and positioning.
- Be sure the locks are secure.
- When a climber is ascending the ladder, another worker should be used to stabilize the ladder by holding the sides and supporting the feet of the ladder.
- The climber should use the three-point method when climbing a ladder. This means that two hands and one foot or two feet and one hand should be in contact with the ladder at all times during the climb.
- Never carry tools up the ladder in one hand. Always use two hands to climb.
- Never climb a ladder from the side or underside.
- Never "walk" or "shift" a ladder while standing on it.

11.8 Training

Each employee who may be exposed to fall hazards must be trained to recognize them and follow procedures to minimize them.

Training consists of the following:

- Review of OSHA requirements for fall protection.
- Fall hazards in the work area.
- Correct procedures for erecting, using, maintaining, disassembling, and inspecting the fall prevention and protection systems.
- The proper use of fall protection equipment.
- Limitations of fall protection equipment.
- Receiving emergency assistance.

CHAPTER 12

Personal Protective Equipment

Chapter 12 – Personal Protective Equipment

Overview
Personal protective equipment, provided by CROM, includes head, hearing, eye, fall, and respiratory protection equipment worn to minimize exposure to a variety of hazards. *Protective equipment is not a substitute for safe work practices.*

12.1 Personal Protection Equipment Requirements

Head Protection
- Hard hats must be worn at all times while on the construction site and in all designated hard hat areas.
- All hard hats must meet American National Standards Institute (ANSI) standards for impact, penetration (ANSI Z89.1-1969), electric shock (ANSI Z89.2-1971), and hazards (OSHA Fact Sheet No. 92-08).
- All employees are required to maintain this personal protective equipment.

Foot and Leg Protection
- Protective footwear must be worn at all times, typically leather work boots with a protective toe providing impact and compression protection, as well as non-slip soles.
- The job site Superintendent will decide what footwear is appropriate for the job site as long as safety requirements are met.
- All employees must purchase and maintain their protective equipment.

Eye and Face Protection
- Safety glasses, goggles, or full-face protectors must be worn at all times.
- Special eye protection must be worn when welding or working near welding operations.
- All eye and face protective equipment must meet the requirements specified in ANSI Z87.1-1968, Practice for Occupational Educational Eye, and Face Protection (29 CFR 1926.102).
- CROM provides safety glasses, goggles, and other types of eye and face protection.

Hearing Protection
- Every effort should be made to eliminate or reduce noises at their source. Protective hearing equipment must be worn if noise sources cannot be eliminated or minimized to acceptable levels. These protective devices need to lower noise exposure to levels that are considered acceptable.
- Hearing protection is strongly recommended when using, or in the general vicinity of, the air pipe or vibrating screed, compressors, pumps, and sandblasting areas.
- CROM will provide all hearing protection equipment, and the employees must maintain the equipment in good working condition.

Respiratory Protection
Situations in which respirators must be used should be avoided whenever possible. Adequate ventilation or the substitution of non-toxic materials may make respiratory protection unnecessary.

Selection of respirators (29 CFR 1926.103)
- Consideration must include the chemical and physical properties of the hazardous material, the environment in which the respirator will be used, and the type of work that is being performed.
- Table 29 CFR 1926.103 E-4 should be used to select the appropriate type of respirator.
- Respirators must be kept clean and in good working condition at all times.
- Employees are to receive training prior to using any respiratory equipment.

- Before using respiratory equipment, an evaluation of the employee's fitness must be done according to guidelines developed by a licensed physician. Supervisors must also monitor employees using respirators to ensure their health.
- CROM will provide respirators as needed, and the employees must maintain the equipment in good working condition.

12.2 CROM's Respiratory Protection Program

General Information

Many common industrial operations result in the dispersal of contaminants into the surrounding work environment. Depending on the materials involved and the type of operation, prolonged or repeated exposure to such environments may be considered unsafe unless special precautions are taken.

Wherever feasible, it is our policy to control this dispersal of contaminants through engineering controls that may call for enclosing, isolating, or ventilating these operations. There are situations, however, when such methods may be inadequate or completely impractical. In these situations, personal respiratory protection must be utilized.

It is the responsibility of the Project Manager and HSE Department to decide when respirators will be required and what type(s) of respirators will be used.

Respiratory Protection Program

In every area where respiratory protection is utilized, there shall be an established respiratory protection procedure. The procedure shall clearly specify:

- Those job functions requiring the use of respirators and the type of respirator required.
- The procedure to be used in the assignment of respirators.
- The procedure to be used and responsibilities for the proper maintenance and care of respiratory equipment.
- Types of respirators required.

12.3 Types of Respirators

Generally, respirators tend to fall into three categories; air purifying, supplied air, and self-contained breathing apparatus. CROM primarily uses air purifying devices. There are four basic types of air purifying devices:

- Mechanical filter respirators, which trap airborne particles (dust, mist, and fumes), but permit air to pass through (including dust respirators).
- Chemical cartridge respirators, which provide protection (as specified on their labels) against certain gases and vapors in low concentrations.
- Combination chemical/mechanical filter respirators to provide protection in cases where exposure is both gaseous and particulate.
- Gas masks, which offer protection against gases and vapors in higher concentrations. Some of these devices can be equipped with mechanical filters to remove particulate contaminants as well.

Selection of Respirators

The correct respirator shall be specified using the following guidelines:

- General Considerations
    - The selection of a proper respirator for any given situation requires consideration of the following factors:
        - Nature of the Hazard: The chemical and physical properties and toxicity of the hazardous material.
        - Extent of the Hazard: The concentrations to which employees are exposed.
        - Work Requirements and Conditions: Length of time protection is needed, entry and exit times, and activity of the wearer.

Specific Requirements

- Approval
  - Respiratory devices selected for use shall have NIOSH/OSHA approval for protection against the hazard to which employees are exposed.
- Limitations
  - Respiratory devices will not be used beyond the limitations of the NIOSH approval.
  - In no instance should chemical cartridge respirators be used for exposures in excess of the threshold limit value for vapors that cannot be easily and safely detected by odor or vapors for which the cartridge was not specifically designed.
  - An air-supplied respirator operating in the positive pressure mode shall be used during operations requiring prolonged employee exposure to concentrations greater than five times the threshold limit value of a material and all operations resulting in employee exposure to ten times the threshold limit value of a material.

12.4 Assignment of Respirators

General Considerations

- Medical
  - Persons shall not be assigned to tasks requiring the use of respirators unless it has been determined that they are physically able to perform the work and use the equipment.
- Employee Training
  - Employees assigned respirators must be trained in their proper use and limitations.
- Respirator Fit Requirements
  - Respirators shall not be worn when conditions prevent a good face seal.
  - Conditions that may prevent a good face seal include facial hair or the absence of one or both dentures.

Maintenance and Care of Respirators

- Inspection
  - All respirators must be inspected routinely before and after each use by the employee to whom the respirator is assigned. This inspection shall include a check of the tightness of connections and the condition of the face piece, headbands, valve connecting tube and cartridges. Rubber or elastomer parts must be inspected for pliability and signs of deterioration. Defective respirators will be returned for replacement.
  - All respirators must undergo a thorough inspection at least monthly. This inspection and any necessary repairs must be completed by experienced persons with parts designed for the respirator.
- Cleaning and Disinfection
  - Respirators must be cleaned and disinfected as frequently as necessary to ensure that proper protection is provided for the wearer.
  - Respirators used by more than one person must be cleaned and disinfected after each use.
  - A respirator assigned to an employee for their exclusive use must be cleaned at least after each day's use by the employee.
  - Respirators shall be collected for thorough cleaning and disinfection at least monthly.
- Storage
  - All respirators should be contained in a clean air-tight container and stored in a safe place.

CHAPTER 13

Safety Training

Chapter 13 – Safety Training

Overview
Safety training is vital to CROM's safety planning since it provides the means to transmit information about hazards and hazard reduction methods to all employees. Training occurs continuously in both formal and informal settings.

13.1 Training Requirements

CROM provides employee training at no cost for all workplace safety and health-related hazards. This training is essential for new employees before assuming new job responsibilities, following an extended break, and periodically as required.

Employees receive formal training for the following safety requirements:

- Personal Protective Equipment (PPE)
- Hazard Communication / Safety Data Sheets (SDS)
- Blood-borne Pathogens
- Fall Protection
- Scaffold Use
- Confined Spaces
- Hearing Protection
- Respiratory Protection

13.2 Types of Training

The type of training selected depends on the material to be covered and the times and locations available to provide the training. Types of training include:

Tool-Box Meetings

- Toolbox meetings are held on the job site and are led by the Foreman or Superintendent. They are typically brief, lasting about 10 minutes, and focus on only one or two topics such as:
    - Upcoming work which may present new hazards
    - Recent near misses
    - Reviews of safety procedures
    - Analysis and discussion of the job site safety record

Class-Style Training
More formal training may be necessary for managers and workers who need detailed knowledge of safety procedures.

- OSHA 10-Hour Training
- OSHA 30-Hour Training
- CPR and First Aid Training

Other Types of Training
There are other methods to communicate the importance of safety, and an effort should be made to use a suitable one. Some examples would be:

- Emphasis on safety during regular meetings
- Posters and newsletters
- Texts, magazines, and manufacturer's literature

13.3 Recordkeeping

Maintaining good records of any safety training is important, both for company purposes and to meet regulatory requirements. Good records allow us to determine the effectiveness of safety training and ensure that everyone is receiving the necessary training.

Records of safety meetings or other training sessions include:

- Date and location of the training session.
- Who attended.
- Topics covered.

13.4 Evaluation of Training

It is important to periodically evaluate the training program to determine its effectiveness. The evaluations should include subjective feedback from employees and objective criteria such as accident and near-miss data.

13.5 HSE Committee

CROM operates in many states with multiple crews, making it difficult to have all the Health, Safety, and Environment (HSE) Committee representatives in one place at the same time to address safety concerns. However, there is an open line of communication from the employees to the President of the company, through which issues or concerns are addressed.

- Employees may directly address safety concerns or suggestions to their Superintendent, Project Manager, HSE Director, or President.
- Safety is a key topic of discussion, which is documented in the minutes of the monthly project manager meetings. If an employee has a relevant suggestion for the entire company, it should be communicated to a project meeting participant for discussion during the safety report at the meeting. A decision will be made regarding the suggestion, and the employee will be notified.
- Suggestions that solve a problem or make a method safer may be eligible for a $100 suggestion award.

The HSE Committee has several goals, some of which include:

- Establishing and maintaining a safe and efficient workplace environment.
- Assisting the company in complying with government standards regarding loss control matters.
- Integrating hazard control and safety into the day-to-day activity of all personnel.
- Reviewing injury and incident occurrences to provide management with recommended prevention measures to reduce injury rates.

13.6 HSE/Quality Control Programs

<u>HSE Program</u>
The primary purpose of CROM's HSE Program is to prevent accidents on the job. The program supports accident prevention by providing education, inspections, and incentives.

<u>Education</u>
Each crew receives a binder containing multiple safety-related topics the Superintendent can present and discuss during their site safety meetings.
A monthly HSE Awareness safety topic is distributed to all employees, including all crew members.

- As part of their job visit duties, the HSE team holds a crew meeting and presents safety information. These talks cover current safety issues and policies.
- Employee applications contain a review of basic company safety policies. As part of the application process, any new employee must sign an acknowledgment of the policies.

Inspections

The HSE staff or other company representatives conduct safety inspections of each job and submit a job visit report to the Project Manager.

Safety Requirements

- At the end of each workday, all crew members are required to sign a form stating that they have neither had an accident nor have they seen an accident that has not been reported. The purpose of this statement is to prevent off-the-job accidents from being reported on Monday as a previous work week accident.
- CROM's Drug Policy requires all individuals involved in a reportable accident to be tested for drugs or alcohol. The release form signed by employees during the application process allows the company to administer blood and urine tests on any employee involved in an accident, suspected of on-the-job drug or alcohol use, or suspected of being in a drug or alcohol-influenced state.

13.7 Drug Policy

The purpose of the Drug Policy is to ensure a safe work environment for CROM employees, free from the negative impacts of drug and alcohol abuse by employees. The use of drugs or alcohol on the job, or working under the influence of, is expressly forbidden by company policy. People and their property on the job are subject to search if reasonable suspicion exists that the individual is not abiding by the CROM Drug Policy.

- New employees must sign a release form giving CROM permission to conduct blood or urine tests under the conditions stated in the company policy.
- At the beginning of each job, Superintendents are instructed to contact a local clinic to set up testing procedures in the event tests are needed.
- Positive test results will result in disciplinary action against the individual.

CHAPTER 14

Lockout/Tagout Procedures

Chapter 14 – Lockout/Tagout Procedures

Overview

Lockout/Tagout is the process of isolating potentially dangerous energy when servicing or repairing machinery, equipment, tanks, etc. The end result is to prevent the "unexpected" energization or startup of machines or equipment or the release of stored energy that could cause injury.

14.1 Hazards

There are four basic types of hazards.

- Electrical: energized wires or cables.
- Hydraulic: liquid under pressure through pipes or hoses.
- Pneumatic: compresses air or pressurized gas or steam.
- Mechanical: energy from compressed springs or tensioning devices.

14.2 Protective Systems

The preferred method of protection is "lockout"; the device is physically locked. OSHA allows a tag *only* if the device cannot be locked.

Lock Requirements:

- The lock must be durable.
- All locks must be standardized and easily identifiable.
- Locks must be strong enough that they cannot be removed without extreme methods.
- All locks must be identified with the employee's name who installs and removes them.
- Every employee working on the project must use their OWN lock.

If tags must be used where locks are impractical, the following apply:

- Tags must be the same print and format throughout.
- They must be easy to read and understand.
- They must be attached so they cannot be removed accidentally.
- Tags must be attached with a one-time use tie that is self-locking and requires more than 50 pounds of force to pull it off.

14.3 Training

Lockout/tagout procedures are performed only by "authorized employees" trained in the hazards of the machines or equipment they are locking out. Only these authorized employees are permitted to remove locks or tags. Using any machines or equipment that are locked or tagged out is strictly prohibited.

14.4 Procedures

- Prepare for shutdown: Know the potential energy, identify hazards, and know the controls that isolate the hazards.
- Notify affected employees: Make the employees that use the machine or equipment aware of the lockout and the reason.
- Turn off the machine or equipment.
- Locate and isolate the energy sources: Release stored energy such as air pressure or hydraulic pressure.
- Lockout the switches or controls.

- Test the operating controls: Attempt to turn the machine on. Then be sure to return all controls to the "off" position.
- Check all electrical parts and circuits before working on the machine or equipment.
- Perform the service.

Lockout/Tagout procedures should be reviewed regularly.

14.5 Lockout/Tagout Removal

- Make sure the machine or equipment is clear of employees and tools.
- Reinstall all guards.
- Remove lockout/tagout devices.
- Turn on the energy.
- Verify and ensure the machine or equipment is working properly.
- Notify employees that the service is completed.

Finally, knowing if others have used the lockout/tagout procedure on a multi-employer site is important.

Additional information is available from the HSE Department.

CHAPTER 15

Electrical Safety

Chapter 15 – Electrical Safety

Overview
OSHA ground-fault protection rules and regulations have been determined necessary and appropriate for employee safety and health.

15.1 Employer Responsibilities

It is the employer's responsibility to provide either:

- Ground Fault Circuit Interrupters (GFCIs) on construction sites for receptacle outlets in use and not part of the permanent wiring of a building structure.

or

- A scheduled and recorded assured equipment grounding conductor program on construction sites, covering all cord sets, receptacles that are not part of the permanent wiring of a building or structure, and equipment connected by cord and plug that are available for use or used by employees.

15.2 Compliance

CROM complies with and implements Standard 1926.404(b)(2)(ii), which requires the use of Ground Fault Circuit Interrupters for all 15- and 20-ampere receptacle outlets on construction sites that are used by employees, except for the receptacles in the job office trailer. This means there is no need for an Assured Equipment Grounding Conductor Program.

15.3 General Rules

- Test GFCIs daily by pressing the "test" button.
- Make sure all cords have ground prongs.
- Check extension cords and cords on tools for wear and defects before each use.
- Repair or discard cords that are cut or have defective ends.
- Keep cords out of water.
- Protect cords that are running through work roads from traffic.
- Clearly mark a cord or tool "Do Not Use", or discard if it is known to be damaged.
- Every breaker in electrical panels must be clearly marked to indicate which circuit it operates.
- All panels must be fully enclosed with no exposed wiring. Empty breaker spaces on the circuit breaker panel must be covered.
- All switches and receptacles must have proper, unbroken cover plates.
- All switch or outlet boxes must be completely enclosed with no missing "knock outs".
- Be aware of any overhead power lines at the site. Contact the Project Manager or the HSE Department if there is a chance that you will be working within 20 feet of power lines.
- Be aware of any underground utilities before digging a trench or excavation.
- Inspect temporary power sources for GFCI protection and make sure they are in good working order.
- Use portable GFCI "pigtails" on all extension cords if a GFCI is not mounted in the outlet.

15.4 Rules for Working Near Overhead Power Lines

Hazard Assessments and Precautions for Inside the Work Zone
Before beginning equipment operations, the Work Zone must be:

- identified by marking the boundaries (such as with flags, or a device such as a range limit device or range control warning device) and prohibiting the operator from operating equipment past those boundaries, *or*

- the work zone is defined as the area 360 degrees around the equipment, up to the equipment's maximum working radius.

Determine if any part of the equipment, load line, or load (including rigging and lifting accessories), if operated up to the equipment's maximum working radius in the work zone, could get closer than 20 feet to a power line. If so, the employer must meet the requirements in either Option 1, Option 2, or Option 3, as follows:

- Option 1: Deenergize and ground. Confirm from the utility owner/operator that the power line has been de-energized and visibly grounded at the worksite.
- Option 2: 20-foot clearance. Ensure that no part of the equipment, load line, or load (including rigging and lifting accessories), gets closer than 20 feet to the power line by implementing the measures specified in this section.
- Option 3: Table A clearance (see below)

Determine the line voltage and the minimum approach distance permitted under Table A.

- Conduct a planning meeting with the equipment operator and other workers who will be in the area of the equipment or load to review the location of the power line(s) and the steps that will be implemented to prevent encroachment/electrocution.
- Voltage information. Where Option 3 of this section is used, the utility owner and/or operator of the power lines must provide the requested voltage information within two working days of the employer's request.

Table A – Minimum Clearance Distances	
Voltage (nominal kV, alternating current)	Minimum Clearance Distance (feet)
up to 50	10
over 50 to 200	15
over 200 to 350	20
over 350 to 500	25
over 500 to 750	35
over 750 to 1000	45
over 1000	Contact HSE Department

As established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution.

Note: The value that follows "to" is up to and includes that value. For example, over 50 to 200 means up to and including 200kV.

15.5 Operations Below Power Lines

General Rules

- No part of the equipment, load line, or load (including rigging and lifting accessories) is allowed below a power line unless the employer *has confirmed* that the utility owner/operator has de-energized, and the power line is visibly grounded at the work site.
- Power lines are presumed energized unless the utility owner and operator *confirm* that they have been and continue to be de-energized and that the power line is visibly grounded at the work site.
- Power lines are presumed to be uninsulated unless the utility owner/operator or a registered engineer who is a qualified person with respect to electrical power transmission and distribution, confirms that a line is insulated.

- When working near a transmitter or communication tower, where the equipment or materials being handled are close enough for an electrical charge to be induced, the transmitter must be de-energized, or the following precautions must be taken.
    - Ensure that no part of the equipment, load line, or load (including rigging and lifting accessories), gets closer than 20 feet to the power line by implementing the measures specified in this section.
    - Refer to Table A - Minimum Clearance Distances
- If tag lines are used, they must be non-conductive.

15.6 Training

Each operator and crew member assigned to work with equipment must receive training on the procedures to follow in the event of electrical contact with a power line. This training must include:

- Information regarding the danger of electrocution from the operator simultaneously touching the equipment and the ground.
- The importance of the operator's safety in remaining inside the cab except when there is an imminent danger of fire, explosion, or other emergency that necessitates leaving the cab.
- The safest means of evacuating from equipment that may be energized.
- The danger of the potentially energized zone around the equipment (step potential).
- The crew needs to avoid approaching or touching the equipment and the load while in the area.
- Safe clearance distance from power lines.
- Procedures to properly ground equipment and the limitations of grounding.
- Devices initially designed by the manufacturer as safety devices (see §1926.1415), operational aids, or to prevent power line contact or electrocution must meet the manufacturer's specified procedures for use and conditions when used to comply with this section.

This training must also include the employees who work as dedicated spotters so they can effectively perform their tasks, incorporating the relevant requirements of this section.

CHAPTER 16

Respirable Crystalline Silica Program

Chapter 16 – Respirable Crystalline Silica Program

16.1 Purpose

The Respirable Crystalline Silica Program aims to prevent and control the potential exposure to dangerous levels of respirable crystalline silica for employees that may result in occupational illnesses from construction or nearby construction activities on worksites. Exposure to respirable crystalline silica at hazardous levels can lead to lung cancer, silicosis, chronic obstructive pulmonary disease, and kidney disease. This program is designed to comply with the Respirable Crystalline Silica Construction Standard (29 CFR 1926.1153) established by the Occupational Safety and Health Administration (OSHA).

Crystalline silica is a common component of soil, sand, granite, and many other minerals, with quartz being the most common form. Activities such as chipping, cutting, drilling, grinding, or similar tasks involving crystalline silica materials can release respirable-sized particles of respirable crystalline silica. Many construction materials contain crystalline silica, including cement, concrete, asphalt, and pre-formed structures (such as inlets and pipes).

16.2 Scope

This program applies to all employees potentially exposed to respirable crystalline silica, covered by the OSHA Standard mentioned above. The OSHA Respirable Crystalline Silica Construction Standard applies to all occupational exposures in construction work, except where employee exposure remains below 25 micrograms of respirable crystalline silica per cubic meter of air (25 g/m) as an 8-hour time-weighted average (TWA) under any foreseeable conditions.

16.3 Responsibilities

CROM firmly believes that protecting the health and safety of our employees is everyone's responsibility. Responsibility begins with top-level management providing the necessary support to implement this program properly. However, all levels of the organization, including the following positions, share responsibility for this program.

HSE Department

- Conducts job site assessments for Silica-containing materials and performs employee Respirable Crystalline Silica hazard assessments in order to determine if an employee's exposure will be above 25 µg/m3 as an 8-hour TWA under any foreseeable conditions.
- Select and implement into the project's Exposure Control Plan (ECP) the appropriate control measures in accordance with the Construction Tasks identified in OSHA's Construction Standard Table 1; and potentially including, but not limited to, a written ECP, exposure monitoring, Hazard Communication training, medical surveillance, housekeeping, and others.
  Note: OSHA's Construction Standard Table 1 is a list of 18 common construction tasks along with acceptable exposure control methods and work practices that limit exposure for those tasks.
- Ensure that the materials, tools, equipment, personal protective equipment (PPE), employee training, and other resources required to fully implement and maintain the Respirable Crystalline Silica Program are in place and readily available.
- Ensure that Project Managers, Site Managers, Competent Persons, and employees, are educated in the hazards of Silica exposure and trained to work safely with Silica in accordance with OSHA's Respirable Crystalline Silica Construction Standard and OSHA's Hazard Communication Standard. Managers and competent persons may receive advanced training in these areas.
- Maintain written records of training (for example, proper use of respirators), ECPs, inspections (for equipment, PPE, and work methods/practices), medical surveillance (under lock and key), respirator medical clearances (under lock and key), and fit-test results.

- Conduct annual reviews (or more often if conditions change) of the effectiveness of this program and any active project ECPs that extend beyond a year. This includes a review of available dust control technologies to ensure these are selected and used when practical.
- Coordinate work with other employers and contractors to ensure a safe work environment relative to Silica exposure.

Project Manager

- Ensure all applicable elements of this Respirable Crystalline Silica Program are implemented on the project including the selection of a Competent Person.
- Assist the HSE Department in conducting job site assessments for silica-containing materials and perform employee respirable crystalline silica hazard assessments to determine if an ECP, exposure monitoring, and medical surveillance are necessary.
- Assist in the selection and implementation of the appropriate control measures in accordance with the Construction Tasks identified in OSHA's Construction Standard Table 1; and potentially including, but not limited to, a written ECP, exposure monitoring, Hazard Communication training, medical surveillance, housekeeping, and others.
- Ensure that employees using respirators have been properly trained, medically cleared, and fit-tested in accordance with the company's Respiratory Protection Program. This process will be documented.
- Ensure that work is conducted in a manner that minimizes and adequately controls the risk to workers and others. This includes ensuring that employees use appropriate engineering controls, and work practices, and wear the necessary PPE.
- Where there is a risk of exposure to Silica dust, verify employees are properly trained on the applicable contents of this program, the project-specific ECP, and the applicable OSHA Standards (such as Hazard Communication). Ensure employees are provided with appropriate PPE when conducting such work.

Competent Person and/or Site Manager (Superintendent, Foreman, etc.)

- Make frequent and regular inspections of job sites, materials, and equipment to implement the written ECP.
- Identify existing and foreseeable respirable crystalline silica hazards in the workplace and take prompt corrective measures to eliminate or minimize them.
- Notify the Project Manager and/or HSE Department of any deficiencies identified during inspections to coordinate and facilitate prompt corrective action.
- Assist the Project Manager and HSE Department in conducting job site assessments for silica-containing materials and perform employee respirable crystalline silica hazard assessments in order to determine if an ECP, exposure monitoring, and medical surveillance are necessary.

Employees

- Follow recognized work procedures (such as the Construction Tasks identified in OSHA's Construction Standard Table 1) as established in the project's ECP and this program.
- Use the assigned PPE in an effective and safe manner.
- Participate in respirable crystalline silica exposure monitoring and the medical surveillance program.
- Report any unsafe conditions or acts to the Site Manager and/or Competent Person.
- Report any exposure incidents or any signs or symptoms of Silica illness.

16.4 Definitions

If a definition is not listed in this section, please contact your supervisor. If your supervisor is unaware of what the term means, please contact the Competent Person or the HSE Department.

- Action Level: A concentration of airborne respirable crystalline silica of 25 µg/m3, calculated as an 8-hour TWA.

- Competent Person: An individual who is capable of identifying existing and foreseeable respirable crystalline silica hazards in the workplace and who has authorization to take prompt corrective measures to eliminate or minimize them.
- Employee Exposure: The exposure to airborne respirable crystalline silica that would occur if the employee were not using a respirator.
- High-Efficiency Particulate Air (HEPA) Filter: A filter that is at least 99.97 percent efficient in removing monodispersed particles of 0.3 micrometers in diameter.
- Objective Data: Information, such as air monitoring data from industry-wide surveys or calculations based on the composition of a substance, demonstrating employee exposure to respirable crystalline silica associated with a particular product or material or a specific process, task, or activity. The data must reflect workplace conditions closely resembling or with a higher exposure potential than the processes, types of material, control methods, work practices, and environmental conditions in the employer's current operations.
- Permissible Exposure Limit (PEL): The employer shall ensure that no employee is exposed to an airborne concentration of respirable crystalline silica in excess of 50 µg/m3, calculated as an 8-hour TWA.
- Physician or Other Licensed Health Care Professional (PLHCP): An individual whose legally permitted scope of practice (i.e., license, registration, or certification) allows him or her to independently provide or be delegated the responsibility to provide some or all of the particular health care services required by the Medical Surveillance Section of the OSHA Respirable Crystalline Silica Standard.
- Respirable Crystalline Silica: Quartz, Cristobalite, and/or Tridymite contained in airborne particles that are determined to be respirable by a sampling device designed to meet the characteristics for respirable-particle size-selective samplers specified in the International Organization for Standardization (ISO) 7708: 1995: Air Quality-Particle Size Fraction Definitions for Health-Related Sampling.
- Specialist: An American Board-Certified Specialist in Pulmonary Disease or an American Board-Certified Specialist in Occupational Medicine.

16.5 Requirements

Specified Exposure Control Methods

When possible and applicable, CROM will conduct activities with potential Silica exposure in a manner consistent with OSHA's Construction Standard Table 1. Supervisors will ensure each employee under their supervision and engaged in a task identified on OSHA's Construction Standard Table 1, will have fully and properly implemented the engineering controls, work practices, and respiratory protection specified for the task on Table 1 (unless CROM has assessed and limited the exposure of the employee to respirable crystalline silica in accordance with the Alternative Exposure Control Methods Section of this program).

16.6 OSHA Table 1 - Tasks Performed by CROM

The task(s) being performed by CROM, identified on OSHA's Construction Standard Table 1 are:

- 7 - Handheld and stand-mounted drills (including impact and rotary hammer drills)
- 10a & 10c - Jackhammers and handheld powered chipping tools when used outdoors.
- 10b & 10d - Jackhammers and handheld powered chipping tools when used indoors or in an enclosed area.
- 11 - Handheld grinders for mortar removal (i.e., tuckpointing)
- 12a - Handheld grinders for uses other than mortar removal for tasks performed outdoors only.
- 12b - Handheld grinders for uses other than mortar removal when used outdoors.
- 12c - Handheld grinders for uses other than mortar removal when used indoors or in an enclosed area.

Our wet shotcrete application has been monitored by air sampling. This was completed by industrial hygienists and shows CROM to be under actionable levels regarding the new OSHA standards. This sampling was completed for both inside and outside core wall applications and under the testing regulations.

Table 1: Specified Exposure Control Methods When Working With Materials Containing Crystalline Silica

Construction Task or Equipment Operation		Engineering and Work Practice Control Methods	Required Respiratory Protection	
			≤ 4 hour/shift	>4 hour/shift
1	Stationary masonry saws	• Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
2a	Handheld power saws (any blade diameter) when used outdoors	• Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
2b	Handheld power saws (any blade diameter) when used indoors or in an enclosed area	• Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
3	Handheld power saws for cutting fiber-cement board (with blade diameter of 8 inches or less) for tasks performed outdoors only	• Use saw equipped with commercially available dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency.	None	None
4a	Walk-behind saws when used outdoors	• Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
4b	Walk-behind saws when used indoors or in an enclosed area	• Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
5	Drivable saws for tasks performed outdoors only	• Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
6	Rig-mounted core saws or drills	• Use tool equipped with integrated water delivery system that supplies water to cutting surface. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None

Construction Task or Equipment Operation		Engineering and Work Practice Control Methods	Required Respiratory Protection	
			≤ 4 hour/shift	>4 hour/shift
7	Handheld and stand-mounted drills (including impact and rotary hammer drills)	• Use drill equipped with commercially available shroud or cowling with dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism. • Use a HEPA-filtered vacuum when cleaning holes.	None	None
8	Dowel drilling rigs for concrete for tasks performed outdoors only	• Use shroud around drill bit with a dust collection system. • Dust collector must have a filter with 99% or greater efficiency and a filter cleaning mechanism. • Use a HEPA-filtered vacuum when cleaning holes.	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
9a	Vehicle-mounted drilling rigs for rock and concrete	• Use dust collection system with close capture hood or shroud around drill bit with a low-flow water spray to wet the dust at the discharge point from the dust collector.	None	None
9b	Vehicle-mounted drilling rigs for rock and concrete	• Operate from within an enclosed cab and use water for dust suppression on drill bit.	None	None
10a	Jackhammers and handheld powered chipping tools when used outdoors	• Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact.	None	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
10b	Jackhammers and handheld powered chipping tools when used indoors or in an enclosed area	• Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact.	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
10c	Jackhammers and handheld powered chipping tools when used outdoors	• Use tool equipped with commercially available shroud and dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	None	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask

Construction Task or Equipment Operation		Engineering and Work Practice Control Methods	Required Respiratory Protection	
			≤ 4 hour/shift	>4 hour/shift
10d	Jackhammers and handheld powered chipping tools when used indoors or in an enclosed area	• Use tool equipped with commercially available shroud and dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask
11	Handheld grinders for mortar removal (i.e., tuckpointing)	• Use grinder equipped with commercially available shroud and dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism.	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask	Powered Air-Purifying Respirator (PAPR) with P100 Filters
12a	Handheld grinders for uses other than mortar removal for tasks performed outdoors only	• Use grinder equipped with integrated water delivery system that continuously feeds water to the grinding surface. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
12b	Handheld grinders for uses other than mortar removal when used outdoors	• Use grinder equipped with commercially available shroud and dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism.	None	None
12c	Handheld grinders for uses other than mortar removal when used indoors or in an enclosed area	• Use grinder equipped with commercially available shroud and dust collection system. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a	None	N95 (or Greater Efficiency) Filtering Facepiece or Half Mask

Construction Task or Equipment Operation		Engineering and Work Practice Control Methods	Required Respiratory Protection	
			≤ 4 hour/shift	>4 hour/shift
		cyclonic pre-separator or filter-cleaning mechanism.		
13a	Walk-behind milling machines and floor grinders	• Use machine equipped with integrated water delivery system that continuously feeds water to the cutting surface. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
13b	Walk-behind milling machines and floor grinders	• Use machine equipped with dust collection system recommended by the manufacturer. • Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. • Dust collector must provide the air flow recommended by the manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism. • When used indoors or in an enclosed area, use a HEPA-filtered vacuum to remove loose dust in between passes.	None	None
14	Small drivable milling machines (less than half-lane)	• Use a machine equipped with supplemental water sprays designed to suppress dust. • Water must be combined with a surfactant. • Operate and maintain machine to minimize dust emissions.	None	None
15a	Large drivable milling machines (half-lane and larger) for cuts of any depth on asphalt only	• Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust. • Operate and maintain machine to minimize dust emissions.	None	None
15b	Large drivable milling machines (half-lane and larger) for cuts of four inches in depth or less on any substrate	• Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust. • Operate and maintain machine to minimize dust emissions.	None	None
15c	Large drivable milling machines (half-lane and larger) for cuts of four inches in depth or less on any substrate	• Use a machine equipped with supplemental water spray designed to suppress dust. • Water must be combined with a surfactant. • Operate and maintain machine to minimize dust emissions.	None	None
16	Crushing machines	• Use equipment designed to deliver water spray or mist for dust suppression at crusher and other points where dust is generated (e.g., hoppers, conveyers, sieves/sizing or vibrating components, and discharge points). • Operate and maintain machine in accordance with manufacturer's instructions to minimize dust emissions.	None	None

Construction Task or Equipment Operation		Engineering and Work Practice Control Methods	Required Respiratory Protection	
			≤ 4 hour/shift	>4 hour/shift
		• Use a ventilated booth that provides fresh, climate-controlled air to the operator, or a remote control station.		
17a	Heavy equipment and utility vehicles used to abrade or fracture silica-containing materials (e.g., hoe-ramming, rock ripping) or used during demolition activities involving silica-containing materials	• Operate equipment from within an enclosed cab.	None	None
17b	Heavy equipment and utility vehicles used to abrade or fracture silica-containing materials (e.g., hoe-ramming, rock ripping) or used during demolition activities involving silica-containing materials	• When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions.	None	None
18a	Heavy equipment and utility vehicles for tasks such as grading and excavating but not including demolishing, abrading, or fracturing silica-containing materials	• Apply water and/or dust suppressants as necessary to minimize dust emissions.	None	None
18b	Heavy equipment and utility vehicles for tasks such as grading and excavating but not including demolishing, abrading, or fracturing silica-containing materials	• When the equipment operator is the only employee engaged in the task, operate equipment from within an enclosed cab.	None	None

16.7 Implementing Control Measures

When implementing the control measures specified in Table 1, CROM shall:

- Provide an exhaust means as needed for tasks performed indoors or in enclosed areas to minimize the accumulation of visible airborne dust.
- Apply water at flow rates sufficient to minimize the release of visible dust for tasks performed using wet methods.
- Ensure that the measures implemented include an enclosed cab or booth. The enclosed cab or booth shall:
    - Be maintained as free as practicable from settled dust.
    - Have door seals and closing mechanisms that work properly.
    - Have gaskets and seals that are in good condition and working properly.
    - Be under positive pressure maintained through continuous delivery of fresh air.
    - Have intake air that is filtered through a filter that is 95% efficient in the 0.3-10.0 µm range (e.g. MERV-16 or better)
    - Have heating and cooling capabilities.
- When an employee is performing multiple tasks listed in OSHA's Construction Standard Table 1 during a shift, and the total duration of all tasks combined exceeds 4 hours, the required respiratory protection for each task should be the type specified for more than 4 hours per shift. If the total duration of all tasks in Table 1 combined is less than 4 hours, the required respiratory protection for each task should be the type specified for less than 4 hours per shift.

16.8 Alternative Exposure Control Methods

Alternative Exposure Control Methods apply to tasks not listed in OSHA's Construction Standard Table 1, or where CROM cannot fully and properly implement the engineering controls, work practices, and respiratory protection described in Table 1.

CROM evaluates the exposure of each employee who is or may reasonably be expected to be exposed to respirable crystalline silica at or above the Action Level. This assessment is conducted in accordance with either the Performance Option or the Scheduled Monitoring Option.

Performance Option - CROM has assessed the 8-hour TWA exposure for each employee based on a combination of air monitoring data or objective data sufficient to accurately characterize employee exposures to respirable crystalline silica.

Scheduled Monitoring Option - CROM has performed initial monitoring to assess the 8-hour TWA exposure for each employee based on one or more personal breathing zone air samples that reflect the exposures of employees on each shift, for each job classification, and in each work area. Where several employees perform the same tasks on the same shift and in the same work area, CROM monitors a representative fraction of these employees. When implementing representative monitoring, CROM selects the employee(s) expected to have the highest exposure to respirable crystalline silica.

CROM ensures that all samples of respirable crystalline silica taken to satisfy the monitoring requirements of this program and OSHA were collected by a qualified individual (i.e., a Certified Industrial Hygienist) and that the samples were evaluated by a qualified laboratory (i.e. accredited to ANS/ISO/IEC Standard 17025:2005 with respect to Crystalline Silica analyses by a body compliant with ISO/IEC Standard 17011:2004 for implementation of quality assessment programs).

Within 5 working days of completing an exposure assessment, CROM will individually notify each affected employee in writing of the results or post the results in an appropriate location accessible to all affected employees.

16.9 Crystalline Silica

When observation of monitoring requires entry into an area where protective clothing or equipment is necessary due to workplace hazards, CROM will provide the observer with protective clothing and equipment at no cost. CROM also ensures that the observer wears the clothing and equipment provided.

After completing air monitoring, CROM determines its method of compliance based on the monitoring data and the hierarchy of controls. CROM will use engineering and work practice controls to reduce and maintain employee exposure to respirable crystalline silica to at or below the Permissible Exposure Limit (PEL) unless it can be demonstrated that such controls are not feasible. Wherever such feasible engineering and work practice controls are not sufficient to reduce employee exposure to or below the PEL, CROM will nonetheless use them to reduce employee exposure to the lowest feasible level and will supplement them with the use of respiratory protection.

In addition to the requirements of this program, CROM will comply with other programs and OSHA standards (such as 29 CFR 1926.57 [Ventilation]) when applicable. This includes situations where abrasive blasting is conducted using blasting agents containing Crystalline Silica, or when abrasive blasting is conducted on substrates that contain Crystalline Silica.

16.10 Control Methods

CROM will implement control methods consistent with OSHA's Construction Standard Table 1. In instances where Table 1 is not followed, other control methods, such as engineering controls, work practices, and respiratory protection must be employed to minimize worker exposure to Silica. Listed below are control methods to use when Table 1 is not followed:

- Shotcrete: SPF-rated dust masks are available to all employees voluntarily. Based on prior air sampling, employees are not required to wear dust masks. However, when feasible, employees may rotate positions during shotcrete intervals of the project to limit exposure time.
- Grinding/Chipping/Drilling: All precautions under the OSHA's Table 1 shall be followed.
- Sandblasting: Shall only be performed by trained individuals who have completed all necessary medical evaluations and fit testing of respirator equipment. Employees must also follow all precautions designated by the manufacturer of the equipment being used and wear the necessary PPE.

16.11 Respiratory Protection

Where this program requires respiratory protection, CROM provides each employee with a respirator that complies with the company's Respiratory Protection Program requirements and the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Respiratory protection is required as specified by the OSHA Construction Standard Table 1. Protection is also required for tasks not listed in Table 1 or where the company has not fully implemented engineering controls, work practices, and respiratory protection described in Table 1. Situations requiring respiratory protection are:

- Where exposures exceed the PEL during periods necessary to install or implement feasible engineering and work practice controls.
- Where exposures exceed the PEL during tasks, such as certain maintenance and repair tasks, for which engineering and work practice controls are not feasible.
- During tasks for which an employer has implemented all feasible engineering and work practice controls and such controls are not sufficient to reduce exposures to or below the PEL.

16.12 Housekeeping

CROM does not allow dry sweeping or dry brushing where such activity could contribute to employee exposure to respirable crystalline silica unless wet sweeping, HEPA-filtered vacuuming, or other methods that minimize the likelihood of exposure are not feasible.

CROM does not allow compressed air to be used to clean clothing or surfaces where such activity could contribute to employee exposure to respirable crystalline silica unless:

- The compressed air is used in conjunction with a ventilation system that effectively captures the dust cloud created by the compressed air.
- No alternative method is feasible.

16.13 Written Exposure Control Plan

When employee exposure on a construction project is expected to be at or above the Action Level, this written Exposure Control Plan (ECP) will be implemented. This ECP contains the following elements:

- A description of the tasks in the workplace that involve exposure to Respirable Crystalline Silica.
- A description of the engineering controls, work practices, and respiratory protection used to limit employee exposure to Respirable Crystalline Silica for each task.
- A description of the housekeeping measures used to limit employee exposure to Respirable Crystalline Silica.
- A description of the procedures used to restrict access to work areas, when necessary, to minimize the number of employees exposed to Respirable Crystalline Silica and their level of exposure, including exposures generated by other employers or sole proprietors.
- The written ECP will designate a Competent Person to make frequent and regular inspections of job sites, materials, and equipment to ensure the ECP is implemented.
- The written ECP will be reviewed at least annually to evaluate the effectiveness of it and update it as necessary. Having said this, ECPs are project-specific, and most project durations do not exceed a year. The written ECP will be readily available for examination and copying, upon request, to each employee covered by this program and/or ECP, their designated representatives, and OSHA.

16.14 Medical Surveillance

Medical surveillance will be made available for each employee who is required to use a respirator for 30 or more days per year due to their respirable crystalline silica exposure. Medical surveillance (i.e. medical examinations and procedures) will be performed by a physician or licensed health care professional (PLHCP) and provided, at no cost to the employee, at a reasonable time and place.

CROM makes available an initial (baseline) medical examination within 30 days after initial assignment unless the employee has received a medical examination that meets the requirements of the OSHA Respirable Crystalline Silica Construction Standard within the last three years. The examination shall consist of:

- A medical and work history, with emphasis on past, present, and anticipated exposure to respirable crystalline silica, dust, and other agents affecting the respiratory system, in addition to any history of respiratory system dysfunction, including signs and symptoms of respiratory disease (e.g., shortness of breath, cough, wheezing), history of tuberculosis, and smoking status and history.
- A physical examination with special emphasis on the respiratory system.
- A chest X-ray (a single posteroanterior radiographic projection or radiograph of the chest at full inspiration recorded on either film [no less than 14 x 17 inches and no more than 16 x 17 inches] or digital radiography systems) interpreted and classified according to the International Labor Office (ILO) International Classification of Radiographs of Pneumoconiosis by a NIOSH-certified B Reader.

- A pulmonary function test to include forced vital capacity (FVC) and forced expiratory volume in one second (FEV1) and FEV1/FVC ratio, administered by a spirometry technician with a current certificate from a NIOSH-approved spirometry course.
- Testing for latent tuberculosis infection.
- Any other tests deemed appropriate by the PLHCP.

CROM makes available medical examinations that include the aforementioned procedures (except testing for latent tuberculosis infection) at least every 3 years. If recommended by the PLHCP, periodic examinations can be more frequent than every 3 years.

CROM ensures that the examining PLHCP has a copy of the OSHA Respirable Crystalline Silica Construction Standard, this program, and the following information:

- A description of the employee's former, current, and anticipated duties as they relate to the employee's occupational exposure to respirable crystalline silica.
- The employee's former, current, and anticipated levels of occupational exposure to respirable crystalline silica.
- A description of any personal protective equipment (PPE) used or to be used by the employee, including when and for how long the employee has used or will use that equipment.
- Information from records of employment-related medical examinations previously provided to the employee and currently within the control of CROM.

CROM ensures that the PLHCP explains to the employee the results of the medical examination and provides each employee with a written medical report within 30 days of each medical examination performed. The written report shall contain:

- A statement indicating the results of the medical examination, including any medical condition(s) that would place the employee at increased risk of material impairment to health from exposure to respirable crystalline silica and any medical conditions that require further evaluation or treatment.
- Any recommended limitations on the employee’s use of respirators.
- Any recommended limitations on the employee's exposure to respirable crystalline silica.
- A statement that the employee should be examined by a Specialist if the chest X-ray is classified as 1/0 or higher by the B Reader, or if referral to a Specialist is otherwise deemed appropriate by the PLHCP.

CROM also will obtain a written medical opinion from the PLHCP within 30 days of the medical examination. The written opinion shall contain only the following to protect the employee’s privacy:

- The date of the examination.
- A statement that the examination has met the requirements of the OSHA Respirable Crystalline Silica Construction Standard.
- Any recommended limitations on the employee’s use of respirators.

If the employee provides written authorization, the written opinion shall also contain either or both of the following:

- Any recommended limitations on the employee's exposure to respirable crystalline silica and/or
- A statement that the employee should be examined by a Specialist if the chest X-ray is classified as 1/0 or higher by the B Reader, or if referral to a Specialist is otherwise deemed appropriate by the PLHCP.

If the PLHCP's written medical opinion indicates that an employee should be examined by a Specialist, CROM will make available a medical examination by a Specialist within 30 days after receiving the PLHCP's written opinion. CROM will ensure that the examining Specialist is provided with all of the information that the employer is obligated to provide to the PLHCP.

CROM will ensure that the Specialist explains to the employee the results of the medical examination and provides each employee with a written medical report within 30 days of the examination. The written report will contain:

- A statement indicating the results of the medical examination, including any medical condition(s) that would place the employee at increased risk of material impairment to health from exposure to respirable crystalline silica and any medical conditions that require further evaluation or treatment.
- Any recommended limitations on the employee's use of respirators.
- Any recommended limitations on the employee's exposure to respirable crystalline silica.

In addition, CROM will obtain a written opinion from the Specialist within 30 days of the medical examination. The written opinion shall contain the following:

- The date of the examination;
- Any recommended limitations on the employee's use of respirators; and
- If the employee provides written authorization, the written opinion shall also contain any recommended limitations on the employee's exposure to respirable crystalline silica.

16.15 Hazard Communication

CROM has included Respirable Crystalline Silica in the company's Hazard Communication Program established to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

CROM ensures that each employee has access to labels on containers of Crystalline Silica and those containers' respective Safety Data Sheets (SDSs).

All employees have been trained in accordance with the provisions of the OSHA Hazard Communication Standard and the Training Section of this program. This training covered concerns relating to cancer, lung effects, immune system effects, and kidney effects.

CROM ensures that each employee with the potential to be exposed at or above the Action Level for respirable crystalline silica can demonstrate knowledge and understanding of at least the following:

- The health hazards associated with exposure to respirable crystalline silica.
- Specific tasks in the workplace that could result in exposure to respirable crystalline silica.
- Specific measures CROM has implemented to protect employees from exposure to respirable crystalline silica, including engineering controls, work practices, and respirators to be used.
- The contents of the OSHA Respirable Crystalline Silica Construction Standard.
- The identification of the Competent Person designated by CROM.
- The purpose and a description of the company's Medical Surveillance Program

CROM will make a copy of the OSHA Respirable Crystalline Silica Construction Standard readily available without cost to any employee who requests it.

16.16 Recordkeeping

CROM has made and maintains an accurate record of all exposure measurements taken to assess employee exposure to respirable crystalline silica. These records include at least the following information:

- The date of measurement for each sample taken
- The task monitored
- Sampling and analytical methods used
- Number, duration, and results of samples taken
- Identity of the laboratory that performed the analysis
- Type of personal protective equipment (PPE), such as respirators, worn by the employees monitored
- Name, social security number, and job classification of all employees represented by the monitoring, indicating which employees were actually monitored.

CROM ensures that exposure records are maintained and made available in accordance with 29 CFR 1910.1020. Exposure records will be kept for at least 30 years.

CROM will make and maintain an accurate record of all objective data relied upon to comply with the requirements of the OSHA Respirable Crystalline Silica Construction Standard. This record includes the following:

- The Crystalline Silica-containing material in question
- The source of the objective data
- The testing protocol and results of testing
- A description of the process, task, or activity on which the objective data were based
- Other data relevant to the process, task, activity, material, or exposures on which the objective data were based

CROM ensures that objective data is maintained and made available in accordance with 29 CFR 1910.1020. Objective data records will be kept for at least 30 years.

CROM will make and maintain an accurate record for each employee enrolled in the Medical Surveillance portion of this program. The record shall include the following information about the employee:

- Name and social security number
- A copy of the PLHCPs' and/or Specialists' written medical opinions
- A copy of the information provided to the PLHCP and Specialist

CROM ensures that medical records are maintained and made available in accordance with 29 CFR 1910.1020. Medical records will be kept under lock and key for at least the duration of employment plus 30 years. It is necessary to keep these records for extended periods because Silica-related diseases such as cancer often cannot be detected until several decades after exposure. However, if an employee works for an employer for less than 1 year, the employer does not have to keep the medical records after employment ends, as long as the employer gives those records to the employee.

16.17 Program Evaluation

This program will be reviewed and evaluated on an annual basis by the HSE Department unless changes to operations, the OSHA Respirable Crystalline Silica Construction Standard (29 CFR 1926.1153), or another applicable OSHA Standard requires an immediate re-validation of this program.

CHAPTER 17

Job Shadowing Program

Chapter 17 – Job Shadowing Program

17.1 What is Job Shadowing?

Job Shadowing is a program that allows an individual with little or no work experience to gain knowledge from an experienced employee by working alongside them. It can also be a tool to provide current employees within a department or crew with the opportunity to learn and develop in their current role by working alongside a qualified Trainer.

17.2 Why Job Shadowing?

Job shadowing offers many potential benefits for current employees and new hires, allowing them to gain fresh perspectives.

- It will help provide the new hire with the skills and experience necessary for various stages of CROM's processes.
- It can help decrease accidents on the job by teaching the new hire safety precautions that come with the job.
- It will help the Trainer work more efficiently and safely, be accountable for the training, and prevent them from becoming complacent in their work.

17.3 How does the Shadowing Program work?

Prior to a new hire (“Trainee”) starting their duties, the Superintendent or Foreman assigns them to an experienced crew member to be their Trainer and to shadow on the job for 90 days. The Trainer will be responsible for the assigned Trainee ensuring they learn how to perform assigned duties safely and productively.

At the end of the 90 days, the Trainer completes a review of the Trainee's performance in job duties and discusses their performance and any recommended improvements with the Superintendent or Foreman. The Superintendent then goes over the review with the Trainee to explain how the employee can improve moving forward.

Finally, the new employee will then be given the Shadowing Program 90-Day Review Exam and Field Personnel Assessment.

CHAPTER 18

Respiratory Protection Program

Chapter 18 – Respiratory Protection Program

Respirators are required in an atmosphere that could contain less than 19.5% or more than 23.5% oxygen, and in atmospheres that could contain dust, fibers, mists, fumes, gases, or vapors at harmful concentrations.

18.1 Purpose

The Respiratory Protection Program includes hazard assessment and selection of proper Respiratory Protective Equipment (RPE), as with the types of Personal Protective Equipment (PPE). The primary objective in controlling occupational diseases caused by breathing air contaminated with harmful dust, fogs, fumes, mists, gases, smoke, sprays, or vapors shall be to prevent atmospheric contamination. This should be done, as much as possible, using established engineering control measures (such as enclosing or confining the operation, providing general and local ventilation, and substituting fewer toxic materials). If effective engineering controls are not possible, or while they are being put in place, suitable respirators should be used.

18.2 Responsibilities

The HSE Director is the designated Program Administrator and is responsible for instituting the Company's Respiratory Protection Program. Responsibilities include implementation of the program as well as coordination of the following:

- Required medical evaluations of employees required to use respirators (medical surveillance)
- Coordination of selection and issuance of respirators
- Coordination of respirator facepiece fit tests and facepiece seal fit checks
- Cleaning and sanitizing requirements
- Storage, inspection, maintenance, and replacement of respirators
- Enforcement of all provisions of this program
- Training for affected employees
- Monitoring the effectiveness of the program

All employees are responsible for following the requirements of the Respiratory Protection Program.

CROM obtains the services of a designated medical facility to meet the medical requirements of this program. A designated/qualified distributor will also be used to meet the requirements for fit testing, equipment selection, and documentation.

18.3 Use of Respiratory Protective Equipment

Respiratory protective equipment is used only when it is clearly impractical to use engineering and administrative controls to reduce employee exposure to acceptable levels, especially while engineering controls are being installed or in emergency situations.

To prevent violations of the Respiratory Protection Standard, employees are not allowed voluntary use of their own, or Company-supplied, respirators of any type.

Exception: Employees whose only use of respirators involves the voluntary use of filtering (non-sealing) facepieces (dust masks).

18.4 CROM Respiratory Protection Program

Only authorized and trained employees are authorized to use respirators they have been specifically trained on and properly fitted to use. In addition, the employee must be physically fit to receive training and authorization to use a respirator. This involves undergoing a medical assessment by a preauthorized/certified physician and keeping a record of the evaluation. Any changes in an employee's health or physical condition must be reported and assessed by a qualified physician.

18.5 Training

Effective and understandable training is crucial for employees who need to use respirators. This training will be provided prior to the employee being required to use a respirator.

Respirator training must cover:

- Appropriate hazard communication,
    - why a respirator is needed,
    - the nature of the hazard, and
    - possible consequences if respirators are not used.
- Limitations for the type of respirator being used.
- Procedures for respirator inspection, maintenance, donning and wearing, and performing fit checks.
- Qualitative or quantitative fit test procedures, as appropriate.
- How to sanitize and store respirators to prevent deterioration and contamination.
- Opportunity to wear respiratory equipment in normal air for an adequate familiarity period, and to wear it in a test atmosphere, such as one generated by smoke tubes or isoamyl acetate.

Training should also include:

- Why engineering controls are not feasible or not adequate to control the hazard, and what efforts are being made to reduce the need for respirator use.
- Opportunity for employees to demonstrate that they fully comprehend the information presented.

The employee is responsible for using the respirator correctly and making sure it remains in good condition. Any defects or damage noted must be reported to the supervisor or management immediately.

CROM utilizes the services of a qualified distributor to assist with training and documentation requirements.

18.6 Respiratory Safety

The following guidelines are established to help ensure the safe use of respiratory equipment:

- Wear only the respirator you have been fitted for and instructed to use.
- Wear the correct respirator for the particular hazard.
- Check the respirator for a good fit before each use. Positive and negative fit checks should be conducted.
- Check the respirator for deterioration before and after use. Do Not use a defective respirator.
- Recognize indications that cartridges and canisters are at the end of service. If in doubt, change the cartridges or canisters before using the respirator.
- Practice moving and working while wearing the respirator so that you can get used to it.
- Clean the respirator after each use, thoroughly dry it, and place the cleaned respirator in a sealable plastic bag.
- Store respirators carefully in a protected location away from excessive heat, light, and chemicals.
- Only the properly prescribed respirator or self-contained breathing apparatus (SCBA) may be used for the job or work environment. Air cleansing respirators may be worn in work environments when oxygen levels are between 19.5% and 23.5%, and when the appropriate air-cleansing canister, as determined by the Manufacturer and approved by the National Institute for Occupational Health

(NIOSH) for the known hazardous substance is used. SCBAs will be worn in oxygen-deficient and oxygen-rich environments (below 19.5% or above 23.5% oxygen).

- Only SCBAs will be used in oxygen-deficient environments, environments with an unknown hazardous substance or unknown quantity of a known hazardous substance, or any environment that is determined "Immediately Dangerous to Life or Health" (IDLH).
- Employees with respirators loaned on "permanent check-out" will be responsible for sanitation, proper storage, and security. Respirators damaged by normal wear will be repaired or replaced by the Company when returned.
- All respirators will be kept in a clean, convenient, and sanitary location.
- In the event employees must enter a confined space, work in environments with hazardous substances that would be dangerous to life or health should an RPE fail (a SCBA is required in this environment), and/or conduct a hazardous material (HAZMAT) entry, a "buddy system" detail will be used with a Safety Watchman with constant voice, visual or signal line communication. Employees must follow the established Emergency Action Plan and/or Confined Space Entry Program when applicable.
- Management will establish and maintain surveillance of jobs and workplace conditions and degree of employee exposure or stress to maintain the proper procedures and to provide the necessary PPE.
- Management will establish and maintain safe operation procedures for the safe use of PPE with strict enforcement and disciplinary action for failure to follow all general and specific safety rules.

18.7 Medical Determination

Even with the appropriate equipment provided and adequate training given, an employee's health status must be considered before allowing respirator fit testing and use. Medical conditions such as pulmonary deficiencies, hearing diseases, anemia, hemophilia, and vision correction needs may affect an employee's ability to wear and work with a respirator.

- No employee will be assigned work requiring respirators without first receiving a physical examination and approval from a licensed physician.
- The employee will be provided with a medical questionnaire by a designated physician.
- The consulting physician determines the medical criteria that apply to employees who wear respirators.
- Upon request, a copy of this program will be provided to the physician for reference.

CROM will obtain a written recommendation from the physician regarding the employee's ability to use the respirator. The following medical information will be obtained:

- Limitations on respirator use related to the medical condition of the employee, or relating to the workplace conditions in which the respirator will be used, including whether or not the employee is medically able to use the respirator.
- The need, if any, for follow-up medical evaluations.
- A statement that the physician has provided the employee with a copy of the physician's written recommendation if the respirator is a negative pressure respirator, and the physician finds a medical condition that may place the employee's health at increased risk if the respirator is used. The company shall provide an APR if the physician's medical evaluation finds that the employee can use such a respirator. If a subsequent medical evaluation finds that the employee is medically able to use a negative pressure respirator, then the company is no longer required to provide an APR.

18.8 Additional Medical Evaluations

At a minimum, additional medical evaluations will be required if:

- An employee reports medical signs or symptoms that are related to the ability to use a respirator.
- A physician, supervisor, or program administrator informs management that an employee needs to be reevaluated.

- Information from the respiratory protection program, including observations made during fit testing and program evaluation, indicates a need for employee reevaluation.
- A change occurs in workplace conditions (e.g., physical work effort, protective clothing, temperature) that may result in a substantial increase in the physiological burden placed on an employee.

18.9 Administration of the Medical Questionnaire and Examinations

The medical questionnaire and examinations shall be administered confidentially during the employees' normal working hours. The medical questionnaire shall be administered in a manner that ensures that the employee understands its content. The employee will be provided with an opportunity to discuss the questionnaire and examination results with the physician.

18.10 Respirator Selection

The type of respirator selected is dependent upon the type of work being performed, the airborne hazard, and available oxygen. All selected respirators are NIOSH-certified.

CROM utilizes the services of a qualified consultant to assist with the identification of potential hazards and the type of respirators required.

Respirators are typically classified into two basic groups:
- Air Supplying Respirators (ASR)
- Air Purifying Respirators (APR)

18.11 Air Purifying Respirators (APR)

One type of APR removes particles of dust, fibers, fumes, or mist from the air as the contaminant moves through a filter. Another type of APR removes certain vapors and gases by absorbing or reacting with the contaminant and lets clean air enter the facepiece. Combination APRs remove both particulates and vapors.

Contaminated air may be drawn through the APR filter by two different means. The most common means relies on the respirator wearers using their own breathing to cause the air to pass through the filter, by creating negative pressure inside the respirator facepiece. The other method is to use an air pump that delivers air at a slight positive pressure through the filter to the inside of the facepiece. This type of APR is a powered air-purifying respirator (PAPR).

The kind of filter used in an APR depends upon the contaminant it is designed to remove. For example, a filter designed to remove organic vapors usually contains activated charcoal in a cartridge or canister attached directly, or by a breathing tube, to the respirator facepiece. A filter designed to remove metal fumes can constitute the entire facepiece, attached directly, or by breathing tubes to the respirator facepiece.

Some APRs have an end-of-service indicator for when the filter system is expended, and the filter must be changed.

APRs have limitations and are NOT approved for the following uses:
- When the contaminant has poor warning properties and is not easily recognized by taste, smell, or irritation at or below its permissible exposure limit.
- In oxygen-deficient or enriched atmospheres. APRs do not supply oxygen or filter out high levels of oxygen or other gases.
- When the contaminant concentration exceeds the NIOSH maximum designated use concentration for the respirator.
- When the service life indicator shows that the filter system is expended and the filter must be changed, or the shelf-life date for the filter has expired.

- In atmospheres that could become immediately dangerous to life or health, where a short exposure could cause death, injury, illness, or delayed reaction.

18.12 Air Supply Respirators (ASR)

Air Supplying Respirators (ASRs) provide regulated breathable air from a source other than the air in the contaminated work area. An ASR consists of a facepiece and equipment for supplying breathable air by compressors or pressurized cylinders.

An airline ASR provides regulated air to the facepiece through a hose using a remotely located pressurized cylinder or compressor. Another type of ASR provides breathable air from a self-contained breathing apparatus (SCBA), which is a pressurized cylinder worn by the respirator wearer.

One type of SCBA cylinder provides enough air to the user for entry into and exit from a contaminated atmosphere to perform work, such as a 30-minute air pack. The other type of SCBA is for escape purposes only and may contain enough air for 5 to 10 minutes.

The SCBA approved for Escape-Only must never be used to enter a contaminated area to perform work, or to enter an area for rescue. An SCBA or airline respirator with an auxiliary escape SCBA attached is the only respiratory protective equipment approved for entry into an atmosphere that is immediately dangerous to life and health, such as a confined space, or atmospheres of unknown content or concentration.

No respirator is approved for use in an atmosphere containing more than 25% of the contaminant's lower explosive limits.

18.13 Protection Factors

Different respirators offer different levels of protection. NIOSH has established protection factors for every type of respirator to indicate how much protection a specific respirator type provides.

The respirator protection factor (PF) is the ratio of the contaminant concentration level outside the respirator to the expected possible concentration inside the respirator. The higher the PF value of a respirator, the less contaminant leakage into its facepiece is expected. There are a variety of PFs for different types of respirators. PFs are approximate values and apply only when the wearer has been properly fitted, tested, and trained, and when the respirator is correctly worn and kept in proper operating condition.

As a general rule, when a contaminant has a specific permissible exposure limit (PEL) listed in the regulatory standard, the maximum contaminant level at which a respirator may be used is the lower value of the PEL multiplied by the PF for the respirator, or the maximum use concentration specified on the NIOSH/MSHA approval label.

18.14 Respirator Leakage

With some APRs, the user's every breath causes air to enter the filter. These are called negative pressure APRs because every time the wearer inhales, the pressure created inside the facepiece is negative in relation to the contaminated atmosphere outside the facepiece. If there are leaks around the face seal, the negative pressure inside the respirator can draw contaminated air into the facepiece. When the respirator wearer begins to taste, smell, or experience irritation from contaminated air, this indicates that leakage or a breakthrough has occurred.

In the case of an APR, breakthrough may mean that the filter, canister, or cartridge needs to be replaced, there is a mechanical failure of the respirator valves, a breathing tube connection is loose, or there is a leak at the facepiece seal.

In the case of an ASR, the breakthrough may mean a failure of valves, regulators, hoses, breathing tubes or fittings, loose connections, or a leak at the facepiece seal. A poor face seal may be the reason for the leakage of contaminants into the facepiece of any APR or ASR. A poor face seal may be caused by weight gain/loss changing the physical features of the wearer's face.

Leakage can also be caused by debris and dirt buildup, excessive perspiration, use of Vaseline, a growth of a beard or other facial hair, or wearing any item that interferes with the facepiece seal.

Missing, worn, or deteriorated respirator parts, such as missing exhalation valves or insufficiently tightened cartridges, may cause leakage of a contaminant into the facepiece.

Contaminant leakage into the facepiece of an ASR may be due to cracked, deteriorated, or loose connections between hoses and breathing tubes, malfunctioning regulators, or improperly seated facepiece lenses. Additional leakage of contaminants into the facepiece may occur if the wearer over-breathes the regulated air supply, thereby creating negative pressure inside the facepiece.

18.15 Filter Obstruction

All APRs for dust, fumes, and mist have filters that become obstructed or clogged by particulates, and which must be changed when it becomes hard to breathe through the filter.

PAPRs have the same use limitations as negative pressure or non-powered air-purifying respirators. One disadvantage of using PAPRs is that the constant flow of air through purifying filters decreases the amount of time the filter can be used because the greater airflow and collection of contaminants on the filter cause greater loading on the filter.

18.16 Respirator Fit Testing

CROM conducts and utilizes the services of a licensed third party to perform certified fit testing to make sure their employees wear respirators in a test atmosphere to achieve proper face fit. Employees are required to conduct a fit check before each respirator use.

Respirator facepieces are made in a variety of sizes to fit a wide range of face shapes. Some employees, however, are not able to achieve a good fit, and they cannot be permitted to use respirators. Facial scars, beards, whiskers, sideburns, large mustaches, and weight gains/losses interfere with the proper fit of a respirator facepiece seal. This issue is problematic for negative pressure respirators.

18.17 Fit Checks

With the exception of hoods and certain powered air-purifying respirators, a fit check must be conducted by the wearer every time the respirator is put on. A point-of-use fit check must be performed to determine whether the respirator valves are working properly, and how well the facepiece fits and seals out contaminants. Positive pressure and negative pressure fit checks are indicators of the respirator operability and facepiece fit.

Fit checks are conducted during the initial selection and training, and every time an employee puts on a respirator before entering a contaminated atmosphere. The employee must not use a respirator until the checks have been satisfactorily completed.

18.18 Identification of Filters and Cartridges

All filters and cartridges shall be labeled and color-coded with the NIOSH approval label. This label must not be removed and must remain legible.

18.19 Respirator Filter and Canister Replacement

An important part of the Respiratory Protection Program includes identifying the useful life of canisters and filters used on air-purifying respirators. Every filter and canister shall be equipped with an end-of-service-life indicator (ESLI) certified by NIOSH for the contaminant.

18.20 Filter and Cartridge Change Schedule

A stock of spare filters and cartridges must be kept allowing for immediate replacement as needed or desired by the employee.

Cartridges must be changed based on the most limiting factor below:

- Prior to expiration date
- Manufacturer's recommendations for the specific use and environment
- After each use
- When requested by the employee
- When contaminated odor is detected
- When restriction to airflow has occurred, as evidenced by an increased effort by the user to breathe normally.
- Cartridges shall remain in their original sealed packages until needed.

Filters must be changed based on the most limiting factor below:

- Prior to expiration date
- Manufacturer's recommendations for the specific use and environment
- When requested by the employee
- When contaminated odor is detected
- When restriction to airflow has occurred, as evidenced by an increased effort by the user to breathe normally.
- When discoloring of the filter media is evident.
- Filters shall remain in their original sealed package until needed.

18.21 Procedures for IDLH Atmospheres

For all IDLH atmospheres, the Company must ensure that:

- One employee or, when needed, more than one employee is located outside the IDLH atmosphere.
- Visual, voice, or signal line communication is maintained between the employee(s) in the IDLH atmosphere, and the employee(s) located outside the IDLH atmosphere.
- The employee(s) located outside the IDLH atmosphere are trained and equipped to provide effective emergency rescue.
- The company or designee is notified before the employee(s) located outside the IDLH atmosphere enter the IDLH atmosphere to provide emergency rescue.
- The company, or designee authorized to do so by the company, once notified, provides necessary assistance appropriate to the situation.

Employee(s) located outside the IDLH atmospheres will be equipped with:

- Pressure demand or other positive pressure SCBAs, *or*
- A pressure demand or other positive pressure-supplied air respirator with auxiliary SCBA.

and

- Appropriate retrieval equipment for removing the employee(s) entering these hazardous atmospheres where retrieval equipment would contribute to the rescue of the employee(s) and would not increase the overall risk resulting from entry, or equivalent means for rescue where retrieval equipment is not required.

18.22 Cleaning and Disinfecting

Respirators must be maintained in a clean and sanitary condition to ensure that contaminants do not cause deterioration or malfunction of parts and to prevent dermatitis among employees using the equipment. A respirator must not be used by another employee until it has been thoroughly cleaned and sanitized.

Procedures for cleaning a cartridge-type respirator are:

- Remove the cartridge, gaskets, valves, and straps from the respirator.
- Wash the respirator body in a mild soap solution or the cleaning solution recommended by the manufacturer.
- Thoroughly rinse the respirator to remove any residue. Failure to remove soap and properly sanitize the respirator may cause dermatitis and/or eye irritation.
- Air dry the respirator in an area away from contaminants. Do Not dry the respirator at temperatures above the manufacturer's recommendation.

18.23 Respirator Inspection

All respirators will be inspected before use. Damaged respirators will be replaced. Respirators must be inspected as follows:

- All respirators used in routine situations must be inspected before each use and during cleaning.
- All respirators maintained for use in emergency situations must be inspected at least monthly and in accordance with the manufacturer's recommendations and must be checked for proper function before and after each use.
- Emergency escape-only respirators must be inspected before being carried into the workplace for use.

Respirator inspections include the following:

- A check of respirator function
- Tightness of connections
- Condition of the various parts including, but not limited to:
    - facepiece
    - head straps
    - valves
    - connecting tube
    - cartridges, canisters, or filters

18.24 Respirator Storage

Respirators are to be stored as follows:

- All respirators must be stored to protect them from damage, contamination, dust, sunlight, extreme temperatures, excessive moisture, and damaging chemicals, and they must be packed or stored to prevent deformation of the facepiece and exhalation valve.

Emergency Respirators must be:

- Kept accessible to the work area.
- Stored in compartments or in covers that are clearly marked as containing emergency respirators.
- Stored in accordance with any applicable manufacturer instructions.

18.25 Program Evaluation

Evaluations of the workplace are necessary to ensure that the written Respiratory Protection Program is being properly implemented. This includes consulting with employees to ensure that they are using the respirators properly. Evaluations must be conducted as necessary to ensure that the provisions of the current

written program are being effectively implemented and that it continues to be effective. Program evaluation will include discussions with the employees required to use respirators to assess their views on program effectiveness and identify any problems. Any problems that are identified during this assessment must be corrected.

Factors to be assessed include, but are not limited to:

- Respirator fit (including the ability to use the respirator without interfering with effective workplace performance).
- Appropriate respirator selection for the hazards to which the employee is exposed.
- Proper respirator use under the workplace conditions the employee encounters.
- Proper respirator maintenance

18.26 Recordkeeping

CROM retains written information regarding medical evaluations, fit testing, and the respirator program. This information will facilitate employee involvement in the respirator program, assist CROM in auditing the adequacy of the program, and provide a record for compliance determinations by OSHA.

Protective requirements for all trigger tasks and any other task that may cause lead exposure above the PEL, include the following:

- Respirators, protective equipment, and protective clothing.
- Clothing change areas and a shower.
- Initial blood tests for lead and zinc protoporphyrin.
- Basic lead hazard, respirator, and safety training.
- The establishment of a regulated area and warning sign.

18.27 Silica Dust

Construction work that involves exposure to airborne sand and rock dust can expose employees to crystalline silica. Exposure has been shown to cause silicosis (lung disease).

Hazardous activities include abrasive blasting with sand and loading, dumping, chipping, hammering, cutting, and drilling of rock, sand, or concrete.

Before beginning work that could expose employees to crystalline silica, the following must be performed:

- Measure and establish methods to control exposure to airborne contaminants.
- Provide workers with training materials and information on exposure.
- Operations in which employees may be repeatedly exposed to rock dust or sand should be evaluated by a qualified industrial hygienist.

When sandblasting, employees are required to use Supplied Air Helmets. In accordance with NIOSH recommendations, the following measures to reduce exposures will be adhered to:

- Recognize when silica dust may be generated and plan ahead to eliminate or control the dust at the source.
- Wet sawing will be used as an engineering control to protect the employee and adjacent workers from exposure.
- Routinely maintain dust control systems to keep them in good working order.
- Practice good personal hygiene to avoid unnecessary exposure to other worksite contaminants such as lead.
- Wear disposable or washable protective clothes at the worksite.
- Shower (if possible) and change into clean clothes before leaving the worksite to prevent contamination of cars, homes, and other work areas.

- Post warning signs to mark the boundaries of work areas contaminated with respirable crystalline silica.

CHAPTER 19

Noise Exposure & Hearing Conservation

Chapter 19 – Noise Exposure and Hearing Conservation

In compliance with OSHA (29 CFR 1910.95), this program establishes policies and procedures to effectively control excessive noise and protect employees from hearing loss. Regulations require employers to implement a hearing conservation program if employees' noise exposure levels exceed 85 decibels (dB) for an average of 8 hours per day.

19.1 Purpose

The Noise Exposure and Hearing Conservation Program aims to eliminate or reduce employee occupational noise exposure levels exceeding 85 dB for an average of 8 hours per day or as recommended by Table G-16.

Table G-16 – Permissible Noise Exposures

Duration per day, hours	Sound level dBA slow response
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ or less	115

When the daily noise exposure is composed of two or more periods of noise exposure of different levels, their combined effect should be considered, rather than the individual effect of each. If the sum of the following fractions: C/T, +C/T, C/T, exceeds unity, then, the mixed exposure should be considered to exceed the limit value. C indicates the total time of exposure at a specified noise level, and T indicates the total time of exposure permitted at that level.

Exposure to impulsive or impact noise should not exceed 140 dB peak sound pressure level.

Current noise survey reports in this program ensure that noise exposed to employees is part of the hearing conservation program.

19.2 Scope

This program covers all employees who work in areas with excessive noise levels. Employees who work more than 4 hours per day in an area with noise levels exceeding 85 dB will be required to have regular hearing tests. The primary affected employees are the Job Servicing staff who occasionally work with loud equipment or in areas of probable high noise. Field employees may also be affected by high noise levels.

All employees are required to comply with the scope of this Noise Exposure and Hearing Conservation Program.

19.3 Definitions

- Permissible Noise Exposure: There are two exposure levels that if exceeded require specific compliance activities:

    - Permissible Noise Exposure is an 8-hour time-weighted average of 90 dB on the A scale or a dose of 100%.
    - Action Level is an 8-hour time-weighted average of 85 dB on the A scale or a dose of 50%.
- Representative Noise Exposure: Measurements of an employee's noise dose or 8-hour time-weighted average sound level that the college deems to be representative of the exposures of other employees in the workplace.
- Sound Measurements taken by: Name of person conducting the survey, date of survey, type of instrument.
- Noise Dosimeter: An instrument that integrates a function of sound pressure over a period of time in such a manner that it directly indicates a noise dose.
- Sound Level Meter: An instrument for the measurement of sound level.
- Time-Weighted Average Sound Level: That sound level which, if constant over an 8-hour exposure, would result in the same noise dose as is measured.

19.4 Responsibilities

HSE Director:

- General oversight of the program.
- Provide regular evaluation of the program.
- Work with supervisors to ensure the program is implemented in every appropriate program or activity.
- Ensure representative noise surveys are conducted.
- Ensure employees are trained in the use of hearing protection.
- Train supervisors in the use of hearing protection.
- Maintain records of noise surveys.
- Maintain the Noise and Hearing Conservation written program.
- Perform evaluations of the program.

Supervisors:

- Ensure that noise-exposed employees wear hearing protection.
- Ensure that noise-exposed employees receive hearing protection training.
- Assist HSE with the evaluation of the program.

All Noise Exposed Employees:

- Be familiar with the program.
- Wear appropriate hearing protection.
- Take an active part in training.

Noise Surveys

Noise surveys are required to be done on work operations that have potentially high noise levels (85 dBA and above).

- The program manual includes the noise requirements.
- Additional noise surveys are necessary when new equipment or processes are introduced, potentially leading to increased noise levels. Periodic re-verification of test results is required.
- Assistance with noise monitoring can be obtained from the workers' compensation insurance carrier, OSHA consultants, or through outside consultants.
- Noise survey measurements are recorded on the employee's hearing test records.

Each employee exposed to noise at or above the 85 dBA average is to be informed of the survey results. This is done by posting the data and including the information at the employee's initial training and annual employee noise training.

19.5 Hearing Protection

Hearing protection is required during the operation of equipment or processes that exceed 85 dBA noise levels as a time-weighted average exposure.

- The hearing protection required or recommended for high-noise areas (ear plugs, foam plugs, or earmuffs) is available in the Field and the Job Servicing Facility.
- The use and availability of hearing protection will be pointed out to every new employee during their initial safety orientation.
- Employees required to wear hearing protection will be informed by their supervisor.
- Employees will be trained by their supervisor on how to properly fit the hearing protectors. If anyone has problems with these devices, contact your supervisor.

All devices provided are evaluated to determine if they provide adequate noise attenuation for the noise exposure levels.

Employees who are assigned hearing protection are responsible for maintaining their devices.

- Disposable earplugs should be discarded at the end of a shift or when they are excessively soiled.
- Inserts or barriers are to be checked before each use for any defects. If barriers are used, the headband should be checked to ensure it is tight and the inserts are not torn, disfigured, or improperly sealed. If the equipment is damaged, new devices will be provided.
- Manufacturer recommendations on maintenance are to be followed.

19.6 Audiometric (Hearing) Testing

New employees assigned to a noise area where the time-weighted exposure to noise is above 85 dBA, will be given a baseline hearing test and will be tested annually thereafter. The hearing test is given by a contracted certified audiometric technician. Hearing tests showing significant hearing loss, are forwarded to the contracted professional reviewer.

Baseline or initial tests are to be given to new employees at the time of hire, or within 6 months of an employee's first exposure to noise levels at or above the action level. The baseline tests require the employee not to have been in the occupational noise area for 14 hours prior to the test. The test will be conducted at the start of the work shift and will be the reference for further tests to determine if hearing levels have changed.

An annual hearing test should be given at the start of a work shift. These results will be compared with the baseline tests.

- Significant threshold shift (STS) criterion: The hearing loss criterion is a change in hearing threshold relative to the baseline audiogram of an average of 10 dB or more at 2000, 3000, and 4000 hertz (Hz) in either ear.
- The employee may be retested within 30 days and the results of the retest will be considered to determine if a permanent shift has occurred.
- Employees will be informed if their tests show significant changes in their hearing levels based on OSHA standards. Within 21 days of receiving notification from the contracted audiologist of the employee's hearing change, the Hearing Control Officer will notify the employee in writing of the determination and follow-up by the Administrator.
- In all cases of hearing loss, the employee will be re-instructed on how to properly wear hearing protection. The supervisor and/or the HSE Department will follow up on all hearing tests that show a reduction in the employees' hearing from the baseline.
- The contracted audiologist will determine if additional tests are needed and the status of the employees' hearing.
- Baseline and annual hearing tests are a company expense.

Note: Job descriptions must be provided to the contracted audiologist during hearing testing, along with details about the duration and frequency of noise exposure and the hearing protection available.

19.7 Employee Training

New employees will receive hearing conservation training at the initial assignment to a noise area. This training will be repeated annually for all noise-exposed employees. The specific training materials are provided in this manual and are to be a guideline for supervisors and/or HSE Representatives to use.

A copy of the training material is available to employees by contacting his/her supervisor or the HSE Department.

Training includes the following topics:

- Effects of noise on hearing
- Hearing protectors' purpose, advantages and disadvantages, attenuation of various types, and instructions on selection, fitting, use, and care.
- Purpose of hearing testing and an explanation of the test procedures.

19.8 Noise Engineering Controls

The HSE Director is responsible for determining if there are feasible engineering controls that could reduce noise levels to below 85 dBA as a time-weighted 8-hour average.

Engineering Control Feasibility Studies: In some cases, there may be records of noise control studies done on pieces of equipment or processes. These records should be kept to show compliance with OSHA noise engineering control standards. The records should be maintained for the duration the equipment or process is in use.

19.9 Recordkeeping

Records must be maintained for the various elements of the program which includes the following requirements:

Noise Exposure Measurement

- Time Frame: Current plus 2 years of results. Note: The current record may represent measurements taken longer than 2 years ago. This is permitted as long as the readings are reflective of noise exposure levels.

Audiogram Records

- Time Frame: Duration of employment plus 30 years.

Training Records

- Time Frame: Employee training records will be kept on file by their supervisor and available for employee inspection upon request. Training records shall be maintained for 3 years from the date of the training.

The following information shall be documented:

- The dates of the training sessions
- An outline describing the material presented
- The names and qualifications of the person conducting the training
- The names and job titles of all people attending the training sessions

Access to Records

All records required by this hearing conservation program shall be provided upon request to employees, former employees, and individual employee representatives. Access to the records may be requested by and provided to the Assistant Secretary of Labor for the Occupational Safety and Health Administration and the Director of the National Institute for Occupational Safety and Health. The provisions of 29 CFR 1910.20 (a)-(e) and (g)-(i) apply to access to records under this section.

OSHA 300 Log Record

If an employee's hearing shift is permanent, it must be recorded on the employer's OSHA 300 Log. By definition, a standard threshold shift is identified as a 10 dB shift at 2000, 3000, and 4000 Hz.

Employees must be informed in writing within 21 days of the determination of permanent hearing shift.