

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Office of Secretary Of Defense **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				PE 0604016D8Z: <i>Department of Defense Corrosion Policy and Oversight</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	38.463	34.153	3.283	-	3.283	3.366	3.448	3.595	3.601	Continuing	Continuing
P015: <i>Corrosion Protection Projects</i>	38.463	34.153	3.283	-	3.283	3.366	3.448	3.595	3.601	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

(U) The purpose of this program is to develop a comprehensive capability to prevent and mitigate corrosion and its effects on Department of Defense (DoD) weapon systems and infrastructure. Corrosion severely impacts system and facility reliability, readiness and safety, and consumes a disproportionate amount of material and labor hours for repair and treatment of corrosion damaged systems and facilities. The cost of corrosion across the DoD has been estimated at over 23 billion each year. The impact and cost of corrosion are so pervasive that Congress enacted Public Law 107-314 Sec: 1067 [portions codified in 10 U.S.C. 2228]: Prevention and mitigation of corrosion of military infrastructure and equipment. This legislation requires that DoD develop a long-term corrosion strategy to include establishment of a coordinated R&D program with transition plans. The legislation also requires that DoD designate a responsible official or organization to oversee a corrosion prevention and mitigation program. The responsibilities of the Director, Corrosion Policy and Oversight and the Military Department Corrosion Prevention and Control Executives were further delineated in DODI 5000.67 "Prevention and Mitigation of Corrosion on Military Equipment and Infrastructure" of 01 February 2010.

(U) The Deputy Secretary of Defense designated the Principal Deputy Under Secretary of Defense (Acquisition, Technology, and Logistics) (PDUSD(AT&L)) as the DoD Corrosion Executive in May 2003. The DoD Corrosion Executive subsequently established a Corrosion Control and Oversight office to implement the program. Subsequently, in accordance with Section 371 of the 2008 National Defense Authorization Act, the Under Secretary of Defense (USD(AT&L)) designated a Director, Corrosion Policy and Oversight to perform the duties of the DoD Corrosion Executive with responsibilities as described in the 2008 NDAA legislation. A major responsibility of the Director, Corrosion Policy and Oversight is to select high payoff research and development projects that promise to prevent or mitigate corrosion and significantly reduce the total cost of corrosion along with the adverse impact of corrosion effects on weapon system and infrastructure operational capability. This office chartered a Corrosion Prevention and Control Integrated Product Team (CPCIPT) that has selected and funded Operation and Maintenance projects for each Fiscal Year (FY) commencing in FY 2005. However, the DoD CPCIPT has determined that the biggest payoff in corrosion prevention and mitigation will come from investing in up-front prevention technologies, materials, and processes to leverage downstream cost avoidance in corrosion maintenance and repair. Likewise, development of improved predictive and prognostic techniques can eliminate unseen failure and reduce unnecessary maintenance and repair costs. Thus, technology development, demonstration, and transition projects have been selected and funded since FY 2006. In FY 2009, the Military Departments assigned corrosion executives and began submitting reports to Congress on inserting corrosion planning into the acquisition process. The FY 2011 NDAA added a requirement for the DoD to report the amount of funds requested in the preceding year budget for each planned project or activity, as compared to the funding required for each project or activity. These funds provide a portion of the funds used to implement associated corrosion control projects and activities.

(U) The Corrosion Prevention Control Integrated Product Team membership consists of both the equipment and infrastructure corrosion control experts from the Services, the Joint Staff, the Coast Guard, and the National Aeronautics and Space Administration. The Services are given project submission instructions, evaluation procedures and selection criteria. The CPC project selection board, chaired by the Director, Corrosion Policy and Oversight, reviews the projects and makes recommendations to the USD(AT&L) for final approval.

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**APPROPRIATION/BUDGET ACTIVITY**

0400: *Research, Development, Test & Evaluation, Defense-Wide*  
 BA 4: *Advanced Component Development & Prototypes (ACD&P)*

**R-1 ITEM NOMENCLATURE**

PE 0604016D8Z: *Department of Defense Corrosion Policy and Oversight*

(U) The former DoD Corrosion Executive issued a policy letter that states: "Basic systems design, materials and processes selection, and intrinsic corrosion-prevention strategies establish the corrosion susceptibility of Defense material. The early stages of acquisition provide our best opportunity to make effective trade-offs among the many competing design criteria. . ." The Congress and former DoD Corrosion Executive made it clear that research and development into materials and methods to prevent or mitigate corrosion should receive high priority. Since Congress has clearly established this program as one of its highest priorities, and has reiterated its expectations regarding funding levels and methods, our budget request is designed to reflect both fiscal realities of one or more on many proposed projects over the next five to ten years.

These projects address critical corrosion issues in both Department of Defense infrastructure as well as warfighting systems. A number of low-risk, high-payoff technologies promise to vastly improve the service life and significantly reduce the maintenance costs of storage tanks and other mission support facilities essential to maintain support for the warfighter. Each of the services has identified important projects that vastly increase operational readiness and reduce operations and maintenance costs. All services are studying corrosion inhibitors that improve reliability and life of electrical and avionics equipment. Likewise, an array of highly effective, rapid cure coatings that are easy to apply and can forestall corrosion for many years on aircraft and ships are being developed. Other vital projects being considered include sealants, wash down systems, sensors and prognostic technologies that have joint service applications and potential to prevent and mitigate corrosion and its effects over a wide range of systems. The FY 2012 budget request will provide a critically needed resource to trigger even larger investment and cost avoidance.

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2011</u></b>	<b><u>FY 2012</u></b>	<b><u>FY 2013 Base</u></b>	<b><u>FY 2013 OCO</u></b>	<b><u>FY 2013 Total</u></b>
Previous President's Budget	4.802	3.221	3.792	-	3.792
Current President's Budget	38.463	34.153	3.283	-	3.283
Total Adjustments	33.661	30.932	-0.509	-	-0.509
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.691	-0.932			
• Other Program Adjustments	-0.002	-	-0.509	-	-0.509
• Economic Assumptions	-0.201	-	-	-	-
• FFRDC	-0.145	-0.236	-	-	-
• Congressional Add	34.700	32.100	-	-	-

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** P015: *Corrosion Protection Projects*

<b><u>FY 2011</u></b>	<b><u>FY 2012</u></b>

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2013 Office of Secretary Of Defense		<b>DATE:</b> February 2012	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604016D8Z: <i>Department of Defense Corrosion Policy and Oversight</i>	
<b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b>		<b>FY 2011</b>	<b>FY 2012</b>
Congressional Add: <i>Corrosion Control, Prevention and Prediction through Polymer R&amp;D</i>		34.700	32.100
Congressional Add Subtotals for Project: P015		34.700	32.100
Congressional Add Totals for all Projects		34.700	32.100

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0604016D8Z: Department of Defense Corrosion Policy and Oversight				P015: Corrosion Protection Projects			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
P015: Corrosion Protection Projects	38.463	34.153	3.283	-	3.283	3.366	3.448	3.595	3.601	Continuing	Continuing
Quantity of RDT&E Articles	0										

## A. Mission Description and Budget Item Justification

U) The purpose of this program is to develop a comprehensive capability to prevent and mitigate corrosion and its effects on Department of Defense (DoD) weapon systems and infrastructure. Corrosion severely impacts system and facility reliability, readiness and safety, and consumes a disproportionate amount of material and labor hours for repair and treatment of corrosion damaged systems and facilities. The cost of corrosion across the DoD has been estimated at over 23 billion each year. The impact and cost of corrosion are so pervasive that Congress enacted Public Law 107-314 Sec: 1067 [portions codified in 10 U.S.C. 2228]: Prevention and mitigation of corrosion of military infrastructure and equipment. This legislation requires that DoD develop a long-term corrosion strategy to include establishment of a coordinated R&D program with transition plans. The legislation also requires that DoD designate a responsible official or organization to oversee a corrosion prevention and mitigation program. The responsibilities of the Director, Corrosion Policy and Oversight and the Military Department Corrosion Prevention and Control Executives were further delineated in DODI 5000.67 "Prevention and Mitigation of Corrosion on Military Equipment and Infrastructure" of 01 February 2010.

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604016D8Z: <i>Department of Defense</i> <i>Corrosion Policy and Oversight</i>	<b>PROJECT</b> P015: <i>Corrosion Protection Projects</i>
<p>(U) The former DoD Corrosion Executive issued a policy letter that states: "Basic systems design, materials and processes selection, and intrinsic corrosion-prevention strategies establish the corrosion susceptibility of Defense material. The early stages of acquisition provide our best opportunity to make effective trade-offs among the many competing design criteria. . ." The Congress and former DoD Corrosion Executive made it clear that research and development into materials and methods to prevent or mitigate corrosion should receive high priority. Since Congress has clearly established this program as one of its highest priorities, and has reiterated its expectations regarding funding levels and methods, our budget request is designed to reflect both fiscal realities of one or more on many proposed projects over the next five to ten years.</p> <p>These projects address critical corrosion issues in both Department of Defense infrastructure as well as warfighting systems. A number of low-risk, high-payoff technologies promise to vastly improve the service life and significantly reduce the maintenance costs of storage tanks and other mission support facilities essential to maintain support for the warfighter. Each of the services has identified important projects that vastly increase operational readiness and reduce operations and maintenance costs. All services are studying corrosion inhibitors that improve reliability and life of electrical and avionics equipment. Likewise, an array of highly effective, rapid cure coatings that are easy to apply and can forestall corrosion for many years on aircraft and ships are being developed. Other vital projects being considered include sealants, wash down systems, sensors and prognostic technologies that have joint service applications and potential to prevent and mitigate corrosion and its effects over a wide range of systems. The FY 2012 budget request will provide a critically needed resource to trigger even larger investment and cost avoidance.</p>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		
<b>Title:</b> Corrosion Prevention and Control Projects and Activities		
<b>FY 2011 Accomplishments:</b> Rapid-Cure Single-Coat Potable Water Tank Coatings Optical Corrosion Sensors Post-Stressing Concrete Universal Coating Repair Methods Geopolymer Soil Stabilization and Dehumidification		
<b>FY 2012 Plans:</b> Vapor Phase Coatings High Strength Fastener Certification C-130 Non-Chrome Field Test Non-Hex Chrome Wash Primer Stress-Corrosion Cracking/Corrosion Fatigue on High Strength Steels		
<b>FY 2013 Plans:</b> Coatings and Corrosion Prevention Compounds Diagnostics, Prognostics, Monitoring and NDI Technologies		
	<b>FY 2011</b>	<b>FY 2012</b>
	3.763	2.053
		<b>FY 2013</b>
		3.283

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Prediction, Modeling and Supporting Technologies				
Maintenance and Cathodic Protection Technologies and Practices				
Materials Selection Processes				
<b>Accomplishments/Planned Programs Subtotals</b>		3.763	2.053	3.283
		<b>FY 2011</b>	<b>FY 2012</b>	
<b>Congressional Add:</b> Corrosion Control, Prevention and Prediction through Polymer R&D		34.700	32.100	
<b>FY 2011 Accomplishments:</b> 1. Funded additional corrosion prevention and control (CPC) technology insertion projects: a) Direct to metal Non-Skid coating b) Engineered touch up coatings c) Tri-Service application of portable CPC Spray gun d) Non-Destructive inspection through low-observable coatings e) Corrosion resistant coatings for MRAPs 2. Continuation of the University Corrosion Collaboration (UCC) research and development efforts. 3. The formation of Technology Corrosion Collaboration that now include not only the UCC members but the following new members: the Service Academies, Service CPC Laboratories, AF Institute of Technology and the Naval Post Graduate School. 4. Expansion of the Alternatives for Life Cycle Costs analysis 5. Development of several coatings and cathodic protection training courses and college equivalent engineering corrosion classes.				
<b>FY 2012 Plans:</b> 1. Fund additional corrosion prevention and control (CPC) technology insertion projects: a) Direct to metal Non-Skid coating b) Engineered touch up coatings c) Tri-Service application of portable CPC Spray gun d) Non-Destructive inspection through low-observable coatings e) Corrosion resistant coatings for MRAPs 2. Continuation of the University Corrosion Collaboration (UCC) research and development efforts. 3. The formation of Technology Corrosion Collaboration that now include not only the UCC members but the following new members: the Service Academies, Service CPC Laboratories, AF Institute of Technology and the Naval Post Graduate School. 4. Expansion of the Alternatives for Life Cycle Costs analysis				

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	<b>FY 2011</b>	<b>FY 2012</b>
5. Development of several coatings and cathodic protection training courses and college equivalent engineering corrosion classes.		
<b>Congressional Adds Subtotals</b>	34.700	32.100

  

**C. Other Program Funding Summary (\$ in Millions)**  
 N/A

**D. Acquisition Strategy**

There is an annual Corrosion Prevention and Control Integrated Project Team (CPCIPT) call for proposed project plans in April. Projects are submitted by the Services annually in June. The project plan format is contained in the DoD Corrosion Prevention and Mitigation Strategic Plan. Each project plan contains:

1. Problem statement: Description of the problem or situation, including background, history, issues, operational problems and support costs.
2. Impact statement: Details regarding why project is important including description of the operational and/or logistic impact if no action is taken.
3. Technical description: Definition of the corrosion prevention and control objective and description of the system affected by this project; applicable technologies and associated development; expected operations and logistics performance improvement characteristics; brief description of the user community and how it will apply to their mission; and current acquisition status.
4. Risk analysis: Description of the risk in managing/developing/prototyping/ testing/qualifying/manufacturing/completing the technical effort including assumptions that could affect project development or implementation.
5. Proposed phases: If project is complex and will be performed in phases, description of each phase objective.
6. Expected deliverables and results or outcomes: Description of products to be delivered such as type/number of hardware, technical orders/drawings, installation, training, etc.; and description of expected operations and/or logistics performance improvements.
7. Program management: Description of the overall approach and tasks to be taken to accomplish the project, including organization, coordination and acquisition approach.
8. Cost/benefit analysis: Definition of all resources necessary to accomplish project, description of resulting benefits, computation of Return-On-Investment (ROI), documentation of mission criticality, and description of joint applicability.
9. Schedule: Milestone chart showing all significant events through project completion.
10. Implementation plan: Explanation of how the project will be implemented when completed including a description of the transition approach, and plans to evaluate ROI during the first two years of implementation.

The Corrosion Prevention and Control Integrated Project Team (CPCIPT) receives project plans and engages an evaluation panel to review proposed projects and make recommendations regarding project selection. Projects are also evaluated using Data Envelopment Analysis (DEA) to rank projects by relative efficiency. DEA factors include project performance period, ratio of OSD funding to Service funding, return-on-investment (ROI), degree to which the proposed technology addresses high-cost corrosion problems, potential benefits, and joint service applicability. DEA efficiency scores are provided to the evaluation team to assist in their prioritization of projects for funding. In addition, evaluators consider the following in recommending final priorities:

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<p>1. Return on investment credibility: Degree to which there is evidence that the project will achieve an acceptable return on investment</p> <p>2. Technology maturity: Degree to which proposed technology has been developed or demonstrated and will satisfy project objectives</p> <p>3. Schedule confidence: Degree to which the project is likely to be completed on time</p> <p>4. Budget confidence: Degree to which the project is likely to be completed within the proposed budget</p> <p>5. Management support: Degree to which management actively supports this project and has committed program resources to both manage and support this project</p> <p>The project priority ranking is finalized and sent to the CPCIPT lead for a final decision.. Upon acceptance and approval of the projects by the CPCIPT, the projects are briefed to the Corrosion Forum. Funding is distributed between the Services based on funding priorities associated with the evaluation process results.</p> <p>Upon selection by CPCIPT of the highest priority projects and final funding approval, Office of the Secretary of Defense (OSD) transfers individual project funding to the appropriate funding sites that are provided by the Services. After receiving the project funding, the Services are responsible for the funding and management of the projects. OSD retains oversight and direction of the Corrosion Prevention and Control initiative through the CPCIPT. Project oversight includes the review of quarterly status reports which address progress summary, performance goals and metrics and upcoming key events, as well as reports to periodic Corrosion Forums.</p> <p>The quarterly project report (PR) format has been defined and requires the following input:</p> <ol style="list-style-type: none"> <li>1. Statement of progress</li> <li>2. Outstanding issues</li> <li>3. Performance goals and metrics</li> <li>4. Upcoming events</li> <li>5. Schedule status</li> <li>6. Current return on investment (ROI) status</li> </ol> <p>These project reports (PRs) are submitted to the CPCIPT. The CPCIPT analyzes project status, progress and project statistics and informs the Service points of contact (POCs) of any project problems. Projects are also required to report verbally at Corrosion Forums, as appropriate.</p> <p>Corrosion Prevention and Control (CPC) Program direction, control and oversight include the following activities to be performed by staff and support contractors:</p> <ol style="list-style-type: none"> <li>1. Plan and schedule Corrosion Forums and oversee Corrosion Forum activities and working Integrated Product Team (IPT) meetings.</li> <li>2. Oversee project performance including review of quarterly status reports which address progress summary, performance goals and metrics and upcoming key events, as well as reports to periodic Corrosion Forums.</li> <li>3. Perform Department of Defense (DoD) cost of corrosion study.</li> <li>4. Develop improved, standard DoD-wide specifications, standards and qualification processes.</li> <li>5. Develop corrosion training courses.</li> <li>6. Prepare and publish Corrosion Prevention and Control Planning Guidebook spirals.</li> <li>7. Prepare and publish annual Reports to Congress.</li> <li>8. Update short-term and long-term metrics.</li> <li>9. Develop corrosion control program management guide for selecting materials.</li> <li>10. Develop, implement, and update the DoD Corrosion Prevention and Mitigation Strategic Plan.</li> </ol>		



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<p>11. Develop and maintain Roadmaps of IPT activities and accomplishments.</p> <p>12. Assist in the annual project plan implementation and evaluation process, including the assessment of return on investment associated with proposed projects.</p> <p>13. Respond to Congressional, Government Accountability Office and DoD inquiries regarding the CPC Program.</p> <p>14. Perform CPC Program communication and outreach to services, agencies and other organizations.</p> <p>15. Develop and implement corrosion prevention and control policies applicable for acquisition and sustainment of both weapons systems and infrastructure.</p> <p>16. Perform reviews of major programs to ensure they are in compliance with corrosion prevention and control policy.</p> <p>17. Provide oversight of the corrosion programs of the Military Departments and Chair the DoD Corrosion Board of Directors (which includes the Corrosion Control and Prevention Executives from each of the Military Departments).</p> <p>18. Interact with industry, technical societies, trade associations, government personnel, and foreign allies to identify promising corrosion control technologies and assist in technology transition and insertion</p> <p><b><u>E. Performance Metrics</u></b></p> <p>Not applicable.</p>		