

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Cost-Plus-Fixed-Fee

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2. Amendment/Modification No. P00006	3. Effective Date 2013FEB07	4. Requisition/Purchase Req No. SEE SCHEDULE	5. Project No. (If applicable)
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6. Issued By U.S. ARMY CONTRACTING COMMAND TROY HAARALA WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: TROY.HAARALA@US.ARMY.MIL	Code W56HZV	7. Administered By (If other than Item 6) DCMA PHILADELPHIA 700 ROBBINS AVENUE, BLDG 4-A P.O. BOX 11427 PHILADELPHIA PA 19111-0427	Code S3915A
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8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) PPG INDUSTRIES, INC. 4325 ROSANNA DR ALLISON PARK, PA 15101-1423	<input type="checkbox"/>	9A. Amendment Of Solicitation No.
	<input type="checkbox"/>	9B. Dated (See Item 11)
	<input checked="" type="checkbox"/>	10A. Modification Of Contract/Order No. W56HZV-09-C-0601
	<input type="checkbox"/>	10B. Dated (See Item 13) 2009SEP25
Code 3MBH8	Facility Code	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers

is extended, is not extended.

Offers 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 amendments; (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)

ACRN: AC NET INCREASE: \$449,888.00

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS
It Modifies The Contract/Order No. As Described In Item 14.**

<input type="checkbox"/>	A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A.	The Changes Set Forth In Item 14 Are Made In
<input type="checkbox"/>	B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).	
<input checked="" type="checkbox"/>	C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:	per mutual agreement of the parties
<input type="checkbox"/>	D. Other (Specify type of modification and authority)	

E. IMPORTANT: Contractor is not, 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.)

SEE SECOND PAGE FOR DESCRIPTION

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) LYNN M. BYRNE LYNN.M.BYRNE@US.ARMY.MIL (586)282-6553		
15B. Contractor/Offeror (Signature of person authorized to sign)	15C. Date Signed	16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	16C. Date Signed 2013FEB07

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MOD/AMD P00006

Name of Offeror or Contractor: PPG INDUSTRIES, INC.

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: TROY HAARALA
Buyer Office Symbol/Telephone Number: CCTA-ASG-C/(586)282-6282
Type of Business: Large Business Performing in U.S.
Surveillance Criticality Designator: C
Weapon System: No Identified Army Weapons Systems
Kind of Modification: Supplemental Agreement Incl. No Cost Partial Termination Stlment

*** End of Narrative A0000 ***

Modification P00006

PROGRAM: Advanced Corrosion Protection CLIN 0001

Previous Amount: \$4,173,650.00
Amount this Action: \$ 449,888.00
Total Amount: \$4,623,538.00

1. This is a bilateral modification.
2. The purpose of this modification P00006 is to: a) supplement the effort to include additional efforts described in 3.b below (valued at \$449,888.00), and b) add funding in the amount of \$449,888.00, c) extend the period of performance, and d) updated current required clauses.
3. The contract is hereby modified as follows:
 - a. Section B. CLIN 0004 is increased to add to the current contract amount. SubCLIN 0004AB is created in the amount of \$449,888.00 (\$449,888 in estimated cost and \$0 in fixed fee).
 - b. Section C. New scope of work to add services to further related development to this effort are located in Section C at new paragraphs C.3.19, C.4.8, C.4.9 and C.4.10.
 - c. Section F. Paragraph F.1.1 is revised to extend the period of performance an additional 9 months through December 24, 2014.
 - d. Section G is revised to reflect the contract administration data for the currently available funding.
 - e. Contract clauses are updated with the following additions, revisions and deletions:

ADDS:

252.204-7008	APR 2010	Export-Controlled Items
52.209-9	FEB 2012	Updates of Publicly Available Information Regarding Responsibility Matters
52.215-2	OCT-2010	Audit and Records - Negotiations
52.215-12	OCT-2010	SUBCONTRACTOR CERTIFIED COST OR PRICING DATA
52.215-23	OCT-2009	LIMITATIONS ON PASS-THROUGH CHARGES
252.219-7003	AUG 2012	Small Business Subcontracting Plan (DoD Contracts)
52.222-20	OCT-2010	Walsh-Healey Public Contracts Act
52.223-5	MAY-2011	Pollution Prevention and Right-to-Know Information
52.223-10	MAY 2011	Waste Reduction Program
52.223-18	AUG 2011	Encouraging Contractor Policies to Ban Text Messaging While Driving
52.232-4087(ACC WARREN)	AUG 2012	Payment Under Wide Area Workflow
252.232-7006	JUN-2012	WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS
52.232-99	AUG-2012	PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS (DEV 2012-00014)
252.242-7005	FEB 2012	Contractor Business Systems
252.242-7006	FEB 2012	Accounting System Administration
252.244-7001	MAY 2011	Contractor Purchasing System Administration
252.245-7001	APR 2012	Tagging, Labeling, and Marking of Government-Furnished Property
252.245-7002	APR 2012	Reporting Loss of Government Property
252.245-7003	APR 2012	Contractor Property Management System Administration
252.245-7004	APR 2012	Reporting, Reutilization, and Disposal
52.248-1	OCT 2010	Value Engineering

REVISIONS:

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52.203-7	OCT-2010	Anti-Kickback Procedures
52.203-12	OCT-2010	Limitation on Payments to Influence Certain Federal Transactions
252.203-7000	SEP-2011	Requirements Relating to Compensation of Former DoD Officials
52.204-4	MAY-2011	Printed or Copied Double-Sided on Recycled Paper
52.204-10	FEB 2012	Reporting Executive Compensation and First-Tier Subcontract Awards
52.204-4005	AUG-2012	REQUIRED USE OF ELECTRONIC CONTRACTING
52.209-6	DEC-2010	Protecting the Governments Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment
252.211-7003	JUN-2011	Item Identification and Valuation - Alt I (Dec 2011)
52.215-10	AUG-2011	Price Reduction for Defective Cost or Pricing Data
52.215-14	OCT-2010	Integrity of Unit Prices
52.215-15	OCT-2010	Pension Adjustments and Asset Reversions
52.216-7	JUN-2011	Allowable Cost and Payment
52.216-8	JUN-2011	Fixed Fee
52.219-8	JAN 2011	Utilization of Small Business Concerns
52.219-9	JAN-2011	Small Business Subcontracting Plan
52.219-28	APR 2012	Post-Award Small Business Program Representation
52.222-19	MAR 2012	Child Labor - Cooperation with Authorities and Remedies
52.222-35	SEP-2010	Equal Opportunity For Veterans
52.222-36	OCT-2010	Affirmative Action for Workers With Disabilities
52.222-54	JUL-2012	EMPLOYMENT ELIGIBILITY VERIFICATION
252.223-7006	APR-2012	Prohibition on Storage and Disposal of Toxic and Hazardous Materials
252.225-7001	JUN-2012	Buy American Act and Balance of Payments Program
252.225-7002	JUN-2012	QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS
252.225-7006	OCT-2010	Quarterly Reporting of Actual Contract Performance Outside the United States and Canada Submission after Award
252.225-7012	JUN-2012	Preference for Certain Domestic Commodities
252.225-7013	JUN-2012	DUTY-FREE ENTRY
252.225-7016	JUN-2011	Restriction on Acquisition of Ball and Roller Bearings
52.227-4004	OCT-2012	RELEASE OF INFORMATION
252.227-7013	FEB-2012	Rights in Technical Data - Non-Commercial Items
252.227-7015	DEC-2011	TECHNICAL DATA--COMMERCIAL ITEMS
252.227-7016	JAN-2011	Rights in Bid or Proposal Information
252.227-7019	SEP-2011	Validation of Asserted Restrictions - Computer Software
252.227-7037	JUN-2012	Validation of Restrictive Markings on Technical Data
252.227-7038	JUN 2012	Patent Rights - Ownership by the Contractor (Lg Bus)
52.230-2	MAY 2012	Cost Accounting Standards
52.232-17	OCT-2010	Interest
252.232-7003	JUN-2012	ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS
52.244-2	OCT-2010	Subcontracts
52.245-1	APR-2012	Government Property
52.245-9	APR-2012	Use and Charges

DELETES:

52.209-8	APR-2010	UPDATES OF INFORMATION REGARDING RESPONSIBILITY MATTERS
52.223-14	AUG 2003	Toxic Chemical Release Reporting
52.246-4026 (LOCAL WARREN)	AUG 2010	Local Address for DD 250 and WAWF Receiving Reports

f. Exhibit A. Exhibit A is updated for new SOW citations and other changes to submission requirements.

4. As a result of this modification P00006, the amount of CLIN 0004 is increased by \$449,888.00 from \$2,091,214.00 to \$2,541,102, and the total amount of the contract is increased by \$449,888.00, from \$4,173,650.00 to \$4,623,538.00.

5. The contractor agrees that this is a complete and final equitable adjustment for Modification P00006, and the contractor releases the Government from any liability under this contract for any further equitable adjustments attributable to the facts or circumstances giving rise to Modification P00006.

6. All other terms and conditions of the contract are unchanged and in full force and effect.

*** END OF NARRATIVE A0006 ***

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
0004	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>DELIVERABLE SERVICE</u></p> <p>GENERIC NAME DESCRIPTION: CORROSION PROTECTION</p> <p>Contractor shall furnish all the supplies and services to accomplish the task specified in Section C Scope of Work.</p> <p>*Est. Cost: \$2,404,294 Fixed-fee: \$ 136,808 *Total Amount: \$2,541,102</p> <p>*Changed per Mod. P00006</p> <p>(End of narrative B001)</p>													
0004AB	<p><u>SERVICE CLIN</u></p> <p>GENERIC NAME DESCRIPTION: DEV OF CORROSION RES COATINGS PRON: R322J015R3 PRON AMD: 01 ACRN: AC AMS CD: 0000000403 CUSTOMER ORDER NO: DWAM20410</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u></p> <table border="0"> <tr> <td>DLVR SCH</td> <td></td> <td>PERF COMPL</td> </tr> <tr> <td><u>REL CD</u></td> <td><u>QUANTITY</u></td> <td><u>DATE</u></td> </tr> <tr> <td>001</td> <td>1</td> <td>24-DEC-2014</td> </tr> </table> <p>\$ 449,888.00</p>	DLVR SCH		PERF COMPL	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	1	24-DEC-2014	1	LO		\$ 449,888.00
DLVR SCH		PERF COMPL												
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>												
001	1	24-DEC-2014												

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

Advanced Corrosion Protection

C.1 Scope.

C.1.1 The contractor shall provide the necessary personnel, facilities, materials and material services to complete the outlined Technology tasks for the U.S. Army.

C.2 Background.

C.2.1 TARDEC develops and supports Department of Defense ground combat and combat support weapons and vehicle systems.

C.2.2 Vehicles require the use of polymeric materials and surface agent pretreatments of metals throughout the body to provide a variety of performance features. Specific examples include materials designed to reduce noise associated with vibrations, reduce heat transfer from engines and transmissions to passenger compartments or protect metal substrates from stone chips, corrosion and abrasion.

C.3 Tasks

C.3.1 The contractor shall evaluate corrosion resistant paint, pretreatments, acoustic coating, thermal barrier coatings and polyurea coatings as standalone coating solutions and in combinations where multiple functional coatings are desired for aluminum and steel substrates. The contractor shall assess feasibility of combining multiple product features into a single coating composition. The contractor shall use the performance specifications and methods identified in Salient Characteristics of Commercial Item Description A-A-59800, Solids Aliphatic Polyurea Coating as a guide in these evaluations in addition to testing for heat transfer and acoustic damping properties. The contractor shall provide materials, scientific and technical expertise in the evaluation of all tests and results. Products and application procedures shall not adversely affect form, fit or function of coated parts of military equipment.

C.3.1.1 The contractor shall characterize acoustic barrier properties of acoustic barrier coatings, thermal barrier coatings, and polyurea coatings in various combinations to allow engineered properties for various uses.

C.3.1.2 The contractor shall characterize thermal barrier properties of acoustic barrier coatings, thermal barrier coatings, and polyurea coatings in various combinations to allow engineered properties for various uses.

C.3.1.3 The contractor shall characterize abrasion and durability resistance of acoustic barrier coatings, thermal barrier coatings, and polyurea coatings in various combinations to allow engineered properties for various uses.

C.3.2 The contractor shall evaluate and demonstrate the use of the zirconate based metal pretreatment in production for aluminum, steel and high strength steel as a replacement for zinc phosphate hexavalent chromium for all CARC paint systems per military specification MIL-DTL-53072.

C.3.3 The contractor shall formulate two and test new corrosion resistant coatings such as metal enriched paints as additional corrosion barriers for steel structures.

C.3.4 The contractor shall demonstrate environmentally friendly coating removal technologies such as aqueous paint strippers with a range of coating chemistries similar to coating systems in use on military vehicles on steel, aluminum, high strength steel and specialty substrates.

C.3.5 The contractor shall conduct laboratory evaluation and outdoor environmental testing of coatings developed for adhesion, corrosion resistance, chip resistance, reflectivity, weathering, decontaminability etc.

C.3.5.1 The contractor shall conduct laboratory evaluations of candidate technologies selected by the government to screen performance vs. military specification requirements, and performance characteristics detailed in military coating performance specifications. For technologies selected by the government for demonstration/testing on military vehicles, the government will provide the applicable vehicle specifications.

C.3.5.2 The contractor shall prepare test samples (flat panels and/or three dimensional panels for testing in the laboratory and for outdoor exposure at the Cape Canaveral Air Force Station test site.

C.3.5.3 The contractor shall predict in-service performance, identify application limits and recommended application parameters to maximize performance by testing coating systems over TARDEC identified substrates and CARC topcoats.

C.3.5.4 The contractor shall identify technology gaps and development needs to improve specification capabilities, and identify applications or performance targets.

C.3.5.5 The contractor shall provide material and provide instruction to teach application in the performance of operational environment demonstrations of candidate technologies to government personnel.

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C.3.5.6 The contractor shall provide analytical expertise and performance testing to validate performance of the coating system throughout the operational environment test period.

C.3.6 Cost Benefit Analysis

C.3.6.1 The contractor shall determine platform specific, life-cycle cost impact of inserting new technology in OEM or depot applications for FMTV and HMMWV family of vehicles.

C.3.6.2 The contractor shall assess and report life-cycle cost impact of; product and application cost, service life improvement, maintenance cost reduction, and performance or safety impacts where applicable for FMTV and HMMWV family of vehicles.

C.3.6.3 The contractor shall identify and report product characteristics, application methods and manufacturing processes to optimize life-cycle cost benefits.

C.3.7 Coordination

C.3.7.1 The contractor shall draft coating specification development through material submissions to the Army Research Laboratory (ARL) or other appropriate DoD labs.

C.3.7.2 The contractor shall recommend coating application equipment for DOD needs relative to coating application and curing equipment. The contractor shall provide recommendations based on comparative testing of existing technologies with commercial and/or developmental technologies which have the potential to enhance the safety, productivity, or performance of DOD operations.

C.3.7.3 The contractor shall draft work instructions to apply products developed under this contract.

C.3.7.4 The contractor shall identify process improvement opportunities through product changes, application procedures and equipment optimization.

C.3.7.5 The contractor shall demonstrate and perform qualification testing for gray and black electocoat coatings.

C.3.7.6 The contractor shall engage and fund university for material development and characterization. This includes lab testing to demonstrate the value of encapsulated corrosion indicators (NASA), fluorescent corrosion indicators (PSU) and Mg/Zn rich coatings (NDSU).

C.3.8 The contractor shall evaluate flame resistant and lower cost engineered material formulations as well as a field repair system (processes and materials) for engineered materials. The contractor shall prepare work instructions to facilitate process qualification for demonstrated products (CDRL A002).

C.3.8.1 The contractor shall evaluate flame resistant and low cost engineered material formulations in appropriate layering systems for corrosion, thermal and vibration damping performance features over aluminum and steel substrate used in Army systems. The low cost engineered materials will be based on formulations containing aromatic pre-polymers which are less expensive than commercially available formulations based on aliphatic pre-polymers which provide the same function. The contractor shall select materials for testing from their portfolio of coating formulations and determine appropriate layering systems through performance testing in a laboratory environment. The contractor shall use results of this testing to define the layering system by the type of coatings, their location in the coating stack and film thickness. Pretreatments, wash primers, corrosion resistant primers, Chemical Agent Resistant Coating (CARC) topcoats, as well as abrasion, thermal and vibration resistant coatings are examples of materials to be included in these coating evaluations in accordance with MIL-DTL-53072. The contractor shall document results of testing and identification of layering systems in quarterly technical reports (CDRL A002). A Performance and Cost Report shall also be submitted monthly to the TARDEC Program Manager for the duration of this task (CDRL A001).

C.3.8.2 The contractor shall identify appropriate Hazardous Air Pollutant (HAP) free paint stripper technology for use with engineered materials and identify a process for the use of these materials that is compatible with productivity and safety requirements of Army depot operations. Specific requirements will be determined through visits to stakeholders at Army depot locations. Approximately two trips to Albany, Georgia and two trips to Anniston, Alabama are anticipated. Travel will be approved by the COR on a need-basis.

C.3.9 The contractor shall evaluate existing chrome-free, low Volatile Organic Compound (VOC) wash primer technologies and newly developed co-milled, chrome-free, inhibitor pigment primer technologies. The contractor will select specific formulations of chrome-free, low Volatile Organic Compound (VOC) wash primer technologies and newly developed co-milled, chrome-free, inhibitor pigment primer technologies from their portfolio of coatings technologies. The contractor shall document the results of these evaluations in monthly technical reports submitted to TARDEC program managers (CDRL A001). The contractor shall prepare work instructions to facilitate process qualification for demonstrated products (CDRL A002).

C.3.9.1 The contractor shall compare performance of the PPG primers to competitive chrome-free, low VOC wash primers conforming to DOD-P-15328. This specification covers pretreatment wash primer for use on clean metal surfaces of all types as a treatment prior to

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application of the coating system. The contractor shall document the results of these evaluations in monthly technical reports submitted to TARDEC program managers (CDRL A002). The contractor shall also prepare a Performance and Cost Report for this task (CDRL A001).

C.3.9.1.1 The contractors comparison shall assess adhesion and corrosion resistance per Chemical Conversion Coatings and Pretreatments for Ferrous Surfaces (Base for Organic Coatings) TT-C-490.C.3.9.1.2 The contractors comparison shall be conducted over cold rolled steel, aluminum and hot dipped galvanized substrates.C.3.9.1.3. The contractor shall prepare substrates through solvent cleaning and media blasting preparation methods.

C.3.9.2 The contractor shall evaluate wash primers based on co-milled cerium, calcium borate and yttrium chemistries and document findings in a quarterly technical report (CDRL A002).

C.3.9.2.1 The contractors comparison shall assess adhesion and corrosion resistance per federal specification TT-C-490.

C.3.9.2.2 The contractors comparison shall be conducted over cold rolled steel, aluminum and hot dipped galvanized substrates.

C.3.9.2.3 The contractor shall prepare substrates through solvent cleaning and media blasting preparation methods.

C.3.9.4 The contractor shall prepare and submit commercial item descriptions (CDRL A005) and provide technical data to be included in new specifications for subject wash primer technologies by providing technical reports detailing results of adhesion and corrosion resistance testing (CDRL A002). The contractor shall also prepare sample coupons of coating materials for characterization by DoD labs. The contractor shall also prepare a Performance and Cost Report for this task (CDRL A001).

C.3.10 The contractor shall evaluate the use of electrocoat technology as a second coating over pure aluminum coated fasteners. The specific electrocoat formulations shall be selected from the contractors portfolio of coating formulations. Results of testing will be documented in monthly technical reports to be submitted to TARDEC program managers (CDRL A002). The contractor shall prepare work instructions to facilitate process qualification for demonstrated products (CDRL A002). The contractor shall also prepare a Performance and Cost Report for this task (CDRL A001).

C.3.10.1 The contractor shall select existing electrodeposition coatings and test for compatibility with pure aluminum coated fasteners.

C.3.10.1.1 The contractor shall test fasteners with the aluminum/electrocoat coating system for adhesion, corrosion resistance and torque tension.

C.3.10.1.2 The contractor shall evaluate the effect of aluminum plating process variables including pretreatment composition, post treatment rinses, and pretreatment film thickness on coating system performance properties including corrosion resistance, lubricity and adhesion and document findings in a quarterly technical report (CDRL A002).

C.3.10.2 The contractor shall evaluate Chemical Agent Resistant Coating (CARC) primer and topcoat performance over the electrocoated fasteners and document findings in a quarterly technical report (CDRL A002).

C.3.10.3 The contractor shall prepare and submit commercial item descriptions (CDRL A005) and provide technical data to be included in new specifications for subject fastener coating systems by providing technical reports detailing results of adhesion, corrosion resistance and torque tension testing. and the contractor shall prepare sample coupons of coating materials for characterization by DoD labs (CDRL A002). The contractor shall also prepare a Performance and Cost Report for this task (CDRL A001).

C.3.11 The contractor shall evaluate an electrocoat compatible zinc rich primer for effectiveness in improving corrosion resistance of Army vehicles and document findings in a quarterly technical report (CDRL A002).

C.3.11.1 The contractor shall test the corrosion resistance of TARDEC identified substrates coated with and without electrocoat compatible zinc rich primer using a variety of methods.

C.3.11.1.1 The contractor shall compare performance of cold rolled steel and hot rolled steel, (with and without electrocoat compatible zinc rich primer), to galvanized steel for corrosion resistance.

C.3.11.1.2 The contractor shall perform the following tests in order to compare corrosion performance: Standard Practice for Operating Salt Spray (Fog) Apparatus (ASTM B117); cyclic salt spray Cyclic Corrosion Laboratory Test (GMW14872)/Accelerated Corrosion Test (GM9540); and electrochemical tests.

C.3.11.2 The contractor shall use the electrocoat primer with electrocoat compatible zinc rich primer and compare to conventional zinc rich/CARC systems for corrosion resistance.

C.3.11.3 The contractor shall prepare and submit commercial item descriptions (CDRL A005) and technical data to be included in new specifications for subject electrocoat compatible zinc rich coating systems by providing technical reports detailing test results of adhesion, corrosion resistance and appearance (CDRL A002). The contractor shall prepare sample coupons of coating materials for

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characterization by DoD labs. The contractor shall also prepare a Performance and Cost Report for this task (CDRL A001).

C.3.12 The contractor shall secure and demonstrate newly specified CARC powder primer MLP8000.

C.3.12.1 The contractor shall compare existing low cure primer to MLP8000 for corrosion resistance per Primer, Epoxy Coating, Corrosion Inhibiting Lead and Chromate Free (MIL-P-53022).

C.3.12.2 The contractor shall substitute existing chrome-free pigmentation in MLP8000 with newly developed co-milled pigments and test for corrosion resistance per MIL-P-53022.

C.3.13 The contractor shall evaluate paint application and cure equipment for their ability to significantly reduce dry-to-touch time for water-base CARC systems, (Primer Coating, Epoxy, Water Based, Lead and Chromate Free (MIL-P-53030) and Camouflage Coating, Water Dispersible Aliphatic Polyurethane, Chemical Agent Resistant (MIL-DTL-64159)). The goal is to reduce the dry to touch time for these coating systems by 50% relative to current practices.

C.3.13.1 The contractor shall select and evaluate paint application technologies such as high volume low pressure (HVLP) spray guns that permit application at higher viscosity (high build) in order to reduce dry to touch time and improve process efficiency.

C.3.13.1.1 The contractor shall utilize portable 2K gun application equipment to apply high solids waterborne formulations and evaluate effect on dry to touch time.

C.3.13.1.2 The contractor shall select and utilize heated air application processes such as Can Am turbine assisted spray to determine effect on dry to touch time.

C.3.13.2 The contractor shall evaluate coating technologies that will increase the rate of cure in order to reduce the dry to touch time and document findings in a quarterly technical report (CDRL A002).

C.3.13.2.1 The contractor shall evaluate the use of portable infrared (IR) lamps to drive off water and increase cross linking reaction rates in order to reduce dry to touch time and document findings in a quarterly technical report (CDRL A002).

C.3.13.2.2 The contractor shall evaluate the effect of an ultra-violet light (UV) cured primer composition developed for the automotive refinish market for suitability as a CARC capable depot primer and document findings in a quarterly technical report (CDRL A002).

C.3.13.3 The contractor shall evaluate combinations of equipment to determine if synergies can be obtained with high viscosity application and increased cure rate and document findings in a quarterly technical report (CDRL A002).

C.3.13.4 The contractor shall evaluate the effect of application and cure equipment on paint film performance (set to touch, dry through, and dry hard at 50%, 70% and 90% relative humidity (RH)) applied per Chemical Agent Resistant Coating (CARC) System Application Procedures and Quality Control Inspection (MIL-DTL-53072).

C.3.14 The contractor shall evaluate technical feasibility of appropriate advanced corrosion prevention technologies such as polypyrrole coated aluminum flakes, cerium doped clay pigments, particles with encapsulated resin technologies, and ionic liquids for electroplating of pure aluminum. The contractor shall prepare work instructions to facilitate process qualification for demonstrated products (CDRL A002).

C.3.15 The contractor shall demonstrate coatings and other technologies through delivery of coating materials, equipment and application expertise at depots and facilities directed by TARDEC. The contractor shall prepare work instructions to facilitate process qualification for demonstrated products (CDRL A002).

C.3.16 The contractor shall develop cost-benefit analyses for appropriate subject technologies for results of laboratory and demonstration investigations (CDRL A004).

C.3.17 The contractor shall prepare samples for exterior exposure testing, coordinate inspections at regular intervals, and provide analysis of coating performance.

C.3.18 The contractor shall schedule and conduct start of work, biweekly progress meetings and a final meeting with the Contracting Officers Representative. The Contractor shall record minutes at these meetings (CDRL A003).

*C.3.19 As a continuation to initial material screening conducted under C.3.7.6, the contractor shall optimize and demonstrate Magnesium/Zinc (Mg/Zn)-rich coatings for steel substrates.

*C.3.19.1 The contractor shall optimize Mg/Zn coatings as follows:

*C.3.19.1.1 The contractor shall research and develop improved formulas for Mg/Zn-rich coatings, identify the Mg/Zn ratio and pigment loading levels for optimum corrosion protection, adhesion, and flexibility over blasted cold rolled steel.

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.		

*C.3.19.1.2 The contractor shall establish formula compatibility, from C.3.19.1.1 above, with Chemical Agent Resistant Coating (CARC) systems (MIL-DTL-53072) using a MIL-DTL-53022 primer and a MIL-DTL-53039 topcoat.

*C.3.19.1.3 The contractor shall evaluate new Mg/Zn-rich coatings by the standards set forth in Commercial Item Description (CID) A-A-59745 for zinc-rich coatings and MIL-DTL-53072. The contractor shall recommend up to three of the best candidates to the COR and COR will determine approval of them within six weeks. The recommendation shall be sent to the COR on a Technical Report IAW CDRL A002.

*C.3.19.1.4 The contractor shall prepare and ship up to 24 (8 each x 3 candidates) total test panels for accelerated exposure testing of the (up to) three best candidates to the COR for Florida seacoast exposure testing (Cape Canaveral Air Force Station).

*C.3.19.2 The contractor shall expand laboratory validation of their performance by: adding up to three additional substrates (including pretreated cold rolled steel and armor steel) and consider the application of these coatings with alternate CARC paint systems.

*C.3.19.3 The contractor shall optimize the new Mg/Zn-rich coating for in-can stability (storage stability, package viscosity) and application requirements (pot life, application viscosity, VOC, dry time, recoat time).

*C.3.19.4 The contractor shall prepare and ship up to 24 (8 each x 3 candidates) total sample panels of best prototype coatings to the COR for hydrogen embrittlement testing as directed by the COR (for testing at Aberdeen Proving Ground, Aberdeen MD).

*C.3.19.5 The contractor shall recommend one prototype coating best suited for field demonstration and present it to the COR for approval, the COR will determine the demonstration coating selection within 10 working days of submission. The recommendation shall be sent to the COR on a Technical Report IAW CDRL A002.

*C.3.19.6 The contractor shall prepare and submit technical data, product characteristic and application methods, and material safety data sheet information of the approved prototype coating to the COR IAW CDRL A002.

*C.3.19.7 The contractor shall scale-up the approved prototype coating sample to five gallons and deliver to COR for field testing on a Government-furnished vehicle (located at Red River Army Depot, Texarkana, TX).

*C.3.19.8 The contractor shall support field trials at the Army Corrosion Site, Cape Canaveral, FL; Army Research Laboratory (ARL), Aberdeen, MD and Red River Army Depot, Texarkana, TX in a technical service capacity (instruct, demonstrate and observe) to ensure coatings are handled, applied, and cured as specified at C.3.19.6.

*C.3.19.9 The contractor shall complete an assessment of manufacturability of the prototype coating. The content of the assessment will be reported in a technical report (IAW A002).

*C.3.19.10 The contractor shall complete a final technical report addendum for this added effort IAW CDRL A002.

C.4 Deliverables

C.4.1. In accordance with C.3.8.1, C.3.9, C.3.9.1, C.3.9.4, C.3.10, C.3.10.3 and C.3.11.3 the Contractor shall prepare and deliver a monthly Performance and Cost Report (CDRL A001).

C.4.2 In accordance with C.3.8.1, C.3.9, C.3.9.1, C.3.9.2, C.3.9.4, C.3.10, C.3.10.3 and C.3.11.3 the contractor shall compose and deliver interim (quarterly) reports and a final report (CDRL A002) of all evaluations, activities, tests and findings with recommendation for implementation including results of depot and facilities demonstrations highlighting the performance, durability and serviceability of technologies.

C.4.3 In accordance with C.3.9.4, C.3.10.3 and C.3.11.3* the contractor shall prepare technical data for draft material specification and commercial item descriptions submissions (CDRL A005).

C.4.4 In accordance with C.3.8, C.3.9, C.3.10, C.3.14 and C.3.15 the contractor shall prepare work instructions to facilitate process qualification for demonstrated products (CDRL A002). These work instructions will be tailored for use in formats suitable for use in OEM production and suitable for use by Army personnel as additions to DA technical manuals or Data Maintenance Work Requirements (DMWR).

C.4.5 In accordance with C.3.15 the contractor shall provide materials and training necessary for the application of coatings and processes developed under this contract at OEM and field application sites.

C.4.6 In accordance with C.3.18 the contractor shall provide minutes for meetings held (CDRL A003).

C.4.7 In accordance with C.3.16 the contractor shall provide report of cost benefit to confirm expected performance benefits and key life-cycle cost drivers (CDRL A004).

*C.4.8 In accordance with C.3.19.1 and C.3.19.4 the contractor shall provide sample panels for seacoast exposure testing.

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.

*C.4.9 In accordance with C.3.19.4 the contractor shall submit sample panels prepared for hydrogen embrittlement testing to the COR.

*C.4.10 In accordance with C.3.19.5 the contractor shall provide a scaled-up batch of prototype paint in the quantity of five gallons to enable a field test on a government-furnished ground vehicle.

C.5 Government Furnished Equipment/Materials/Property

C.5.1 Government Vehicles (MRAP, FMTV, MTRV, and Stryker) not exceed two vehicles per variant, will be made available at Government depots or OEM facilities (USMC and/or Army) to be used as test platforms for products to be tested.

* Added per Modification P00006

*** END OF NARRATIVE C0001 ***

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SECTION F - DELIVERIES OR PERFORMANCE

F.1 Period of Performance

F.1.1 All effort required under this contract, including delivery of the final technical report, shall be completed no later than December 24, 2014*.

F.2 Data Deliverables

F.2.1 Delivery of data set forth in the contract shall be in accordance with the Contract Data Requirements List, DD Form 1423.

F.3 Material / Hardware Deliverables

F.3.1 All materials / hardware required to be delivered under the contract shall be delivered FOB Destination to the following address:

Commander

U.S. Army TARDEC

ATTN: Scott Porter AMSRD-TAR-E/ME, MS 267

6501 E. 11 Mile Road

Warren, MI 48397-5000

*Changed per modification P00006.

*** END OF NARRATIVE F0001 ***

CONTINUATION SHEET

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	AMS CD/ <u>ITEM</u>	PRON/ <u>MIPR</u>	OBLG <u>STAT</u>	JO NO/ <u>ACCT ASSIGN</u>	<u>ACRN</u>	<u>PRIOR AMOUNT</u>	<u>INCREASE/ DECREASE</u>	<u>CUMULATIVE AMOUNT</u>
0004AB	R322J015R3		2		AC \$	0.00 \$	449,888.00 \$	449,888.00
	0000000403							
	DWAM20410							
						NET CHANGE \$	449,888.00	

<u>ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>	<u>INCREASE/ DECREASE</u>
AC 97	20400112021120150000000251C S49447	\$ 449,888.00
	NET CHANGE \$	449,888.00

	<u>PRIOR AMOUNT OF AWARD</u>	<u>INCREASE/DECREASE AMOUNT</u>	<u>CUMULATIVE OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$ 4,173,650.00	\$ 449,888.00	\$ 4,623,538.00

LINE	<u>ACRN</u>	<u>EDI/SFIS ACCOUNTING CLASSIFICATION</u>
0004AB	AC 97	121304001120 S49447 21120150000000403 251CDWAM20410 S49447

Status Regulatory Cite _____ Title _____ Date _____

G-1 ADDED 52.232-4087 PAYMENT UNDER WIDE AREA WORKFLOW (ACC WARREN) AUG/2012

To obtain payment, WAWF requires the contractor to input/indicate the various DoDAAC (Department of Defense Activity Address Code) codes that apply to the acquisition. These codes can be found on the cover page of contracts/orders as described below.

The document type the contractor shall use is as follows:

- "Combo" is entered if the award is for supplies or supplies and services are being delivered.
- "2in1" is entered if the award is strictly for services being provided/delivered.

USE THE FOLLOWING CODES TO ROUTE YOUR INVOICES THROUGH WAWF:

- Your firms CAGE code (found in Block 15A of SF 33; Block 17a of SF 1449; Block 14 of SF 1442; Block 7 of SF 26)
- Issue and Admin DoDAAC Code (found in Block 7 of SF 33; Block 9 of SF 1449; Block 7 of SF 1442; Block 5 of SF 26)
- Ship-To DoDAAC Code (if deliverables are involved) (found in Section B of the contract where SF 33, SF 1442, or SF 26 is the cover page; Block 15 of SF 1449)
- Accept-By DoDAAC Code: If Inspection/Acceptance is Origin, use the Admin (DCMA)DoDAAC or the DoDAAC of the inspection/acceptance office if different than the Admin DoDAAC; if Destination, use the Ship-To DODAAC Code. If Accepted-By Other: enter the DoDAAC of the activity designated to perform acceptance.
- Payment DoDAAC Code. (found in Block 25 of SF 33; Block 18a of SF 1449; Block 27 of SF 1442; Block 12 of SF 26)

The paying office DoDAAC and mailing address is located on the first page of the award. To track the status of your invoice, click on the link, Pay status (myInvoice-External link) at the bottom of the left-hand menu.

If your paying office is Columbus, direct any payment-related questions to the Defense Finance Accounting Services (DFAS) Columbus at 1-888-756-4571. Please have your order number and invoice ready when calling about payment status. If your paying office is other than Columbus, contact your contract administrator for the customer service phone/fax numbers.

[End of Clause]

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.

SECTION H - SPECIAL CONTRACT REQUIREMENTS

Status Regulatory Cite Title Date

H-1 DELETED 52.246-4026 LOCAL ADDRESSES FOR DD FORM 250 AND WAWF RECEIVING REPORTS AUG/2010

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.

SECTION I - CONTRACT CLAUSES

<u>Status</u>	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1 DELETED	52.209-8	UPDATES OF INFORMATION REGARDING RESPONSIBILITY MATTERS	APR/2010
I-2 ADDED	52.209-9	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS	FEB/2012
I-3 ADDED	52.215-2	AUDIT AND RECORDS--NEGOTIATIONS	OCT/2010
I-4 ADDED	52.215-12	SUBCONTRACTOR CERTIFIED COST OR PRICING DATA	OCT/2010
I-5 ADDED	52.215-23	LIMITATIONS ON PASS-THROUGH CHARGES	OCT/2009
I-6 ADDED	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	JAN/2011
I-7 DELETED	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	MAY/2004
I-8 ADDED	52.222-20	WALSH-HEALEY PUBLIC CONTRACTS ACT	OCT/2010
I-9 ADDED	52.223-5	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION	MAY/2011
I-10 ADDED	52.223-10	WASTE REDUCTION PROGRAM	MAY/2011
I-11 DELETED	52.223-14	TOXIC CHEMICAL RELEASE REPORTING	AUG/2003
I-12 ADDED	52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING	AUG/2011
I-13 DELETED	52.230-2	COST ACCOUNTING STANDARDS	OCT/2008
I-14 ADDED	52.245-1	GOVERNMENT PROPERTY	APR/2012
I-15 ADDED	52.248-1	VALUE ENGINEERING	OCT/2010
I-16 ADDED	252.204-7008	EXPORT-CONTROLLED ITEMS	APR/2010
I-17 ADDED	252.219-7003	SMALL BUSINESS SUBCONTRACTING PLAN (DoD CONTRACTS)	AUG/2012
I-18 ADDED	252.242-7005	CONTRACTOR BUSINESS SYSTEMS	FEB/2012
I-19 ADDED	252.242-7006	ACCOUNTING SYSTEM ADMINISTRATION	FEB/2012
I-20 ADDED	252.244-7001	CONTRACTOR PURCHASING SYSTEM ADMINISTRATION	JUN/2012
I-21 ADDED	252.245-7001	TAGGING, LABELING, AND MARKING OF GOVERNMENT-FURNISHED PROPERTY	APR/2012
I-22 ADDED	252.245-7002	REPORTING LOSS OF GOVERNMENT PROPERTY	APR/2012
I-23 ADDED	252.245-7003	CONTRACTOR PROPERTY MANAGEMENT SYSTEM ADMINISTRATION	APR/2012
I-24 ADDED	252.245-7004	REPORTING, REUTILIZATION, AND DISPOSAL	APR/2012
I-25 CHANGED	252.232-7006	WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS	JUN/2012

(a) Definitions. As used in this clause--

"Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.

"Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

"Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) Electronic invoicing. The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) WAWF access. To access WAWF, the Contractor shall--

(1) Have a designated electronic business point of contact in the Central Contractor Registration at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(d) WAWF training. The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>.

(e) WAWF methods of document submission. Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) WAWF payment instructions. The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) Document type. The Contractor shall use the following document type(s).

Cost Voucher

(2) Inspection/acceptance location. The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.

by the contracting officer.

Destination

(3) Document routing. The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0337
Issue By DoDAAC	W56HZV
Admin DoDAAC	S3915A
Inspect By DoDAAC	n/a
Ship To Code	n/a
Ship From Code	n/a
Mark For Code	n/a
Service Approver (DoDAAC)	W91ATL
Accept at Other DoDAAC	n/a
LPO DoDAAC	n/a
DCAA Auditor DoDAAC	n/a
Other DoDAAC(s)	n/a

(4) Payment request and supporting documentation. The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) WAWF email notifications. The Contractor shall enter the email address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

scott.w.porter.civ@mail.mil

(g) WAWF point of contact. (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

suzanne.m.gibson4.civ@mail.mil

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

(End of clause)

I-26 DELETED 52.204-99 SYSTEM FOR AWARD MANAGEMENT REGISTRATION (DEVIATION 2012-00015) AUG/2012
(DEV 2012-00015)

I-27 ADDED 52.230-2 COST ACCOUNTING STANDARDS MAY/2012

(a) Unless the contract is exempt under 48 CFR 9903.201-1 and 9903.201-2, the provisions of 48 CFR Part 9903 are incorporated herein by reference and the Contractor, in connection with this contract, shall

(1) (CAS-covered Contracts Only) By submission of a Disclosure Statement, disclose in writing the Contractors cost accounting practices as required by 48 CFR 9903.202-1 through 9903.202-5, including methods of distinguishing direct costs from indirect costs and the basis used for allocating indirect costs. The practices disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the Contractor and which contain a Cost Accounting Standards (CAS) clause. If the Contractor has notified the Contracting Officer that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement shall be protected and shall not be released outside of the Government.

(2) Follow consistently the Contractors cost accounting practices in accumulating and reporting contract performance cost data concerning this contract. If any change in cost accounting practices is made for the purposes of any contract or subcontract subject to CAS requirements, the change must be applied prospectively to this contract and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with paragraph

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Name of Offeror or Contractor: PPG INDUSTRIES, INC.

(a)(4) or (a)(5) of this clause, as appropriate.

(3) Comply with all CAS, including any modifications and interpretations indicated thereto contained in 48 CFR Part 9904, in effect on the date of award of this contract or, if the Contractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the Contractors signed certificate of current cost or pricing data. The Contractor shall also comply with any CAS (or modifications to CAS) which hereafter become applicable to a contract or subcontract of the Contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

(4)(i) (Agree to an equitable adjustment as provided in the Changes clause of this contract if the contract cost is affected by a change which, pursuant to paragraph (a)(3) of this clause, the Contractor is required to make to the Contractors established cost accounting practices.

(ii) Negotiate with the Contracting Officer to determine the terms and conditions under which a change may be made to a cost accounting practice, other than a change made under other provisions of paragraph (a)(4) of this clause; provided that no agreement may be made under this provision that will increase costs paid by the United States.

(iii) When the parties agree to a change to a cost accounting practice, other than a change under subdivision (a)(4)(i) of this clause, negotiate an equitable adjustment as provided in the Changes clause of this contract.

(5) Agree to an adjustment of the contract price or cost allowance, as appropriate, if the Contractor or a subcontractor fails to comply with an applicable Cost Accounting Standard, or to follow any cost accounting practice consistently and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States, together with interest thereon computed at the annual rate established under section 6621(a)(2) of the Internal Revenue Code of 1986 (26 U.S.C. 6621(a)(2)) for such period, from the time the payment by the United States was made to the time the adjustment is effected. In no case shall the Government recover costs greater than the increased cost to the Government, in the aggregate, on the relevant contracts subject to the price adjustment, unless the Contractor made a change in its cost accounting practices of which it was aware or should have been aware at the time of price negotiations and which it failed to disclose to the Government.

(b) If the parties fail to agree whether the Contractor or a subcontractor has complied with an applicable CAS in 48 CFR 9904 or a CAS rule or regulation in 48 CFR 9903 and as to any cost adjustment demanded by the United States, such failure to agree will constitute a dispute under the Contract Disputes Act (41 U.S.C. 601).

(c) The Contractor shall permit any authorized representatives of the Government to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.

(d) The Contractor shall include in all negotiated subcontracts which the Contractor enters into, the substance of this clause, except paragraph (b), and shall require such inclusion in all other subcontracts, of any tier, including the obligation to comply with all CAS in effect on the subcontractors award date or if the subcontractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the subcontractors signed Certificate of Current Cost or Pricing Data. If the subcontract is awarded to a business unit which pursuant to 48 CFR 9903.201-2 is subject to other types of CAS coverage, the substance of the applicable clause set forth in subsection 30.201-4 of the Federal Acquisition Regulation shall be inserted. This requirement shall apply only to negotiated subcontracts in excess of \$700,000, except that the requirement shall not apply to negotiated subcontracts otherwise exempt from the requirement to include a CAS clause as specified in 48 CFR 9903.201-1.

(End of clause)

I-28 ADDED 52.232-99 PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS (DEV AUG/2012
(DEV 2012- 2012-00014)
00014)

This clause implements the temporary policy provided by OMB Policy Memorandum M-12-16, Providing Prompt Payment to Small Business Subcontractors, dated July 11, 2012.

(a) Upon receipt of accelerated payments from the Government, the contractor is required to make accelerated payments to small business subcontractors to the maximum extent practicable after receipt of a proper invoice and all proper documentation from the small business subcontractor.

(b) Include the substance of this clause, including this paragraph (b), in all subcontracts with small business concerns.

(c) The acceleration of payments under this clause does not provide any new rights under the Prompt Payment Act.

(End of clause)

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I-29 DELETED 52.245-1

GOVERNMENT PROPERTY (DEVIATION -- DARS TRACKING # 2007-00012)

JUN/2007

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SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST	08-DEC-2010	003	

CONTRACT DATA REQUIREMENTS LIST

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.: 0002
B. EXHIBIT : A
C. CATEGORY.....: Reports
D. SYSTEM/ITEM.....: Advanced Corrosion Protection
E. CONTRACT/PR NO.: W56HZV-09-C-0601
F. CONTRACTOR.....: PPG Industries

1. DATA ITEM NO.: A001
2. TITLE OF DATA ITEM : Performance and Cost Report
3. SUBTITLE: Monthly Progress Reports
4. AUTHORITY: DI-FNCL-80912
5. CONTRACT REFERENCE: C.3, C.4.1, C.3.8.1, C.3.9, C.3.9.1, C.3.9.4, C.3.10, C.3.10.3 and C.3.11.3
6. REQUIRING OFFICE .: RDTA-EN/ME /MS 267
7. DD250 REQ: LT/WAWF

8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: A
10. FREQUENCY : Monthly
11. AS OF DATE:
12. DATE OF FIRST SUB: 60 DAC
13. DATE OF SUBS. SUB: every 30 days
14. DISTRIBUTION ADDRESSEES:

SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:
Scott Porter, Contracting Officer's Representative, E-Mail: Scott.W.Porter.civ@mail.mil
Troy Haarala, Contract Specialist, E-Mail: troy.r.haarala.civ@mail.mil
COGNIZANT ACO, DCMA, See Section G of the contract for name and email

15. TOTAL:
16. REMARKS:
17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A002
2. TITLE OF DATA ITEM : Contractor's Technical Report Study/Services
3. SUBTITLE: Material Specifications, submissions, work instructions, lab results, test results

4. AUTHORITY: DI-MISC-80508B (T)
5. CONTRACT REFERENCE: C.3, C.4.2, C.4.3, C.4.4, C.3.8.1, C.3.9, C.3.9.1, C.3.9.2, C.3.9.4, C.3.10, C.3.10.3, C.3.11.3, C.3.19.1.3, C.3.19.5, C.3.19.6, C.3.19.9 and C.3.19.10.
6. REQUIRING OFFICE .: RDTA-EN/ME /MS 267
7. DD250 REQ: DD/WAWF
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: N/A
10. FREQUENCY....: Quarterly, see Item 16
11. AS OF DATE: Upon contract award
12. DATE OF FIRST SUB: 30 DAC
13. DATE OF SUBS. SUB: Quarterly
14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Scott Porter, Contracting Officer's Representative, E-Mail: Scott.W.Porter.civ@mail.mil
Troy Haarala, Contract Specialist, E-Mail: troy.r.haarala.civ@mail.mil
COGNIZANT ACO, DCMA, See Section G of the contract for name and email

15. TOTAL:
16. REMARKS:

a. DI-MISC-80508B is tailored by deleting paragraph 2, (a) and (b).

b. Base Award First technical report 30 DACA; quarterly thereafter; due 15 days after the period covered. Additionally, the Draft of the Final Technical Report (C.4.2) shall be delivered 2 months before contract completion.

First technical report due 30 DACA; quarterly thereafter; due 15 days after the period covered.

The Draft of the Final Technical Report (C.4.2) shall be delivered no later than 24-Oct-2014.

The draft reports shall include a completed Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The Government will review and respond within 30 days of receipt. The contractor shall submit the Final Technical Report (with the completed SF 298) within 30 days after receipt of draft comments/approval.

c. Technical Reports shall be submitted in contractor format to include information related to research, testing, cost studies and demonstrations to include: feasibility of combining multiple product features into a single coating composition, draft material specification submissions, product characteristics & application methods, material submissions to ARL or other appropriate DoD labs, work instructions to facilitate process qualification for demonstrated products, laboratory evaluation and outdoor environmental test reports, platform specific life-cycle cost impact of inserting new technology in OEM or depot applications, recommendations for coating application and curing equipment for existing depot paint operations and in-service performance predictions for coating systems.

17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A003
2. TITLE OF DATA ITEM : Report, Record of Meeting Minutes
3. SUBTITLE: Minutes

4. AUTHORITY: DI-ADMN-81505
5. CONTRACT REFERENCE: C.4.6, C.3.18
6. REQUIRING OFFICE .: RDTA-EN/ME /MS 267
7. DD250 REQ: LT/WAWF
8. APP CODE: N/A
9. DIST. STATEMENT REQUIRED: A
10. FREQUENCY : AS REQUIRED
11. AS OF DATE: Upon contract award
12. DATE OF FIRST SUB: 60 DAC
13. DATE OF SUBS. SUB: See paragraph 16.
14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:
Scott Porter, Contracting Officer's Representative, E-Mail: Scott.W.Porter.civ@mail.mil
Troy Haarala, Contract Specialist, E-Mail: troy.r.haarala.civ@mail.mil
COGNIZANT ACO, DCMA, See Section G of the contract for name and email

15. TOTAL:
16. REMARKS: Meeting minutes due 15 days after each meeting is conducted.
17. PRICE GROUP:
18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO.: A004
2. TITLE OF DATA ITEM : Acquisition Streamlining Cost Benefit Report
3. SUBTITLE: Life Cycle cost impact of new technology

4. AUTHORITY: DI-MISC-80344
5. CONTRACT REFERENCE: C.4.5, C.3.16
6. REQUIRING OFFICE .: RDTA-EN/ME /MS 267
7. DD250 REQ: LT/WAWF
8. APP CODE: N/A

- 9. DIST. STATEMENT REQUIRED: A
- 10. FREQUENCY : ASREC
- 11. AS OF DATE: Upon contract award
- 12. DATE OF FIRST SUB: See Item 16
- 13. DATE OF SUBS. SUB: See Item 16
- 14. DISTRIBUTION ADDRESSEES: SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Scott Porter, Contracting Officer's Representative, E-Mail:

Scott.W.Porter.civ@mail.mil
Troy Haarala, Contract Specialist, E-Mail: troy.r.haarala.civ@mail.mil
COGNIZANT ACO, DCMA, See Section G of the contract for name and email

- 15. TOTAL:
- 16. REMARKS:

a. Base Award - First report 90 days after contract award; Final report due at end of contract. Include as an attachment to the Technical Report.

First report due 90 days after award of Modification P00002; Final report due at end of contract. Include as an attachment to the Technical Report.

b. Reports, in contractor format, to include information related to platform specific, life-cycle cost impact of inserting new technology in OEM or depot applications for FMTV and HMMWV family of vehicles.

- 17. PRICE GROUP:
- 18. ESTIMATED TOTAL PRICE:

-
- 1. DATA ITEM NO.: A005
 - 2. TITLE OF DATA ITEM : Commercial Item Description (CID)
 - 3. SUBTITLE
 - 4. AUTHORITY: DI-SDMP-81261
 - 5. CONTRACT REFERENCE: C.3.9.4, C.3.10.3, C.3.11.3
 - 6. REQUIRING OFFICE .: RDTA-EN/ME /MS 267
 - 7. DD250 REQ : LT/WAWF

- 8. APP CODE : N/A
- 9. DIST. STATEMENT REQUIRED: A
- 10. FREQUENCY: 1
- 11. AS OF DATE:
- 12. DATE OF FIRST SUB:
- 13. DATE OF SUBS. SUB:
- 14. DISTRIBUTION ADDRESSEES:

SUBMIT REPORTS ELECTRONICALLY TO THE E-MAIL ADDRESSES SHOWN IMMEDIATELY BELOW:

Scott Porter, Contracting Officer's Representative, E-Mail: Scott.W.Porter.civ@mail.mil

- 15. TOTAL:
- 16. REMARKS: Submit a CID as for all newly developed technologies as identified in the scope.
- 17. PRICE GROUP:
- 18. ESTIMATED TOTAL PRICE:

***** THE FOLLOWING INSTRUCTION APPLIES TO ALL REPORTS DELIVERABLE UNDER THE CONTRACT *****

Prepare the reports in Contractor format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft* Office XP or Microsoft* Office 2002 & lower Products: Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print or scan images of spreadsheets are not acceptable. Please see security note below for caution regarding use of macros.

(2) Files in Adobe PDF (Portable Document Format). When scanning documents, scanner should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language) Format. HTML documents must not contain active links to Internet websites or web pages for reference information. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idg@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten (10) calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

(5) Please note that we can no longer accept .zip files due to increasing security concerns.

NOTE. Macros: The virus scanning software used by our e-mail systems cannot always distinguish a macro from a virus. Therefore, sending a macro embedded in an e-mail message or an e-mail attachment may cause the e-mail report to be quarantined.

d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, another acceptable media is a 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Previously "zipped" files were accepted, but due to security concerns these zipped attachments cannot be received through our mail system. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 650 MEGABYTE CD ROM to be delivered via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. If required, exterior mailing envelopes containing disks must be addressed to the following address:

Scott Porter, RDTA-EN/ME, Mail Stop 267
U.S. Army TACOM Life Cycle Management Command (TACOM LCMC)
6501 East 11 Mile Road
Warren, MI 48397-5000

NOTE: Please select only one type of electronic media to transmit each report. For instance, do not submit a report via e-mail and CD-ROM.

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