

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE 13-Jul-2004	J	1
6. ISSUED BY USA ENGINEER DISTRICT, JACKSONVILLE PRUDENTIAL OFFICE BLDG 701 SAN MARCO BLVD ATTN: CESAJ-CT JACKSONVILLE FL 32207-8175		CODE W912EP	7. ADMINISTERED BY (If other than item 6) See Item 6	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912EP-04-R-0017
			X	9B. DATED (SEE ITEM 11) 28-May-2004
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended.				
Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) CANAVERAL LOCK, PAINTING AND OTHER REPAIRS, CANAVERAL HARBOR, FLORIDA Any enclosures accompanying this amendment should be inserted into the plans and/or specifications as applicable. All superseded material should be removed or adequately marked to indicate that they have been superseded. Proposal due date is changed from 15 July 2004 to 23 July 2004 See attached SF30 Continuation Page				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SF 30 CONTINUATION SHEET

1. SPECIFICATIONS:

A. Either asterisks appear before and after the line or lines where revisions have been made to the text on the enclosed revised or added pages or the text changes have been updated with additions noted with underlined text and deletions noted with line/cross-outs, and pertain only to changes made by this amendment.

B. The text changes may have necessitated reformatting of subsequent text or pages. If this is the case, those pages have also been issued as amended pages but are not marked with asterisks or underlined text and line/cross-outs.

DELETE SECTION 00100B EVALUATION FACTORS FOR AWARD and INSERT the attached SECTION 00100B EVALUATION FACTORS FOR AWARD.

DELETE the PROJECT TABLE OF CONTENTS and REPLACE with the attached revised PROJECT TABLE OF CONTENTS.

DELETE the SUBMITTAL REGISTER and REPLACE with the attached revised SUBMITTAL REGISTER (Appendix REGISTER.pdf).

INSERT the attached SECTION 02540 PILING: PRECAST CONCRETE COMPOSITE.

INSERT the attached APPENDIX 09965A-A: DAILY INSPECTION CHECKLIST FOR STEEL SUBSTRATES at the end of Section 09965A PAINTING: HYDRAULIC STRUCTURES.

DESCRIPTIVE SPECIFICATION CHANGES: The following are descriptive changes to the specifications. Specifications should be adequately marked to indicate that they have been changed.

Change title of Section 02459A from "PILING: COMPOSITE, WOOD AND CAST IN-PLACE CONCRETE" to "PILING: FIBERGLASS REINFORCED PLASTIC".

Amend Section 01451 CONTRACTOR QUALITY CONTROL to add paragraph 3.4.6: Abrasive Blast Cleaning and Painting. The contractor shall employ a National Association of Corrosion Engineers (NACE), Certified Coatings Inspector to perform quality control tests, and prepare quality control records, for surface preparation and coating as required in Section 09965, Painting: Hydraulic Structures, for the sector gates. The Inspector shall complete the daily checklist appended to Section 09965, Painting: Hydraulic Structures.

Replace Section 09965A, PAINTING: HYDRAULIC STRUCTURES, paragraph 3.11.2.b with the following: Warning stripes applied on the sector gates as a top coat over the coal tar epoxy shall be an epoxy-polyamid paint, specified by the manufacturer as suitable for immersion service. Emulsions and other water-thinned epoxies will not be accepted.

Replace the first sentence of Section 09965A, PAINTING: HYDRAULIC STRUCTURES, paragraph 3.11.3 with the following: Paint timber placed on the face of the sector gates with the epoxy-polyamid paint specified in subparagraph above.

2. DRAWINGS:

DESCRIPTIVE DRAWING CHANGES: Drawing No. 6/1, Zone G1, insert the following: "NOTE 4: PRECAST CONCRETE COMPOSITE PILING MAY BE USED IN LIEU OF FIBERGLASS REINFORCED PLASTIC PILING. PRECAST CONCRETE COMPOSITE PILING SHALL HAVE THE FOLLOWING MINIMUM PHYSICAL PROPERTIES: 16.5 INCH OUTER DIAMETER WITH A MINIMUM 0.25 INCH FIBERGLASS TUBE WALL THICKNESS; MINIMUM EFFECTIVE FLEXURAL STIFFNESS (EI) OF 2.75E9 LB-IN², AND STRAIGHTNESS OF LESS THAN 1.5 INCH

DEVIATION PER 10 FEET. CONTRACTOR TO DEVELOP AND SUBMIT CONNECTION
DETAILS THAT PROVIDE PERFORMANCE AND STRENGTH EQUAL TO THOSE INDICATED HEREIN.

SECTION 00100B
EVALUATION FACTORS FOR AWARD

(TRADE-OFF)
(AWARD WITHOUT DISCUSSIONS)

EVAL-1 Applicable Regulatory Guidance. This source selection will be conducted in accordance with procedures prescribed in FAR Part 15.

EVAL-2 Determining Best Value. The Contracting Officer will use a trade-off process to determine which offer represents the best value to the Government. This process allows the Contracting Officer to consider making award to other than the lowest priced offeror or other than the highest technically rated offeror. All evaluation factors other than price, when combined, are significantly more important than price.

EVAL-3 Evaluation Factors. The following factors and significant subfactors will be used to determine best value. The relative importance of non-price factors/subfactors is as indicated.

EVALUATION FACTORS (TRADE-OFF)		
FACTOR	SUBFACTOR	RELATIVE IMPORTANCE/OTHER INFORMATION
Price	N/A	See paragraph EVAL-2 above.
Past Performance	N/A	Past Performance is slightly more important than Technical Merit
	Generally, the Government will evaluate timely completion of work; quality of work; customer satisfaction; cost controls for additional work; and safety. However, the Government reserves the right to evaluate other areas and reserves the right to determine, on a case-by-case basis, how much emphasis to place on any given area. If a subcontractor is being utilized to demonstrate experience on any of the above subfactors, provide relevant past performance information.	
Technical Merit	N/A	Technical Merit is slightly less important than Past Performance.
	Demonstrated Experience in successfully completing a project requiring lead based paint abatement, containment systems, high performance epoxy and vinyl tape paint systems and composite fiberglass reinforced plastic piles.	Relevance - This subfactor is slightly more important than the Management Plan and Construction Schedule subfactor in importance.
	Management Plan and Construction Schedule	Relevance - This subfactor is slightly less important than the Demonstrated Experience subfactor in importance.
Utilization of Small Business Concerns	N/A	Relevance: The Utilization of Small Business Concerns factor is significantly less important than the Technical Merit and Past Performance factors.
	Completed Contracts	This subfactor is equal to the Proposed For This Contract subfactor.
	Proposed For This Contract	This subfactor is equal to the Completed Contracts subfactor.

EVAL-4 Rating Definitions. Following table shows ratings for each type of evaluation and gives definitions for the ratings.

PRICE/COST is not rated. It is evaluated for reasonableness.

PERFORMANCE RISK (Past Performance) ratings assess the risks associated with each offeror's likelihood of success in performing the requirements stated in the RFP based on that offeror's demonstrated performance on recent, relevant contracts. The risk assessment will be based on two components, i.e., ratings for past work and relevancy of past work to this project. Less relevant work will receive less weight. It is the offeror's responsibility to establish relevancy of past work to this project.	
RATING	DEFINITION
Outstanding	Offeror's past performance record reflects a consistent commitment to quality work and customer satisfaction with few problems, all of which were immediately corrected.
Above Average	Offeror's past performance record reflects a consistent commitment to quality work and customer satisfaction with few problems, most of which were immediately corrected.
Satisfactory	Offeror's past performance record is inconsistent—mostly good but some bad. Several problems were encountered. Most were satisfactorily resolved. Some required extra effort on the part of QA/inspection personnel to obtain resolution.
None	The offeror has no relevant performance record. A thorough search was unable to identify any past performance information.
Marginal	Offeror's past performance record is inconsistent—some good but mostly bad. Several problems were encountered. Some were satisfactorily resolved. Too many required extra effort on the part of QA/inspection personnel to obtain resolution.
Unsatisfactory	Offeror's past performance record reflects a consistent lack of commitment to quality work and customer satisfaction.
RELEVANCE	DEFINITION
Highly Relevant	Past projects bear a strong correlation to this project in size, scope, and type of work.
Moderately Relevant	Past projects correlate to this project in most but not all respects.
Slightly Relevant	Past projects correlate to this project in a few respects.
RISK	DEFINITION
Very Low Risk	Offeror received Outstanding rating for Highly Relevant past performance.
Low Risk	Offeror received either: (1) Outstanding rating for Moderately Relevant past performance, or (2) Above Average rating for Highly Relevant past performance.
Moderate Risk	Offeror received: (1) Outstanding rating for Slightly Relevant past performance, (2) Above Average rating for Moderately Relevant past performance, (3) Above Average rating for Slightly Relevant past performance, or (4) Satisfactory rating for Highly Relevant past performance .
Unknown Risk	The offeror has no relevant performance record; therefore, offeror received no rating. A thorough search was unable to identify any past performance information.
High Risk	Offeror received: (1) Satisfactory rating for Moderately Relevant past performance, (2) Satisfactory rating for Slightly Relevant past performance, or (3) Marginal rating for Highly Relevant past performance.

Very High Risk	Offeror received: (1) Marginal rating for Moderately Relevant past performance, (2) Marginal rating for Slightly Relevant past performance, (3) Unsatisfactory rating for Highly Relevant past performance, (4) Unsatisfactory rating for Moderately Relevant past performance, or (5) Unsatisfactory rating for Slightly Relevant past performance.
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TECHNICAL MERIT ratings reflect (1) the Government's confidence in each offeror's ability, as demonstrated in its proposal, to perform the requirements stated in the RFP, and (2) the Government's assessment of performance risk associated with the proposal.	
ADJECTIVE	DEFINITION
Outstanding	Excellent in all respects; offers one or more significant advantages not offset by disadvantages; very good probability of success with overall low degree of risk in meeting the Government's requirements.
Above Average	High quality in most respects; offers one or more advantages not offset by disadvantages; good probability of success with overall low to moderate degree of risk in meeting the Government's requirements.
Satisfactory	Adequate quality; any advantages are offset by disadvantages; fair probability of success with overall moderate to high degree of risk in meeting the Government's requirements.
Marginal	Overall quality cannot be determined because of errors, omissions or deficiencies that are capable of being corrected without a major rewrite or revision of the proposal.
Unsatisfactory	A proposal that contains major errors, omissions or deficiencies, or an unacceptably high degree of risk in meeting the Government's requirements; and these conditions cannot be corrected without a major rewrite or revision of the proposal.

UTILIZATION OF SMALL BUSINESS CONCERNS ratings reflect the Government's assessment of the offeror's commitment to the policy stated in FAR 52.219-8.	
RATING	DEFINITION
Outstanding	The offeror's proposed utilization of small business concerns for this contract when considered together with the offeror's record of utilization of small business concerns in previous contracts reflects outstanding commitment to the policy stated in FAR 52.219-8. (Note: FAR 19.708 requires use of the clause at FAR 52.219-8 in almost all contracts with a value of more than \$100,000. However, if the offeror has never had a contract that included FAR 52.219-8, the rating for this factor shall be based solely on the offeror's proposed utilization of small business concerns for this contract.)
Above Average	The offeror's proposed utilization of small business concerns for this contract when considered together with the offeror's record of utilization of small business concerns in previous contracts reflects above average commitment to the policy stated in FAR 52.219-8. (Note: FAR 19.708 requires use of the clause at FAR 52.219-8 in almost all contracts with a value of more than \$100,000. However, if the offeror has never had a contract that included FAR 52.219-8, the rating for this factor shall be based solely on the offeror's proposed utilization of small business concerns for this contract.)

Satisfactory	The offeror's proposed utilization of small business concerns for this contract when considered together with the offeror's record of utilization of small business concerns in previous contracts reflects satisfactory commitment to the policy stated in FAR 52.219-8. (Note: FAR 19.708 requires use of the clause at FAR 52.219-8 in almost all contracts with a value of more than \$100,000. However, if the offeror has never had a contract that included FAR 52.219-8, the rating for this factor shall be based solely on the offeror's proposed utilization of small business concerns for this contract.)
Marginal	The offeror's proposed utilization of small business concerns for this contract when considered together with the offeror's record of utilization of small business concerns in previous contracts reflects marginal commitment to the policy stated in FAR 52.219-8. (Note: FAR 19.708 requires use of the clause at FAR 52.219-8 in almost all contracts with a value of more than \$100,000. However, if the offeror has never had a contract that included FAR 52.219-8, the rating for this factor shall be based solely on the offeror's proposed utilization of small business concerns for this contract.)
Unsatisfactory	The offeror's proposed utilization of small business concerns for this contract when considered together with the offeror's record of utilization of small business concerns in previous contracts reflects unsatisfactory commitment to the policy stated in FAR 52.219-8. (Note: FAR 19.708 requires use of the clause at FAR 52.219-8 in almost all contracts with a value of more than \$100,000. However, if the offeror has never had a contract that included FAR 52.219-8, the rating for this factor shall be based solely on the offeror's proposed utilization of small business concerns for this contract.)

EVAL-5 Proposal Evaluation. The Government intends to evaluate proposals and award a contract without discussions with offerors (except clarifications as described in FAR 15.306(a)). Therefore, the offeror's initial proposal should contain the offeror's best terms from a price and technical standpoint. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary. Further, if the Contracting Officer determines that discussions are necessary and if the Contracting Officer determines that the number of proposals that would otherwise be in the competitive range exceeds the number at which an efficient competition can be conducted, the Contracting Officer may limit the number of proposals in the competitive range to the greatest number that will permit an efficient competition among the most highly rated proposals. The following table synthesizes the evaluation methodology:

ELEMENT	METHOD
General Review	Review of entire proposal to ascertain completeness and offeror's eligibility for award.
Price	Price will not be given a score. It will be reviewed for possible mistakes and eligibility for award, and evaluated for reasonableness.
Past Performance	Will be evaluated for risks associated with the proposal. Possible ratings are: Very Low, Low, Moderate, Unknown, High, and Very High. An "unknown risk" rating will have neither a favorable nor an unfavorable impact on the overall evaluation of the proposal. However, if necessary, the Contracting Officer can consider favorable or unfavorable past performance history as a tiebreaker when comparing offerors who have no past performance history with offerors who do have past performance history. For example, if all other factors are relatively equal, an offeror with a favorable past performance history may be selected over an offeror with no past performance history; or, an offeror with no past performance history may be selected over an

	offeror with an unfavorable past performance history.
Utilization of Small Business Concerns	Will be evaluated for commitment to policy stated in FAR 51.219-8. Possible ratings are: Outstanding, Above Average, Satisfactory, Marginal, and Unsatisfactory.
Source Selection Decision	Evaluators will provide results of evaluations to the Contracting Officer who will, through a trade-off process involving all evaluation factors, determine which proposal represents the best overall value to the Government.

EVAL-5.1 General Review.

EVAL-5.1.1 Offerors will be checked against the *List of Parties Excluded From Federal Procurement and Nonprocurement Programs*. Any offeror who is listed will be eliminated without further consideration.

EVAL-5.1.2 Bid bonds will be reviewed for acceptability. Any offeror whose bid bond is unacceptable, will be eliminated without further consideration unless the Contracting Officer later determines that discussions are necessary and decides that the offeror's proposal should be included in the competitive range.

EVAL-5.1.3 Proposals will be checked for minor informalities or irregularities. The Contracting Officer will follow guidance at FAR 14.405 when resolving minor informalities or irregularities. The Contracting Officer either will give the offeror an opportunity to cure any defect resulting from a minor informality or irregularity or waive the defect, whichever is to the advantage of the Government.

EVAL-5.2 Price Evaluation.

EVAL-5.2.1 Prices will be reviewed for minor or clerical errors. If necessary, offerors will be afforded an opportunity to resolve any such errors. Any exchange with offerors under this subparagraph shall be for the purpose of clarification (FAR 15.306(a)) and shall not constitute negotiations as defined at FAR 15.306(d). In the event of discrepancy between a unit price and the extended amount, the unit price shall be controlling.

EVAL-5.2.2 Prices will be reviewed for apparent mistakes. Should this review reveal any prices that seem unreasonably low, the Contracting Officer will contact the offeror and ask the offeror to confirm the questioned price. If the offeror confirms the price, no further action will be taken under this subparagraph. If, however, the offeror alleges a mistake, the offeror may modify the proposal in accordance with FAR 52.215-1(c)(6). Any modification submitted for the purpose of correcting a mistake shall include documentation explaining how the mistake was made.

EVAL-5.2.3 After resolution of minor or clerical errors and/or mistakes, prices will be reviewed for reasonableness.

EVAL-5.3 Technical Merit Evaluation.

EVAL-5.3.1 Using the Technical Merit factor and subfactors listed in paragraph EVAL-3 above, each evaluator will conduct an independent evaluation of each proposal documenting the strengths, deficiencies, significant weaknesses, and risks associated with each proposal. Upon completion of individual evaluations, the entire evaluation team will form a consensus opinion of each offeror's ability to accomplish the project work and prepare a narrative supporting the team's conclusions. In the event the team is unable to form a consensus, the team will prepare majority and minority opinions for the Contracting Officer's consideration.

EVAL-5.4 Past Performance Evaluation. The Government will consider currency and relevance of the information, source of the information, context of the data, and general trends in the offeror's performance. Information will be weighted in accordance with its relevance. The Government may use information supplied by the offeror and information obtained from other sources. The evaluation will be

conducted by telephone. If, during the course of the evaluation, the Government obtains adverse information that the offeror has not previously been made aware of, the Government will afford the offeror an opportunity to respond to the information. The Government will not disclose the names of persons who provide performance information. The evaluation will take into account past performance information regarding predecessor companies, key personnel who have relevant experience, and subcontractors that will perform major or critical aspects of the work. (Note: Although the Government may obtain past performance information from other sources, it is the offeror's responsibility to provide past performance information and explain how the information is relevant to this acquisition.)

EVAL-5.5 Utilization of Small Business Concerns. The Government will evaluate the offeror's record of compliance with FAR 52.219-8 and (if applicable) the offeror's record of execution of subcontracting plans. Additionally, the Government will evaluate the offeror's proposed utilization of small business concerns for this contract.

EVAL-5.6 Source Selection Decision. The Contracting Officer, independently exercising prudent business judgment, will make the source selection decision based on the proposal that represents the best value to the Government. The Contracting Officer will not receive a recommendation from any individual or body as to which offeror should receive the award and additionally will not receive a rank order or order of merit list pertaining to the offers being evaluated.

PROJECT TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

01110 SUMMARY OF WORK
01270 MEASUREMENT AND PAYMENT
01310 ADMINISTRATIVE PROCEDURES
01312 QUALITY CONTROL SYSTEM (QCS)
01321 CONSTRUCTION PROGRESS DOCUMENTATION
01330 SUBMITTAL PROCEDURES
01355 ENVIRONMENTAL PROTECTION
01420 SOURCES FOR REFERENCE PUBLICATIONS
01451 CONTRACTOR QUALITY CONTROL
01500 TEMPORARY CONSTRUCTION FACILITIES
01525 GENERAL SAFETY REQUIREMENTS
01780 CLOSEOUT SUBMITTALS
01781 OPERATION AND MAINTENANCE DATA

DIVISION 02 - SITE CONSTRUCTION

02140 DEWATERING
02220a DEMOLITION
02300a EARTHWORK
02457N STEEL SHEET PILES
02459a PILING: COMPOSITE, WOOD AND CAST IN-PLACE CONCRETE
*02540 PILING: PRECAST CONCRETE COMPOSITE *

DIVISION 03 - CONCRETE

03307a CONCRETE FOR MINOR STRUCTURES

DIVISION 05 - METALS

05055A METALWORK FABRICATION, MACHINE WORK, MISCELLANEOUS PROVISIONS
05502a METALS: MISCELLANEOUS, STANDARD ARTICLES, SHOP FABRICATED ITEMS

DIVISION 06 - WOOD AND PLASTICS

06102 PLASTIC LUMBER

DIVISION 08 - DOORS AND WINDOWS

08110 STEEL DOORS AND FRAMES FOR CONTROL BUILDING
08710 DOOR HARDWARE FOR CONTROL BUILDING

DIVISION 09 - FINISHES

09965A PAINTING: HYDRAULIC STRUCTURES

DIVISION 10 - SPECIALTIES

10201 METAL WALL LOUVERS FOR CONTROL BUILDING

DIVISION 13 - SPECIAL CONSTRUCTION

13130 PRECAST CONCRETE BUILDING

DIVISION 15 - MECHANICAL

Canaveral Lock Painting and Other
Repairs, Canaveral Harbor, Florida

W912EP-04-R-0017

15010A HYDRAULIC POWER SYSTEMS FOR CIVIL WORKS STRUCTURES

DIVISION 16 - ELECTRICAL

16050N BASIC ELECTRICAL MATERIALS AND METHODS

16407N MARINA ELECTRICAL WORK

-- End of Project Table of Contents --

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION						CONTRACTOR											
Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION REVIEWER	SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01270	SD-01 Preconstruction Submittals Schedule of Values														
		01310	SD-01 Preconstruction Submittals List of Subcontractors Signature Authority Drug-Free Work Place Record														
		01312	SD-01 Preconstruction Submittals First QCS Export														
		01321	SD-01 Preconstruction Submittals Construction Schedule Equipment Delivery Schedule	1.2 1.3													
		01330	SD-01 Preconstruction Submittals Export File														
		01355	SD-01 Preconstruction Submittals Environmental Protection Plan SD-11 Closeout Submittals Logs/Final Summary Report Project Environmental Summary Sheet														
		01451	SD-01 Preconstruction Submittals Laboratory Qualifications Contractor Quality Control (CQC) Plan Letter of Authority														
		01500	SD-01 Preconstruction Submittals Mobilization/Demobilization Plan														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01500	Security Plan														
			SD-02 Shop Drawings														
			Site Layout														
			Temporary Electric Drawings														
			SD-07 Certificates														
			Boat Operator's License														
		01525	SD-01 Preconstruction Submittals														
			Accident Prevention Plan (APP)	1.6	G COR												
			Activity Hazard Analyses (AHA)	1.7	G COR												
			Employee Safety and Health														
			Indoctrination (ESHI) and Training														
			Plan														
			Hazard Communication Plan	1.9													
			Emergency Response Plan	1.11													
			Hurricane and Severe Storm Plan	1.10	G COR												
			Dive Operations Plan		G COR												
			Critical Lift Plan		G COR												
			Confined Space Plan	1.14	G COR												
			Spill Response Plan		G COR												
			SD-04 Samples														
			Sample Scaffold														
			SD-07 Certificates														
			Safety Officer Qualifications	1.16.1	G COR												
			Crane Equipment	1.21.5													
		01780	SD-02 Shop Drawings														
			As-Built Drawings	1.2.1	G COR												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR											
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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01780	SD-03 Product Data														
			As-Built Record of Equipment and Materials	1.2.2	G COR												
		02220a	SD-03 Product Data Work Plan														
		02300a	SD-08 Manufacturer's Instructions														
			Plan of Operations														
			Satisfactory and Select Fill														
			Nuclear Density Testing														
			Equipment Operator														
			SD-09 Manufacturer's Field Reports														
			Survey Records														
		02457N	SD-02 Shop Drawings														
			Steel sheet piles	2.1													
			SD-06 Test Reports														
			Interlock	2.1													
			SD-07 Certificates														
			Material certificates	1.5.1													
			Pile driving equipment	1.6.1													
			SD-11 Closeout Submittals														
			Pile driving record	3.4													
		02459a	SD-02 Shop Drawings														
			Pile Driving		G ED												
			SD-03 Product Data														
			Equipment	1.4													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR											
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		02540	SD-02 Shop Drawings														
			Piles														
			SD-03 Product Data														
			Equipment	1.6													
			SD-06 Test Reports														
			Concrete Mixture Proportions														
			Pile Driving		G ED												
			SD-08 Manufacturer's Instructions														
			Manufacturer's quality control procedures														
		03307a	SD-03 Product Data														
			Air-Entraining Admixture	2.1.3.1													
			Water-Reducing or Retarding Admixture	2.1.3.2													
			Curing Materials	2.1.8													
			Reinforcing Steel	2.1.5													
			Batching and Mixing Equipment	3.1.4.3													
			Conveying and Placing Concrete	3.2													
			Formwork	2.1.6													
			SD-06 Test Reports														
			Aggregates	2.1.2													
			Concrete Mixture Proportions	1.3.3													
			SD-07 Certificates														
			Cementitious Materials	2.1.1													
			Aggregates	2.1.2													
		05055A	SD-02 Shop Drawings														

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR											
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION REV R	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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		05055A	Detail Drawings	1.3	G												
			SD-03 Product Data														
			Welding of Structural Steel	2.2.2.1													
			Welding of Aluminum	2.2.2.2													
			Structural Steel Welding Repairs	2.3.4													
			Materials Orders	2.1.1													
			Materials List	2.1.2													
			Shipping Bill	2.1.3													
			SD-06 Test Reports														
			Tests, Inspections, and Verifications	2.3													
			SD-07 Certificates														
			Qualification of Welders and Welding Operators	1.4													
			Welding of Aluminum	2.2.2.2													
		05502a	SD-02 Shop Drawings														
			Shop Fabricated Metal Items	2.2	G COR												
			SD-03 Product Data														
			Sheaves and Rollers		G ED												
			Wire Rope		G ED												
			Miscellaneous Metals and Standard Metal Articles	2.1													
			Shop Fabricated Metal Items	2.2													
			SD-06 Test Reports														
			Miscellaneous Metals and Standard Metal Articles	2.1													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
Canaveral Lock Painting and Other Repairs (Rev Am 0004)

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
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		05502a	Shop Fabricated Metal Items	2.2													
		06102	SD-02 Shop Drawings														
			Fenders, splices and walkway supports		G EN												
			SD-03 Product Data														
			Catalog number of each size lumber member														
			SD-04 Samples														
			Color Schedule	2.4.2													
			SD-06 Test Reports														
			Delivery Inspection Report														
			SD-07 Certificates														
			Structural plastic lumber (SPL) and fiberglass reinforced plastic (FRP) lumber	1.4.1	G EN												
		08110	SD-02 Shop Drawings														
			Doors	2.1	G ED												
			Frames	2.1	G ED												
			Weatherstripping	3.1													
			SD-03 Product Data														
			Doors	2.1	G ED												
			Frames	2.1	G ED												
			Accessories	1.3													
			Weatherstripping	3.1													
			SD-07 Certificates														
			Doors	2.1	G ED												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR											
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		08710	SD-03 Product Data														
			Hardware items	2.2													
			SD-08 Manufacturer's Instructions														
			Installation														
			SD-11 Closeout Submittals														
			Key biting	1.4													
		09965A	SD-03 Product Data														
			Accident Prevention Plan		G												
			SO														
			Confined Space Procedures		G												
			Respiratory Protection Program		G												
			Airborne Sampling Plan		G												
			Ventilation Assessment		G												
			Medical Surveillance Plan		G												
			Worker Protection Plan		G												
			Environmental Compliance Plan		G												
			Waste Classification, Handling, and Disposal Plan		G												
			COR														
			Containment Plan		G												
			Support Structure														
			Containment Material														
			Ventilation														
			Exhaust														
			Lighting														
			Visible Emissions Monitoring Plan		G												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR											
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		09965A	Ambient Air Monitoring Plan		G												
			Water Quality Plan		G												
			SD-04 Samples														
			Specification and Proprietary Paints		G												
			COR														
			Thinners		G												
		10201	SD-02 Shop Drawings														
			Wall louvers	2.2	G ED												
			SD-03 Product Data														
			Louvers		G ED												
			SD-07 Certificates														
			Wall louvers	2.2	G ED												
			louvers														
		13130	SD-02 Shop Drawings														
			Steel Doors		G EDS												
			SD-03 Product Data														
			Manufacturer's Catalog Data														
			Qualifications	1.3.4													
			SD-07 Certificates														
			Design Certification		G ED												
			Plant Certification														
		15010A	SD-02 Shop Drawings														
			Schematic and Drawings	1.9	G ED												
			SD-03 Product Data														

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION						CONTRACTOR											
Canaveral Lock Painting and Other Repairs (Rev Am 0004)						CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
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		15010A	Materials and Mechanical Equipment	2.1	G ED												
			Electrical Equipment	2.2	G ED												
			System Description	1.3	G ED												
			Design and Performance Requirements	1.4	G ED												
			Shop Assembly and Testing	2.4	G ED												
			Cleaning and Flushing the System	3.1.2	G ED												
			Field Testing	3.3.1	G ED												
			Warranty		G ED												
			SD-06 Test Reports														
			Shop Tests	2.4	G ED												
			Field Tests	3.3.3.3	G ED												
			SD-10 Operation and Maintenance Data														
			Operation and Maintenance	1.8	G ED												
		16407N	SD-02 Shop Drawings														
			Wireways	2.13	G												
			SD-03 Product Data														
			Receptacles	2.8													
			Disconnect switches	2.7	G												
			Conduit and fittings	2.2													
			Grounding and bonding equipment	2.12													
			Device plates	2.6													
			Wires and cables	2.5													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
Canaveral Lock Painting and Other Repairs (Rev Am 0004)

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
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		16407N	Outlet boxes and covers	2.3													
			Splice and termination components	2.5.6													
			Wireways	2.13													
			Cabinets, junction boxes, and pull boxes	2.4													
			Mounting straps	2.11													
			Conduit support	3.1.3.1													
			SD-06 Test Reports														
			Grounding system test	3.3.3	G												

SECTION TABLE OF CONTENTS

DIVISION 02 - SITE CONSTRUCTION

SECTION 02540

PILING: PRECAST CONCRETE COMPOSITE

07/04

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SUBMITTALS
- 1.3 EXPERIENCE
- 1.4 DESIGN AND PERFORMANCE REQUIREMENTS
- 1.5 SUBSURFACE DATA
- 1.6 EQUIPMENT
 - 1.6.1 Pile Hammer
 - 1.6.1.1 Driving Cap and Cushion Block
- 1.7 STORAGE AND HANDLING

PART 2 PRODUCTS

- 2.1 CONCRETE
 - 2.1.1 Reinforcing Steel
 - 2.1.2 Aggregates
 - 2.1.3 Admixtures
 - 2.1.3.1 Expansive Agents
 - 2.1.4 Strength Tests
- 2.2 FIBERGLASS TUBING
 - 2.2.1 Ultraviolet Radiation Resistance
- 2.3 PRODUCT QUALITY CONTROL

PART 3 EXECUTION

- 3.1 HANDLING OF PILES
- 3.2 UNDERWATER OBSTRUCTIONS
 - 3.2.1 Existing Scour Protection
- 3.3 INSTALLATION
 - 3.3.1 Lengths
 - 3.3.2 Placement
 - 3.3.3 Driving
 - 3.3.3.1 Damaged Piles
 - 3.3.4 Jetting of Piles

-- End of Section Table of Contents --

SECTION 02540

PILING: PRECAST CONCRETE COMPOSITE
07/04

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C 31/C 31M	(2000) Making and Curing Concrete Test Specimens in the Field
ASTM C 39/C 39M	(2001) Compressive Strength of Cylindrical Concrete Specimens
ASTM C 172	(1999) Sampling Freshly Mixed Concrete
ASTM D-696	(2003) Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics between -30°C and 30°C
ASTM D 2310	(2001) Standard Classification for Machine-Made "Fiberglass" (Glass-Fiber Reinforced Thermosetting-Resin) Pipe
ASTM D 2996	(2001) Standard Specification for Filament-Wound "Fiberglass" (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe
ASTM G 154	(2000) Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI)

PCI MNL-116	(1999) Quality Control for Plants and Production of Precast Prestressed Concrete Products
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1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Piles

Indicate outside diameter and wall thickness of composite reinforcement tube. Provide sufficient detail to substantiate appropriate strength for fiberglass reinforcing tube. Indicate location of special embedded or attached lifting devices, employment of pick-up points, and support points other than pick-up points.

SD-03 Product Data

Equipment;

A complete report describing the pile driving equipment, submitted prior to pile driving.

SD-06 Test Reports

Concrete Mixture Proportions;

Submit the concrete mixture proportions, and applicable test reports that verify the selected mix design will produce concrete of the quality specified.

Pile Driving; G| ED

A complete and accurate record of each driven pile. The record shall indicate the pile location (as driven), size, length, final elevations of tip and top, blows required for each foot of penetration throughout the entire length of the pile and for the final 6 inches of penetration, and the total driving time. The record also shall include the type and size of the hammer used, the rate of operation, and the type and dimensions of the driving helmet and cushion block used. Any unusual conditions encountered during pile installation shall be recorded and immediately reported to the Contracting Officer. Submit two copies of records within 3 days after each pile is driven.

SD-08 Manufacturer's Instructions

Manufacturer's quality control procedures;

1.3 EXPERIENCE

The work shall be performed by a Contractor having experience installing the specified piling.

1.4 DESIGN AND PERFORMANCE REQUIREMENTS

Concrete design and performance requirements shall conform to Section 03307A, CONCRETE FOR MINOR STRUCTURES, except that construction tolerances do not apply.

1.5 SUBSURFACE DATA

Subsurface soil data logs are shown on the drawings.

1.6 EQUIPMENT

1.6.1 Pile Hammer

Pile driving hammers shall be impact. The size or capacity of hammers shall be as recommended by the manufacturer for the pile weights and soil formation to be penetrated.

1.6.1.1 Driving Cap and Cushion Block

The driving cap shall be of a design capable of protecting pile heads, minimizing energy absorption and transmitting hammer energy uniformly and consistently to piles. The driving cap shall fit snugly on the top of the piles.

1.7 STORAGE AND HANDLING

Piles shall be stored and handled avoiding overstress or any other condition that may cause injury to the piles.

PART 2 PRODUCTS

2.1 CONCRETE

Concrete shall conform to Section 03307A, CONCRETE FOR MINOR STRUCTURES, except that the minimum compressive strength shall 6000 psi at 28 days, in addition to the following exceptions.

2.1.1 Reinforcing Steel

No reinforcing steel shall be used.

2.1.2 Aggregates

Aggregate shall be free of any substance which may be deleteriously reactive with alkalis in cement, in an amount sufficient to cause excessive expansion of concrete.

2.1.3 Admixtures

Do not use mixtures containing chlorides.

2.1.3.1 Expansive Agents

An expansive agent (or combinations of agents) shall be used to achieve a minimum permanent positive stress of 25 psi against the inside wall of the fiberglass tubing. Admixture may be a plastic-state or early-hardened-state type.

2.1.4 Strength Tests

Sample concrete in accordance with ASTM C 172, when concrete is deposited for each production placement. Prepare at least three compression test specimens per day, or one for every 30 cubic yards of concrete placed, whichever is greater, in accordance with ASTM C 31/C 31M. Cure cylinders in same manner as piles and for accelerated curing, place at coolest point in casting bed. Perform compression tests in accordance with ASTM C 39/C 39M. Test one specimen of each set at 7 days. Test remaining specimens of each set at 28 days. The strength of the concrete will be considered

satisfactory so long as the average of three consecutive acceptance test results equal or exceed the specified compressive strength, f'c, and no individual acceptance test result falls below f'c by more than 500 psi.

2.2 FIBERGLASS TUBING

Fiberglass tubing and fittings shall be produced of polymers or resinous materials that have been formed by means of pultrusion, extrusion molding, filament winding, or a combination thereof, in accordance with applicable requirements of ASTM D 2310 and ASTM D 2996. Tubing shall be manufactured from continuous glass roving impregnated with vinyl ester, polyester, or epoxy resin, and wound under controlled tension around a steel mandrel. The portion of tubing considered for structural strength shall be 60 to 70 percent glass with a minimum of 25 percent resin (by weight). Silica sand or other fillers shall not be permitted. Material dimensional and physical stability shall satisfy ASTM D-696. The manufactured tubes shall be capable of withstanding normal handling, shipment, and installation procedures.

2.2.1 Ultraviolet Radiation Resistance

Tubing shall exhibit no more than 10% strength loss under accelerated environmental testing for not less than 3,000 exposure hours, in accordance with ASTM G 154, where test conditions are intended to mimic installed conditions, and measure long-term, service-life performance.

2.3 PRODUCT QUALITY CONTROL

Perform product quality control in accordance with PCI MNL-116.

PART 3 EXECUTION

3.1 HANDLING OF PILES

Special care shall be taken in supporting piles to prevent the inducing of excessive bending stresses in the piles. Piles shall be carefully handled without dropping, breaking of outer fibers or penetrating the surface with tools. Peaveys, cant hooks, pikes and other pointed tools shall not be used in handling piles.

3.2 UNDERWATER OBSTRUCTIONS

The Contractor shall notify the Contracting Officer immediately if any unknown underwater obstructions are encountered.

3.2.1 Existing Scour Protection

Riprap scour protection exists in the work area. The approximate limits of existing riprap are shown on the drawings.

3.3 INSTALLATION

3.3.1 Lengths

The lengths of the piles shall be as indicated on the drawings. To provide for "heading" or cutting off normal after driving, piles shall be furnished in lengths at least one foot greater than the lengths specified to be below the cut-off elevations.

3.3.2 Placement

Piles shall be accurately placed in the correct locations and alignments both laterally and longitudinally and to the vertical or batter lines as shown on the contract drawings. A longitudinal deviation from the correct location at the cut-off elevation of not more than three (3) inches will be permitted. The correct relative position of group piles shall be maintained by the use of templates or by other means. Piles incorrectly placed shall be pulled and redriven at no additional cost to the Government. If a pile is driven below the elevation fixed by the drawings, it shall be withdrawn and replaced by a new, and if necessary as determined by the Contracting Officer, a longer pile at the expense of the Contractor. Driving batter piles vertically and then pulling them into position will not be permitted. Driving batter and/or vertical piles so that the butt is more than three (3) inches from the required lateral and/or longitudinal location and then pulling them into position will not be permitted.

3.3.3 Driving

A complete and accurate record of the driving of piles shall be compiled by the Contractor for submission to the Contracting Officer. During driving, pile driving hammers shall be operated at all times at the rate and conditions recommended by the hammer manufacturer. Each pile shall be driven continuously and without interruption until the required tip elevation has been attained. Deviation from this procedure will be permitted only in the case that the driving is stopped by causes which could not have been reasonably anticipated. The blow count shall not exceed 25 blows per linear foot. Piles shall be driven to the full penetration required where practicable to do so without damage to the piles. Driving of piles beyond the point of refusal, as indicated by excessive bouncing of the hammer or kicking of the pile shall not be attempted. Piles which have uplifted after driving shall be redriven to grade after conclusion of driving in that general area. The use of followers will not be permitted. After driving is completed, all piles shall be "headed" or cut-off level/horizontal at the cut-off elevation. Cut-offs shall become the property of the Contractor and shall be removed at the Contractor's expense.

3.3.3.1 Damaged Piles

Driving of piles shall not subject them to damage. Piles which are damaged (split or broken) by reason of internal defects or by improper driving below "cut-off" elevation so as to impair them for the purpose intended shall be removed and replaced, or at the option of the Contracting Officer, a second pile may be driven adjacent thereto at the Contractor's expense. Minor damaged areas of piles shall be brush coated with a commercially available roofing compound. The Contracting Officer may require the Contractor to pull certain selected piles after driving for test and inspection to determine the conditions of the piles. Any pile so pulled and found to be damaged to such extent as, in the opinion of the Contracting Officer, would impair its usefulness in the completed structure shall be removed from the work and the Contractor shall furnish and drive a new pile to replace the damaged pile. Piles pulled and found to be sound and in a satisfactory condition shall be redriven.

3.3.4 Jetting of Piles

Jetting of piles will not be permitted.

* Canaveral Lock Painting and Other
Repairs, Canaveral Harbor, Florida

W912EP-04-R-0017

-- End of Section --

Appendix 09965A-A: Daily Inspection Checklist for Steel Substrates

This checklist shall be completed daily when coating operations are being performed. Record the item being worked on as the general area (e.g. Canaveral Lock Sector Gate No. 1), and the specific location of the work being performed (e.g., upstream skin plate, lower third). The report number shall correspond to that of the Contractors Daily Quality Control Report. Address only the applicable attributes by marking the SAT or UNSAT columns. Some items require an entry be recorded within the "Comment" column e.g., Degree of Cleanliness / Profile. Enter N/A, for those that are not applicable, e.g., if first coat is being applied, Recoat Time Observed is not applicable. Any additional comments can be entered in the "Comment" column. The completed checklist is to be signed and dated by the Contractor's Quality Control Manager and the Government's Quality Assurance Representative.

DAILY INSPECTION CHECKLIST FOR STEEL SURFACES

<u>ITEM</u>			<u>REPORT #</u>
<u>SPECIFIC LOCATION</u>	<u>SAT</u>	<u>UNSAT</u>	<u>COMMENTS</u>
<u>I. PRE-SURFACE PREPARATION</u>			
1. <u>Condition of Edges, Weld Spatter, etc.</u>			
2. <u>Grease/Oil</u>			
3. <u>Visible Moisture</u>			
4. <u>Protective Coverings</u>			
5. <u>Clean Dry Abrasive</u>			
6. <u>Recycled Abrasive Test</u>			
7. <u>Nozzle Air Pressure (Record)</u>			
8. <u>Compressed Air Cleanliness (Record)</u>			
<u>II. SURFACE PREPARATION</u>			Wet Bulb: Humidity:
9. <u>Ambient Conditions (Record) Time of Day:</u>			Dry Bulb: Dew Pt.:
10. <u>Degree of Cleanliness (Record)</u>			Amb. Air: Surf Temp:
11. <u>Profile (Record)</u>			
12. <u>Type and Size Abrasive (Record)</u>			
13. <u>Dust and Abrasive Removal</u>			
14. <u>Time of Surface Acceptance</u>			
15. <u>Square Footage of Surface Area Prepared (Record)</u>			
<u>III. MIXING</u>			Product Name:
16. <u>Product Name/Mfgr/Batch Numbers (Record)</u>			Manfr:
17. <u>Clean Equipment</u>			Batch Number:
18. <u>Material Temperature/Potlife (Record)</u>			
19. <u>Thinner/Type and Amount (Record)</u>			
20. <u>Time of Mix (Record)</u>			
21. <u>Volume of Product Mixed (Record, Gallons)</u>			
<u>IV. APPLICATION</u>			Wet Bulb: Humidity:
22. <u>Ambient Conditions (Record) Time of Day:</u>			Dry Bulb: Dew Pt.:
23. <u>Applicator's Name (Record)</u>			Amb. Air: Surf Temp:
24. <u>Surface Prep. to Appl. (Record Elapsed Time)</u>			
25. <u>Compressed Air Cleanliness</u>			
26. <u>Protective Coverings</u>			
27. <u>Time Application Began & Surf. Temp. (Record)</u>			
28. <u>Surrounding Air Cleanliness</u>			
29. <u>Recoat Times Observed</u>			
30. <u>Intercoat Cleanliness</u>			
31. <u>Proper Pot Agitation</u>			
32. <u>Type of Application Equip. & Tip Size (Record)</u>			
33. <u>Time Application Complete & Surf. Temp. (Record)</u>			
34. <u>Square Footage of Surface Area Coated (Record)</u>			
35. <u>Volume of Coating Wasted (Record, Gallons)</u>			
<u>V. INSPECTION</u>			
36. <u>Visual Appearance</u>			
37. <u>Dry Film Thickness (Record)</u>			
38. <u>Holiday Test</u>			
39. <u>Cure Test</u>			

Contractor's Quality Control Manager

Date

Government Inspector

Date