EXHIBIT R-2,	RDT&E Budget Item Ju	stification				DATE:	February 2006					
ROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE 6604771D8Z Common Joint Tactical Information												
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011					
Total PE Cost	17.075	10.899	8.177	17.079	21.057	21.389	21.864					
P771 Link-16 Tactical Data Link (TDL) Transformation Subtotal Cost	13.743	10.899	8.177	17.079	21.057	21.389	21.864					
P 773 Multifunctional Information Distribution System-Low Volume T	erminal (MIDS-LVT)					1	1					
Subtotal Cost	3.332											

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The P771 program was developed to transform Joint Tactical Data Links (TDLs) (primarily the J Series of Link 16, Link 22, and the Variable Message Format) to comply with the Department's Net-Centric Operations Warfare (NCOW) vision. The program encapsulates the Department's needs for joint and combined network-enabled capabilities for all primary tactical and common data link (CDL) communications. The implementation of these network capabilities into the TDL and CDL environments will enhance the decision cycle between sensor-to-shooter; providing an information-superior, shared environment that will enhance combat power by increasing speed of command, higher tempo of operations, greater lethality, increased survivability, and self synchronization. To ensure the timely implementation, these network-enabling capabilities are being incorporated into the Joint Tactical Data Enterprise Services (TDES) Migration Plan (JTMP). The documentation of these network-enabling capabilities in the JTMP has been identified by the Joint Requirements Oversight Council (JROC), Allied/Coalition partners and the NATO C3 Board as critical to transformation of the data links.

The funds provided by this budget request will be used to update the JTMP to reflect the Services' migration plans towards the NCOW objectives. This plan in turn will be used by the Services and our Allied/Coalition partners in developing future acquisitions and fielding plans. In addition, funding will be used to expand the JTMP to incorporate the CDI. family of tactical Intelligence, Surveillance, and Reconnaissance (ISR) communications systems, including the systems in used with Unmanned Aerial Vehicles (UAVs) and the Integrated Broadcast Service (IBS). Starting this funding period, the Allied TDES migration will be added to the JTMP to ensure combined network interoperability in future conflicts and training exercises. This international effort will begin by adding the UK and Australia; both of which are currently operating the same TDL systems as the US and are actively participating in the TDES migration. A final area to be added will focus on the development of network-enabled weapons.

The program will continue to fund the development of spectrum management and oversight for the TDES systems, and to fund for the coordination of these development efforts with the Services and other US and International spectrum management agencies, including the Federal Aviation Agency (FAA) and National Telecommunications and Information Administration (NTIA), to obtain Link 16 spectrum certification. In addition, funding will continue to be used to support the Defense Information System's Agency's (DISA's) and Services' interoperable improvement efforts and processes in the development of common NCOW standards and protocols. This effort includes initiating the Joint Interoperability Enhancement Process (IEP) that allows operators, engineers, and program managers to verify capabilities and identify issues in a design with Joint /Allied units prior to system fielding, or with fielded systems to identify required systems changes for systems upgrade planning. DISA will lead the effort to transform the current standards and interoperability management tools to a common set of Joint network-enabled standards for the implementation of future TDES capabilities. These joint standards, protocols, and processes will be used for implementation and testing to ensure the TDES capabilities are synchronized with the development and integration timelines of other planned network-enabled Global Information Grid (GIG) initiatives.

A new initiative under this funding, will include the transition of the Net-Centric Operations Enterprise (NCOE) roadmap to include performing a detailed metrics evaluation and comparative analysis on the net-centricity of each of the DoD communications programs. This NCOE work will follow the guidelines of the OSD Net-Centric Checklist and aid programs transition into the NCOW environment of the GIG. The associated metrics will be updated as standards and protocols are approved in the Joint Technical Architecture or the NCOW and be used to derive the best alternative for spiral delivery of net-centricity into the GIG, including the TDES segment. During this process, policy, program oversight, and architectures for the wireless and mobility aspects of networking will also be updated or developed to ensure the best enterprise-wide solution(s). This will include funding the development of a joint-interoperable, net-centric, mobile ad-hoc networking (MANET) wireless architecture for the Joint Operations Area (JOA) in 2020 and a detailed GIG program synchronization roadmap.

The P773 program supported the RDT&E of MIDS-LVT. The last year of funding, FY 2005, supported the close out of the MIDS-LVT development as DoD started to plan the migration to the Joint Tactical Radio System (JTRS) Wideband Networking Waveform (WNW) which will field an interconnected end-to-end set of networking capabilities throughout the JOA in support of the NCOW objectives. Both the P771 and P773 were and are funded under BA-5, System Development and Demonstration, because the programs encompass engineering, manufacturing development, and demonstration of new end-items prior to production approval decision.

	T&E Budget Item J	ustification			DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NON		
RDT&E Defense-Wide/BA-5				0604771D8Z C	Common Joint Tactical	Information
B. Program Change Summary:						
	FY 2005	FY 2006	FY 2007			
Previous President's Budget	18.515	11.075	8.050			
Current BES/President's Budget	17.075	10.899	8.177			
Total Adjustments	~1.440	-0.176	0.127			
Congressinal program reductions						
Congressional rescissions, Inflation Adjustments	-1.440	-0.176	0.127			
Congressional increases						
Reprogrammings						
FY 2007: Non-pay Purchase Inflation .127 million.						
FY 2007: Non-pay Purchase Inflation .127 million. C. Other Program Funding Summary: N/A						
	g cost-plus contracts v	vill be utilized				
C. Other Program Funding Summary: N/A D. Acquisition Strategy: In Executing JTDL tasking, existin E. Performance Metrics: Program metrics will be developed	in support of reques	s for program	resources.			
C. Other Program Funding Summary: N/A D. Acquisition Strategy: In Executing JTDL tasking, existin	in support of reques	s for program	resources.			
C. Other Program Funding Summary: N/A D. Acquisition Strategy: In Executing JTDL tasking, existing E. Performance Metrics: Program metrics will be developed Checklist and aid programs in the move into the Net-Centric e	in support of reques	s for program	resources.			
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EXHIBIT R-2a, I	DATE: FO	bruary 2006										
APPROPRIATION/BUDGET ACTIVITY	ROPRIATION/BUDGET ACTIVITY											
	P771 Link-16	k-16 Tactical Data Link (TDL)										
RDT&E Defense-Wide/BA-5		·		y	Transformation							
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011					
P771 Link-16 Tactical Data Link (TDL) Transformation Subtotal Cost	13.743	10.899	8.177	17.079	21.057	21.389	21.864					
RDT&E Articles Qty					<u> </u>							

A. Mission Description and Budget Item Justification:

The P771 program was developed to transform Joint Tactical Data Links (TDLs) (primarily the J Series of Link 16, Link 22, and the Variable Message Format) to comply with the Department's Net-Centric Operations Warfare (NCOW) vision. The program encapsulates the Department's needs for joint and combined network-enabled capabilities for all primary tactical and common data link (CDL) communications. The implementation of these network capabilities into the TDL and CDL environments will enhance the decision cycle between sensor-to-shooter; providing an information-superior, shared environment that will enhance combat power by increasing speed of command, higher tempo of operations, greater lethality, increased survivability, and self synchronization. To ensure the timely implementation, these network-enabling capabilities are being incorporated into the Joint Tactical Data Enterprise Services (TDES) Migration Plan (JTMP). The documentation of these network-enabling capabilities in the JTMP has been identified by the Joint Requirements Oversight Council (JROC), Allied/Coalition partners and the NATO C3 board as critical to transformation of the data links.

The funds provided by this budget request will be used to update the JTMP to reflect the Service's migration plans towards the NCOW objectives. This plan in turn will be used by the Services and our Allied/Coalition partners in developing future acquisitions and fielding plans. In addition, funding will be used to expand the JTMP to incorporate the CDL family of tactical Intelligence, Surveillance, and Reconnaissance (ISR) communications systems, including the systems used with Unmanned Acrial Vehicles (UAVs) and the Integrated Broadcast Service (IBS). Starting this funding period, the Allied TDES migration will be added to the JTMP to ensure combined network interoperability in future conflicts and training exercises. This international effort will begin by adding the UK and Australia; both of which are currently operating the same TDL systems as the US and are actively participating in the TDES migration. A final area to be added will focus on the development of network-enabled weapons.

The program will continue to fund the development of spectrum management and oversight for the TDES systems, and to fund for the coordination of these development efforts with the Services and other US and International spectrum management agencies, including the Federal Aviation Agency (FAA) and National Telecommunications and Information Administration (NTIA), to obtain Link 16 spectrum certification. In addition, funding will continue to be used to support the Defense Information System Agency's (DISA's) and Services' interoperable improvement efforts and processes in the development of common NCOW standards and protocols. This effort includes initiating the Joint Interoperability Enhancement Process (IEP) that allows operators, engineers, and program managers to verify capabilities and identify issues in a design with Joint /Allied units prior to system fielding, or with fielded systems to identify required systems changes for systems upgrade planning. DISA will lead the effort to transform the current standards and interoperability management tools to a common set of Joint network-enabled standards for the implementation of future TDES capabilities. These joint standards, protocols, and processes will be used for implementation and testing to ensure the TDES capabilities are synchronized with the development and integration timelines of other planned network-enabled Global Information Grid (GIG) initiatives.

A new initiative under this funding will include the transition of the Net-Centric Operations Enterprise (NCOE) roadmap to include performing a detailed metrics evaluation and comparative analysis on the net-centricity of each of the DoD communications programs. This NCOE work will follow the guidelines of the OSD Net-Centric Checklist and aid programs transition into the NCOW environment of the GIG. The associated metrics will be updated as standards and protocols are approved in the Joint Technical Architecture or the NCOW and be used to derive the best alternative for spiral delivery of net-centricity into the GIG, including the TDES segment. During this process, policy, program oversight, and architectures for the wireless and mobility aspects of networking will also be updated or developed to ensure the best enterprise-wide solution(s). This will include funding the development of a joint-interoperable, net-centric, mobile ad-hoc networking (MANET) wireless architecture for the Joint Operations Area (JOA) in 2020 and a detailed GIG program synchronization roadmap.

EXH	IBIT R-2a, RDT&E Project Justification	DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E Defense-Wide/BA-5	PROJECT NUMBER AND NAME P771 Link-16 Tactical Data Link (sformation

B. Accomplishments/Planned Program

FY 2005 ACCOMPLISHMENTS (\$13.743 million):

- Developed initial draft Joint TDES Migration Plan (JTMP) to NCOW objectives
- Led Joint team with OSD, JCS, DISA, Services, and Agencies for TDES migration
- Initiated the revisision of June 2000 Joint Tactical Data Link Management Plan (JTDLMP) to TDES transformation to NCOW objectives
- Worked on Joint, Allied, and Coalition Tactical Interoperability and Net-Centric Transformation Initiatives
- Provided Joint oversight for Joint TDL interoperability and transformation initiatives (e.g., Joint Electro Magnetic Compatibility Features DoD Performance Specification, Service TDES migrations)
- Supported the GIG End-to-End Systems Engineering teams with TDL expertise
- Developed transformational solutions for dissemination of tactical data within the GIG Enterprise
- Initiated development of approved standards, protocols, and processes for implementation and testing across programs from end to end including end-to-end testing.

FY 2006 PLANNED (\$10.899 million):

- Publish JTMP documenting Joint TDES migration to NCOW objectives
- Lead Joint team with OSD, JCS, DISA, Services, and Agencies for TDES migration
- Revise and update 2000 Joint Tactical Data Link Management Plan (JTDLMP) into the Joint TDES Migration Plan (JTMP) in the transformation toward NCOW for publication in 2006 and begin preparations for 2008 update to JTMP
- Lead required TDES teams to address transformation of the tactical gateways and the Joint Interoperability of Tactical Command and Control Systems (JINTACCS)
- Act as the Joint subject matter experts for Joint, Allied, and Coalition Tactical Near-Term Interoperability and Net-Centric Transformation Initiatives
- Provide technical oversight, planning, and coordination of Joint TDL interoperability and transformation initiatives (e.g., Joint Electro Magnetic Compatibility Features DoD Performance Specification, Service TDES migrations)
- Act as Joint TDL subject matter experts and participate with GlG End-to-End Systems Engineering teams
- Complete tactical network loading and topology study to support migration to NCOW operations
- Identify transformational solutions for dissemination of tactical data within the GIG Enterprise
- Provide insight into operationally driven, technical functionalities needed to meet tactical data exchange requirements within a critical and/or warfighting environment (e.g., safety of life, tactical targeting)
- Conduct analytic evaluations to define and plan implementation of key technologies to include tactical information integration and configuration management
- Demonstrate TDES being accessible to other webservers/systems via extensible markup language (XML) translation for Advanced Waveforms initiatives
- Update program metrics that follow the OSD Net-Centric Checklist
- · Continue development of approved standards, protocols, and processes for implementation and testing across programs from end-to-end
- Complete Joint warfighter utilization of networked Internet Protocol (IP) data in tactical cockpits
- Initiate the integration of the Common Data Link (CDL) family of waveforms into the JTMP roadmap
- Initiate the integration of the Integrated Broadcast Service (IBS) into the ITMP roadman
- Plan and composite net-centric capability assessment
- Establish policy, provide oversight, and develop net-centric architectures which will address the wireless and mobility aspects of IP

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EX	HIBIT R-2a, RDT&E Project Justification	DATE	February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E Defense-Wide/BA-5	PROJECT NUMBER AND NA P771 Link-16 Tactical Data I		formation	

B. Accomplishments/Planned Program

FY 2007 PLANS (\$8.177 million):

- Update the Joint TDES Migration Plan (JTMP) documenting the TDES migrationtoward the Department's NCOW objectives
- Lead Joint team with OSD, JCS, DISA, Services, and Agencies for TDES migration
- Revise and update 2006 TDES transformation to NCOW in preparation for 2007 edition
- Lead required TDES teams to address transformation of the tactical gateways and the Joint Interoperability of Tactical Command and Control Systems (JINTACCS)
- Act as the Joint subject matter experts for Joint, Allied, and Coalition Tactical Near-Term Interoperability and Net-Centric Transformation Initiatives
- Provide technical oversight, planning, and coordination of Joint TDL interoperability and transformation initiatives (e.g., Joint Electro Magnetic Compatibility Features DoD Performance Specification, Service TDES migrations)
- Act as Joint TDL subject matter experts and participate with GIG End-to-End Systems Engineering teams
- Complete tactical network loading and topology study to support migration to NCOW operations
- Identify transformational solutions for dissemination of tactical data within the GIG Enterprise
- Provide insight into operationally driven, technical functionalities needed to meet tactical data exchange requirements within a critical and/or warfighting environment (e.g., safety of life, tactical targeting)
- Conduct analytic evaluations to define and plan implementation of key technologies to include tactical information integration and configuration management
- Demonstrate TDES being accessible to other webservers/systems via extensible markup language (XML) translation for Advanced Waveforms initiatives
- Update program metrics that follow the OSD Net-Centric Checklist
- Continue development of approved standards, protocols, and processes for implementation and testing across programs from end to end including end-to-end testing.
- Complete Joint warfighter utilization of networked Internet Protocol (IP) data in tactical systems
- Initiate the Joint Interoperability Enhancement Process (IEP) to improve Joint and Allied TDL/TDES capabilities adn provide Operators, Engineeris, and Program Managers the ability to determine systems interoperability and define work-arounds and required systems improvements
- Provide the initial drafts for the integration of the Common Data Link (CDL) family of waveforms into the JTMP roadmap
- Provide the initial drafts for the Integrated Broadcast System (IBS) into the JTMP roadmap
- Initiate the integration of Allied participants into the Joint JTMP starting with United Kingdom (UK)
- Develop policy-based network management preferred system concept and methodology for enterprise situational awareness. Current Programs of record are developed autonomously and need a common interface and visualization approach.
- Develop an ad hoc mobile net-centric tactical wireless architecture for 2020 that interfaces with the GIG

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	- Initiate the integration of Australian participants into the Joint - Joint C41 Exercise participation to degreenstate warfighter net
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	- Publish the first TIMP with the incorporation of the Common
processes for himplementation and testing across programs including end-to-end testing	- Update program metrics that follow the OSD Met-Centric Che
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crical gateways and the Joint Interoperability of Tactrical Command and Control Systems (JINTACCS)	- Revise and update 2007 TOES transformed and property of the terminant of the state of the terminant from the state of th
ity Enhancement Process (IEP)	- Execute a Joint Decounstration of the Joint TDES Interoperabil
s for TDES unigration	- Lead Joint team with OSD, JCS, DISA, Services, and Agencie
[MP] documenting the TDES unigration toward the Department's MCOW objectives	
	FY 2008 PLANS (\$17.079 in this in the state of the state
	B. Accomplishments/Planned Program
PTT Link-16 Tactical Data Link (TDL) Transformstion	RDT&E Defense-Wide/B.A.5
PROJECT NUMBER AND NAME	APPROPRIATION/BUDGET ACTIVITY
EDT&E Project Justification DATE Pebruary 2006	EXHIBIT R-24, F
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EXHIBIT R-3, Cost Analysis									DATE:	
									February 2006	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELE	MENT			PROJECT NUN	ABER AND NAM	4E	
RDT&E Defense-Wide/BA-5			0604771D8Z				P771 Link-16 7	factical Data Lir	ik (TDL) Transf	ormation
	Contract	Performing	Total		FY 2006		FY 2007			Target
Cost Categories	Method	Activity &	PYs	FY 2006	Award	FY 2007	Award	Cost to	Total	Value of
(\$ in millions)	& Type	Location	Cost	Cost	Date	Cost	Date	Complete	Cost	Contract
Product Development										
Spectrum Support	Various	Various	12.248	1.140	Various	1.000	Various	Continuing	Continuing	Continuing
Data Link Migration Engineering Support	Various	Various	14.227						14.227	
Net-Centric Engineering	Various	Various	1.604	2.227	Various	1.015	Various	Continuing	Continuing	Continuing
GIG Engineering Support	Various	Various	6.682	2.929	Various	0.912	Various	Continuing	10.523	Continuing
Enhancements	Various	Various	0.626	0.300					0.926	
JICO Toolset (JSS) Development	Various	Various	0.529						0.529	
Joint Initiatives	Various	Various	2.157	0.969	Various	1.000	Various	Continuing	Continuing	Continuing
Joint TDES Migration and Technology Inscriion Plan	Various	Various	6.092	0.740	Various	3.070	Various	Continuing	Continuing	Continuing
Joint and International Engineering	Various	Various	2.691	2.094	Various	0.130	Various	Continuing	Continuing	Continuing
Joint Interoperability Enhancement Process	Various	Various	0.000	0.490	Various	1.050	Various	Continuing	Continuing	Continuing
Weapons Networks	Various	Various	1.403						1.403	
Web Enabled Cockpit	Various	Various	1.280						1.280	
Subtotal Product Development			49.539	10.889		8.177				
Total Cost			49.539	10.889	 	8.177		T		

EXHIBIT R-4, Schedule Profile		7-17			-12.																	DAT				Fel	rua	ry 20	06				
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TDES migration to NCOW - Joint TDES Migration Plan (JTMP)								D	ata C	all		Publ	ish 2	006		Data	Call			Publ	ish 20	800		Dat	a Cal	1		Pu	blish :	2010		Data	Call
GIG End-to-End Testbed				Init	iate				Oį	erati	onal																T						
Joint Web Enabled Cockpit					Init	iate			irbor onst	ne ration			xerci																				
Joint Networked Weapons Concept of Operations				Init	iate				C	ONO	PS																						
Joint Networked Unmanned Air/Ground/Maritime Vehicles Integrated into JTMP											Initi	ate			Drai	1		Itegr to JT			First with				Upc	date						U	pdate
Integrated Broadcast Service (IBS), and Common Data Link (CDL) integration to ITMP											Initiat	e			Draf	t		Integ to JT	rate MP		First with	JTM IBS/0			Upc	late						U	pdate
Integrate selected Allied TDES Migration into JTMP																		nitiat S Effo		nitiat UK	e				o JTN			1		Upda	te UK		Aus DI MP
Interoperability Enhancement Process (IEP)														,	initiat	e	Dem	Joint onstr										1					
GIG Capability Delivery Plan					1	1				nitia:	e 	Plan	Deli	very				4						-	-	-	+	+-	+	-	+-		-
Wireless Architecture Policy	-	T	+	+	+	\dagger	1		nitial	e e	1	olicy	Dev	elope	d	-								-	-	-	+	+	-	-	-		_
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EXHIBIT R-4a, Schedule Detail	DDOGDAM	ELEMENT			PROJECT NUM	ABER AND NA	ME
APPROPRIATION/BUDGET ACTIVITY RDT&E Defense-Wide/BA-5	0604771D8				P771 Link-16	'actical Data L	ink (TDL)
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Initiate Web Enabled Cockpit (WEC) Demonstration	1Q						
Draft Joint TDES Migration Plan (JTMP)	3Q						
Airborne Demostration of WEC	4Q						
GIG End-to-End Testbed Operational	1	1Q					
Newtorked Weapons CONOPS	 	1Q					
Initiate Unmanned Vehicle into JTMP	 	2Q					
Initiate Common Data Link (CDL) integration into JTMP	 	2Q					
Initiate Integrated Broadcast Service (IBS) into JTMP	 	2Q					
Publish 2006 JTMP	 	3Q					
Joint C41 Exercise with WEC	1	4Q					
GIG Capability Delivery Plan	+	4Q					
Wireless Architecture Policy	 	4Q	1				
Initiate Allied Integration into JTMP	·	 	1Q				
Draft Unmanned Vehicle into JTMP	 	 	2Q				
Draft Common Data Link (CDL) integration into JTMP		 	2Q		1		
Draft I Integrated Broadcast Service (IBS) in JTMP	+	 	2Q		1		
Initiate Interoperability Enhancement Process (IEP)	 	 	2Q				
Tactical Wireless Architecture	 	 	20		1		
Network Management	1	 	2Q				
Update JTMP Draft 2008	 	 	3Q		 		
Initiate UK into JTMP	 	 	3Q	·	+	<u> </u>	
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