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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207446F: Bomber Tactical Data Link							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	21.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
675041: Bomber Tactical Data Link	21.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>Tactical Data Links (TDL), as a subset of the broader Airborne Network, are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs provide a jam-resistant, secure digital data transfer network capability with new and standardized waveforms and data formats allowing Line of Sight (LOS) and Beyond Line of Sight (BLOS) intra- and inter-flight communications. TDLs are used by all Service theater Command and Control (C2) elements, weapons platforms, and sensors. TDLs include, but are not limited to: Link 16, Link 11, Situational Awareness Data Link (SADL), Variable Message Format (VMF), Integrated Broadcast Service (IBS), Multifunction Advanced Data Link (MADL), and Tactical Targeting Network Technology (TTNT).</p>											
<p>This effort provides critical capability and enhancements to the Airborne Network by creating common development, integration, and interoperability among all Air Force bomber platforms to include, but not limited to B-1B, B-2, and B-52 aircraft. Keeps all bomber platforms and data linked weapons current, interoperable in the network, and compatible with the USAF Global Strike (GS) operations concept beyond 2020. Also expands LOS and BLOS data link capabilities. TDLs increase mission effectiveness, provide situational awareness, provide positive identification of aircraft in the network, correlate on- and off-board sensor data sharing, target, and threat information, and provide the data link to accomplish time critical targeting and other mission update functions. The BLOS data link capability works with Link 16 to extend the range of local Link 16 networks to other areas/theaters. TDL efforts include incorporating changes and additions to the TDL message standard (MIL-STD-6016D) and applicable Interface Change Proposals (ICPs); assisting with AF and Joint interoperability certification testing; future development, integration, and verification of Operational Flight Program (OFP) upgrades due to TDL integration; support of data gathering processes; studying and incorporating data link technologies to ensure effectiveness and efficiency of the Global Strike CONOPS and Global Persistent Attack CONOPS; and incorporating Interoperable Systems Management and Requirements Transformation (iSMART), a process which enables network centric interoperability assessments to be made more quickly and effectively.</p>											
<p>Bomber platforms have both current work and future plans for Tactical Data Links. The B-1 Fully Integrated Data Link (FIDL) program is ongoing. FIDL is being developed for B-1. MADL will be developed for and integrated on B-2 to enable Global Strike (GS), Global Persistent Attack (GPA) and Suppression of Enemy Air Defenses (SEAD) missions.</p>											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0207446F: Bomber Tactical Data Link			
BA 7: Operational Systems Development					
Activities also include studies and analysis to support both current program planning and execution and future program planning.					
Bomber Tactical Data Link program is in Budget Activity 7, Operational System Development, since it supports integration of tactical data links into operational systems.					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	11.603	0.000	0.000	0.000	0.000
Current President's Budget	21.603	0.000	0.000	0.000	0.000
Total Adjustments	10.000	0.000	0.000	0.000	0.000
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	10.000	0.000	0.000	0.000	0.000
Change Summary Explanation					
In FY09, funding was added to complete B-1 Fully Integrated Data Links (FIDL) System Development and Demonstration (SDD).					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
675041: Bomber Tactical Data Link	21.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Tactical Data Links (TDL), as a subset of the broader Airborne Network, are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs provide a jam-resistant, secure digital data transfer network capability with new and standardized waveforms and data formats allowing Line of Sight (LOS) and Beyond Line of Sight (BLOS) intra- and inter-flight communications. TDLs are used by all Service theater Command and Control (C2) elements, weapons platforms, and sensors. TDLs include, but are not limited to: Link 16, Link 11, Situational Awareness Data Link (SADL), Variable Message Format (VMF), Integrated Broadcast Service (IBS), Multifunction Advanced Data Link (MADL), and Tactical Targeting Network Technology (TTNT).

This effort provides critical capability and enhancements to the Airborne Network by creating common development, integration, and interoperability among all Air Force bomber platforms to include, but not limited to B-1B, B-2, and B-52 aircraft. Keeps all bomber platforms and data linked weapons current, interoperable in the network, and compatible with the USAF Global Strike (GS) operations concept beyond 2020. Also expands LOS and BLOS data link capabilities. TDLs increase mission effectiveness, provide situational awareness, provide positive identification of aircraft in the network, correlate on- and off-board sensor data sharing, target, and threat information, and provide the data link to accomplish time critical targeting and other mission update functions. The BLOS data link capability works with Link 16 to extend the range of local Link 16 networks to other areas/theaters. TDL efforts include incorporating changes and additions to the TDL message standard (MIL-STD-6016D) and applicable Interface Change Proposals (ICPs); assisting with AF and Joint interoperability certification testing; future development, integration, and verification of Operational Flight Program (OFP) upgrades due to TDL integration; support of data gathering processes; studying and incorporating data link technologies to ensure effectiveness and efficiency of the Global Strike CONOPS and Global Persistent Attack CONOPS; and incorporating Interoperable Systems Management and Requirements Transformation (iSMART), a process which enables network centric interoperability assessments to be made more quickly and effectively.

Bomber platforms have both current work and future plans for Tactical Data Links. The B-1 Fully Integrated Data Link (FIDL) program is ongoing. FIDL is being developed for B-1. MADL will be developed for and integrated on B-2 to enable Global Strike (GS), Global Persistent Attack (GPA) and Suppression of Enemy Air Defenses (SEAD) missions.

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Activities also include studies and analysis to support both current program planning and execution and future program planning.						
Bomber Tactical Data Link program is in Budget Activity 7, Operational System Development, since it supports integration of tactical data links into operational systems.						
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: B-1 Fully Integrated Data Link (FIDL) System Design and Development		17.969	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: Continued the development of Link 16 capability for the B-1 with emphasis on the FIDL Phase 1 software and hardware. Integrated Link 16 hardware for Phase 1 flight test. Developed and tested software components for integration into Phase 2 flight testing. Completed qualification and testing of Phase 1 including flight test, integrated Phase 2 software and test Phase 2 Link 16 and Joint Range Extension Applications Protocol A (JREAP A) functionality.						
FY 2010 Plans: In FY 2010: N/A						
FY 2011 Base Plans: In FY 2011: N/A						
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Common Bomber Tactical Data Link (TDL) analysis, systems engineering, testing, and technical support		3.634	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: Performed Common Bomber Tactical Data Link (TDL) analysis, systems engineering, testing, and technical support						

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2010 Plans: In FY 2010: N/A											
FY 2011 Base Plans: In FY 2011: N/A											
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.											
Accomplishments/Planned Programs Subtotals						21.603	0.000	0.000	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0207434F-A: Link 16 Sup & Sus, (RDT&E)	278.961	65.619	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0207445F-A: Fighter TDL, (RDT&E)	55.069	66.872	85.492	0.000	85.492	169.748	118.655	0.000	0.000	0.000	0.000
• PE 0207448F-A: C2ISR TDL, (RDT&E)	1.671	1.659	1.584	0.000	1.584	1.608	1.633	1.658	1.682	0.000	0.000
• PE 0401839F-A: Airlift TDL, (RDT&E)	7.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0604281F-A: TDN Enterprise, (RDT&E)	0.000	87.444	102.941	0.000	102.941	67.790	40.507	43.037	34.930	0.000	0.000
• PE 0207434F-B: Link 16 Sup & Sus, (APAF)	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0207445F-B: Fighter TDL, (APAF)	5.788	9.585	0.929	0.000	0.929	7.695	6.925	7.043	12.785	0.000	0.000

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0207446F: Bomber TDL, (APAF)	0.000	0.000	0.000	0.000	0.000	0.339	0.337	0.368	0.972	0.000	0.000
• PE 0207448F-B: C2ISR TDL, (APAF)	0.000	0.000	0.000	0.000	0.000	0.959	0.912	0.927	1.729	0.000	0.000
• PE 0207434F-C: Link 16 Sup & Sus, (O&M)	131.597	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0207445F-C: Fighter TDL, (O&M)	0.208	0.198	0.219	0.000	0.219	0.221	0.257	0.258	0.268	0.000	0.000
• PE 0401839F-B : Airlift TDL, (O&M)	1.574	8.175	7.857	0.000	7.857	3.629	1.634	1.666	2.944	0.000	0.000
• PE 0604281F-B: TDN Enterprise, (O&M)	0.000	33.727	31.382	0.000	31.382	19.165	17.303	20.026	21.534	0.000	0.000
• PE 0207434F-D: Link 16 Sup & Sus, (OPAF)	16.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0604281F-C: TDN Enterprise, (OPAF)	0.000	32.343	21.742	0.000	21.742	9.270	0.337	0.311	0.240	0.000	0.000
D. Acquisition Strategy											
The 653rd Electronic Systems Group (ELSG) provides for common development, integration and interoperability across the entire Airborne Network and ensures that data links are procured and maintained as a joint, end-to-end, command and control system. Platform acquisition strategies vary by program, but the majority of development and integration is normally accomplished by the weapon system prime contractor.											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Product Development (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> <tr> <td>B-1 FIDL System Development and Demonstration (SDD) *</td> <td>SS/CPIF</td> <td>Boeing Long Beach, CA</td> <td align="right">50.556</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">194.234</td> </tr> <tr> <td>Bomber TDL analysis, systems engineering & technical support/MITRE</td> <td>Various/ Various</td> <td>Various Various</td> <td align="right">1.933</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td>Continuing</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td> <td align="right">52.489</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td></td> <td></td> </tr> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	B-1 FIDL System Development and Demonstration (SDD) *	SS/CPIF	Boeing Long Beach, CA	50.556	0.000		0.000		0.000		0.000	Continuing	Continuing	194.234	Bomber TDL analysis, systems engineering & technical support/MITRE	Various/ Various	Various Various	1.933	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing	Subtotal			52.489	0.000		0.000		0.000		0.000			
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Subtotal			3.938	0.000		0.000		0.000		0.000	0.000	3.938	0.000																																																															
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Total Prior Years Cost</th> <th>FY 2010</th> <th>FY 2011 Base</th> <th>FY 2011 OCO</th> <th>FY 2011 Total</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> </thead> <tbody> <tr> <td>Project Cost Totals</td> <td align="right">58.478</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td></td> </tr> </tbody> </table>															Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Project Cost Totals	58.478	0.000		0.000		0.000																																															
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Remarks Total Prior Years Cost may include only FY 2009 data.																																																																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0207446F: Bomber Tactical Data Link

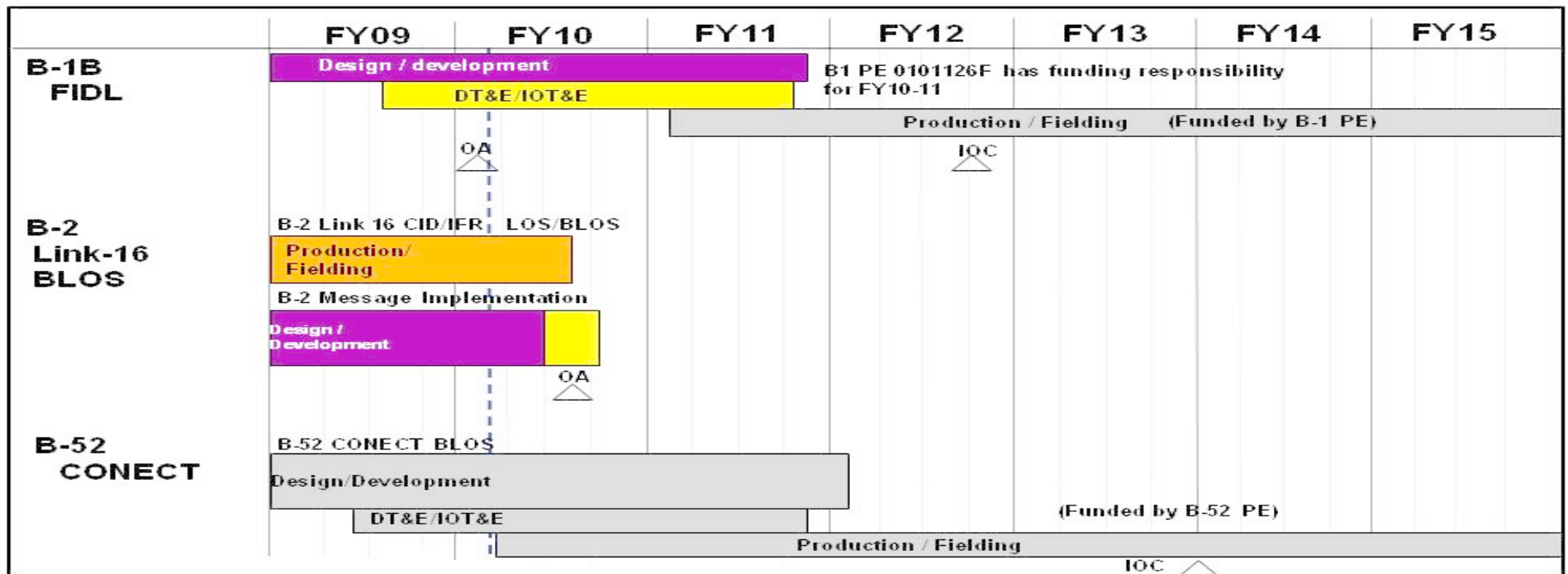
PROJECT

675041: Bomber Tactical Data Link



Bomber Tactical Data Link Schedule

(as of 08 Dec 09)



Concept
Design / Development
Production / Fielding
Integration / Test
Sustainment
Externally Funded

Integrity - Service - Excellence

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207446F: <i>Bomber Tactical Data Link</i>	PROJECT 675041: <i>Bomber Tactical Data Link</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
B-1 Fully Integrated Data Link System Design & Development (SDD)*	1	2009	4	2011
B-1 Fully Integrated Data Link Flight Test (DT&E/IOTE)	3	2009	4	2011
B-1 Fully Integrated Data Link Production & Fielding	1	2011	4	2011
B-2 Message Implementation	1	2009	3	2010
B-2 Message Implementation Operational Assessment	3	2010	3	2010
B-52 Integrated Data Link SDD**	1	2009	4	2011
B-52 Integrated Data Link (DT&E/IOT&E)**	2	2009	4	2011

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