CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification		_	·		·	· ·	DATE:	·
•							FEBRU#	ARY 2005
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NA	VY / BA-5			R-1 ITEM NOMEN 0604574N / NAVY		PUTER RESOURCE	ES	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	12.235	8.298	2.220	2.701	2.774	2.830	2.897	2.965
1353 Standard Hardware	12.235	6.320	2.220	2.701	2.774	2.830	2.897	2.965
9579 Compact Ultra Fast Laser System Development		1.978						

A. Mission Description and Budget Item Justification: The AN/UYQ-70(V) program must incorporate state-of-the-art Commercial-off-the-Shelf/Open System Architecture (COTS/OSA) technological improvements continuously and rapidly, in order to meet rapidly evolving future customer requirements. The AN/UYQ-70(V) program provides the de facto standard for state-of-the-art commercial-off-the-shelf (COTS) processors and displays for all mission-essential/mission-critical combat systems, weapons systems, self-defense systems, command and control systems, and communications systems utilized in all USN combatants. The Q-70 product baseline continues to require increased capability in order to satisfy the needs of future FORCENET network-centric Open Architecture combat system designs. This funding also supports the continuing spiral development of Q-70 and Future Combat System DIsplay (FCDS), which will be the standard display system for all new combat systems on all new ship designs. This FCDS development will incorporate vastly improved HSI (human systems interface) characteristics, and migration to full Open Architecture Computing Environment (OACE) requirements. Execution of FCDS is entirely dependent upon this RDT&E funding.

*FY04 includes three Congressional Adds totaling \$10.4M Q-70 Secure Voice System - 2.550 million Ultra Thin Client Network Solution - 1.500 million Q-70 technology - 6.350 million

**FY05 includes two Congressional Adds totaling \$5.978M Q-70 technology - 4.000 million Compact Ultra Fast Laser System Development - 1.978 million

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							FEBRUA	ARY 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AN	D NAME	PROJECT NUMBI	ER AND NAME; 13	53/Standard Hardv	vare	
RDT&E, N / BA-5	0604574N / NAVY	TACTICAL COMP	UTER RESOURCES	1353 Standard F	lardware			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	12.235	6.320	2.220	2.701	2.774	2.830	2.897	2.965
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

A. Mission Description and Budget Item Justification: The AN/UYQ-70(V) program must incorporate state-of-the-art Commercial-off-the-Shelf/Open System Architecture (COTS/OSA) technological improvements continuously and rapidly, in order to meet rapidly evolving future customer requirements. The AN/UYQ-70(V) program provides the de facto standard for state-of-the-art commercial-off-the-shelf (COTS) processors and displays for all mission-essential/mission-critical combat systems, weapons systems, self-defense systems, command and control systems, and communications systems utilized in all USN combatants. The Q-70 product baseline continues to require increased capability in order to satisfy the needs of future FORCENET network-centric Open Architecture combat system designs. This funding also supports the continuing spiral development of Q-70 and Future Combat System Display (FCDS), which will be the standard display system for all new combat systems on all new ship designs. This FCDS development will incorporate vastly improved HSI (human systems interface) characteristics, and migration to full Open Architecture Computing Environment (OACE) requirements. Execution of FCDS is entirely dependent upon this RDT&E funding.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			FEBRUARY 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME; 1353/Standard Hardware
RDT&E, N / BA-5	0604574N / NAVY TACTICAL COMPUTER RESOURCES	1353 Standard Hardware	
	·		

B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	8.185	6.320	2.220	2.774
RDT&E Articles Quantity				

FY2004 Accomplishments: Continued development of Q-70 technical insertion initiatives including a replacement for the legacy SPA-25G radar, a modification to the present CND variant to meet SLQ-32 and NSSMS requirements, development of LAN security features, and development of several new operating system baselines. Requirements gathering and analysis for FCDS effort. FY04 funding includes Congressional Add of \$6.350.

FY2005 Plan: Preparation for FCDS development contract competition. Continue technology insertion efforts for production Q-70 contract. FY05 funding includes Congressional Add of \$4.0M.

FY2006 Plan: Contract award for FCDS development, and begin development of FCDS. Continue technology insertion efforts for production Q-70 contract.

FY2007 Plan: Continue development of FCDS. Continue technology insertion efforts for production Q-70 contract.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	2.550	0.000	0.000	0.000
RDT&E Articles Quantity				

FY 2004 Accomplishments: Development of modifications of the Q-70 Secure Voice System (SVS) to meet carrier class communications and environmental requirements. Funding is Congressional Add.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.500	0.000	0.000	0.000
RDT&E Articles Quantity				

FY 2004 Accomplishments: Continued development of a stateless, ultra thin client network solution that provides data separation and privacy over the network via NSA certified solution that supports secure voice, video, and data requirements of the war fighter. Funding is Congressional Add.

CLASSIFICATION:

KHIBIT R-2a, RDT&E Project Justification				DATE: FEBRUARY 2005
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND	NAME; 1353/Standard Hardware
DT&E, N / BA-5	0604574N / NAVY TACTICAL COMPUTER RESOURCES		1353 Standard Hardwar	e
C. PROGRAM CHANGE SUMMARY:				
Funding:	FY 2004 FY 2	2005	FY 2006 FY 200	07
FY2005 President' Budget		2.381	2.472 2.98	34
FY2006 President's Budget		3.298		
Total Adjustments	-0.286 5	5.917	-0.252 -0.28	33
Summary of Adjustments				
Non-pay Inflation Savings	-0.010			
Cancelled Accounts	-0.006			
Management Improvements	-0.270			
AN/UYQ-70 Congressional Add		1.000		_
Miscellaneous Adjustments		0.083		
Subtotal	-0.286 3	3.917	-0.252 -0.28	33
Technical:				
N/A				
IN/A				

CLASSIFICATION:

	&E Project Justification								DATE:	FEBRU <i>A</i>	ARY 2005
PPROPRIATION/BUDG	GET ACTIVITY		PROGRAM EL	EMENT NUMBE	ER AND NAME		PROJECT NU	JMBER AND N	L\		
DT&E, N /	BA-5		0604574N / NA	AVY TACTICAL	COMPUTER RES	OURCES	1353 Standa	ard Hardware			
D. OTHER PROC	GRAM FUNDING SUMMARY:										
										To	Total
Line Item No. &	Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost
Other Program Fu	unding Summary										
•	I RDT&E										
Relateu	INDIGE										
	N (ADV COMBAT SYS TECHNOLOGY)	14.993	66.951	30.166	30.753	31.923	32.631	33.396	34.047		
PE 0603382		14.993 126.231	66.951 108.016	30.166 122.122	30.753 140.480	31.923 161.880	32.631 245.151	33.396 233.104	34.047 240.239		
PE 0603382 PE 0603502	N (ADV COMBAT SYS TECHNOLOGY)										
PE 0603382 PE 0603502 PE 0604307	RN (ADV COMBAT SYS TECHNOLOGY)	126.231	108.016	122.122	140.480	161.880	245.151	233.104	240.239		
PE 0603382 PE 0603502 PE 0604307 PE 0604366	RN (ADV COMBAT SYS TECHNOLOGY) RN (SHALLOW WATER MCM) RN (AEGIS WEAPON SYS MODS)	126.231 215.584	108.016 157.159	122.122 216.313	140.480 227.951	161.880 254.972	245.151 235.232	233.104 255.320	240.239 273.179		
PE 0603382 PE 0603502 PE 0604307 PE 0604366 PE 0604755	RN (ADV COMBAT SYS TECHNOLOGY) RN (SHALLOW WATER MCM) RN (AEGIS WEAPON SYS MODS) RN (STD MSL IMP)	126.231 215.584 73.654	108.016 157.159 110.775	122.122 216.313 145.634	140.480 227.951 188.623	161.880 254.972 223.877	245.151 235.232 240.847	233.104 255.320 163.322	240.239 273.179 71.380		
PE 0603382 PE 0603502 PE 0604307 PE 0604366 PE 0604755 PE 0604503	RN (ADV COMBAT SYS TECHNOLOGY) RN (SHALLOW WATER MCM) RN (AEGIS WEAPON SYS MODS) RN (STD MSL IMP) RN (SHIP SELF DEFENSE)	126.231 215.584 73.654 51.774	108.016 157.159 110.775 66.059	122.122 216.313 145.634 45.931	140.480 227.951 188.623 7.136	161.880 254.972 223.877 6.308	245.151 235.232 240.847 5.495	233.104 255.320 163.322 0.780	240.239 273.179 71.380 0.227		

F. MAJOR PERFORMERS:

N/A

CLASSIFICATION:

	ge 1)											FEBRUARY 2	005	
APPROPRIATION/BUDGET ACTIV	'ITY		AM ELEMENT				JMBER AND N	AME; 1353/St	andard Hardwa	ire				
RDT&E, N / BA-5	10		N / NAVY TACTICA	L COMPUTER		1353 Standa		1	F)/ 00		E)/ 07		ı	1
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Valu
Primary Hardware Development	Various	Various	195.500										195.500	
Ancillary Hardware Development	Various	Various	0.650										0.650	
Component Development													0.000	
Ship Integration													0.000	
Ship Suitability													0.000	
Systems Engineering	Various	Various	77.222	5.000	05/04	3.547	10/04	1.247	10/05	1.682	10/06	Continuing	Continuing	
Training Development			1.000										1.000	
Licenses			1.000										1.000	
													0.000	
Tooling													0.000	
Tooling GFE													0.000	
													0.000	
GFE			275.372	5.000		3.547		1.247		1.682		Continuing		
GFE Award Fees Subtotal Product Development			275.372	5.000		3.547		1.247		1.682		Continuing	0.000	
GFE Award Fees Subtotal Product Development Remarks:	Various	Various	275.372	5.000		3.547		1.247		1.682		Continuing	0.000	
GFE Award Fees Subtotal Product Development Remarks:	Various Various	Various Various	275.372					1.247		1.682		Ÿ	0.000 Continuing	
GFE Award Fees Subtotal Product Development Remarks: Development Support Software Development				1.000				1.247		1.682		Continuing	0.000 Continuing Continuing	
GFE Award Fees Subtotal Product Development Remarks: Development Support Software Development Training Development	Various	Various	39.109	1.000 0.900				1.247		1.682		Continuing Continuing	0.000 Continuing Continuing Continuing	
GFE Award Fees Subtotal Product Development Remarks: Development Support Software Development Integrated Logistics Support	Various Various	Various Various	39.109 1.375	1.000 0.900 0.200				1.247		1.682		Continuing Continuing Continuing	0.000 Continuing Continuing Continuing Continuing Continuing	
GFE Award Fees Subtotal Product Development	Various Various Various	Various Various Various	39.109 1.375 2.172	1.000 0.900 0.200 0.300				1.247		1.682		Continuing Continuing Continuing Continuing	0.000 Continuing Continuing Continuing Continuing Continuing Continuing	
GFE Award Fees Subtotal Product Development Remarks: Development Support Software Development Integrated Logistics Support Configuration Management	Various Various Various Various	Various Various Various Various	39.109 1.375 2.172 0.700	1.000 0.900 0.200 0.300 1.920				1.247		1.682		Continuing Continuing Continuing Continuing Continuing Continuing	Continuing Continuing Continuing Continuing Continuing Continuing Continuing Continuing	
GFE Award Fees Subtotal Product Development Remarks: Development Support Software Development Integrated Logistics Support Configuration Management Technical Data	Various Various Various Various	Various Various Various Various	39.109 1.375 2.172 0.700	1.000 0.900 0.200 0.300 1.920				1.247		1.682		Continuing Continuing Continuing Continuing Continuing Continuing	Continuing Continuing Continuing Continuing Continuing Continuing Continuing Continuing Continuing	

CLASSIFICATION:

Exhibit R-3 Cost Analysis (pa	20 2)											FEBRUARY 20	005	
APPROPRIATION/BUDGET ACTIV			PROGRAM ELEMENT			PROJECT NU	JMBER AND N	AME: 1353/Sta	andard Hardwa	ire		TEBRUART 20	, , , , , , , , , , , , , , , , , , , 	
RDT&E, N / BA-5			0604574N / NAVY TACTIC	AL COMPUTER	RESOURCES		rd Hardware							
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Valu
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contrac
Developmental Test & Evaluation	Various	Various	25.485	0.815		0.343		0.311		0.432		Continuing	Continuing	Continuing
Operational Test & Evaluation	Various	Various	17.528	0.900		0.430		0.430		0.482		Continuing	Continuing	Continuing
Live Fire Test & Evaluation	_													
Test Assets														
Tooling														<u> </u>
GFE														
Award Fees														
Subtotal T&E			43.013	1.715		0.773		0.741		0.914		Continuing	Continuing	
Remarks:														
Remarks:														
Remarks: Government Engineering Services Program Management Support				1.000		0.000		0.000		0.000		Continuing	Continuing	
Government Engineering Services			0.000	1.000		0.000		0.000		0.000		Continuing Continuing	Continuing Continuing	
Government Engineering Services Program Management Support			0.000											
Government Engineering Services Program Management Support Subtotal Management				1.000		0.000		0.000		0.000		Continuing	Continuing	

CLASSIFICATION:

EXHIBIT R4, Schedule															Not /	Applio	cable								DATE			BRU		2005		
APPROPRIATION/BUDGET									PROG					1 dna	NAME						PROJEC				ME; 13	53/Sta	ndard l	Hardwa	re			
RDT&E, N /	BA-5	i							06045	74N / I	VAVY -	TACTIO	CAL CO	OMPUT	ER RE	SOUR	CES				1353 St	andard	d Hard	ware	1							
Fiscal Year		20	004	1		20	05			20	06	ı		20	07			20	800			200)9			20	010			20	11	ı
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
. Not Applicable																																

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
	Not Applicable	е					FEBRUAR	Y 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	IAME; 1353/Star	ndard Hardware
RDT&E, N /BA-5			L COMPUTER	RESOURCES	1353 Standa			
Schedule Profile		FY 2005		FY 2007	FY 2008		FY 2010	FY 2011
Not applicable								
			+				+	
			+				+	
				-				
		1			1			

CLASSIFICATION:

PMS 405 ONLY

EXHIBIT R-2, RDT&E Budget Item Justification	DATE:							
-							Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMEN			
RESEARCH DEVELOPMENT TEST & EVALUATION	, NAVY /	BA-4			0604574N Navy Ta	actical Computer R	esources	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	0.000	1.978	0.000	0.000	0.000	0.000	0.000	0.000
9579								
Compact Ultra Fast Laser System Development		1.978						

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

FY 2005 Congressional Add. Compact Ultra-fast laser systems (systems generating pulses of light with a duration of less than 100 fs) have been employed in a wide variety of areas from material processing, medical procedures, and various diagnostics procedures. This effort will design and develop the military specifications for a compact, rugged, maritime-environment-capable, ultra-fast laser that satisfies U. S. Navy requirements.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

RDT&E Articles Quantity

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
				Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	IBER AND NAME	PROJECT NUMBER AND N	NAME	
RDT&E, N / BA-4	0604574N Navy Tactical Co	mputer Resources	S9579 Compact Ultra Fast L	aser System Development	
B. Accomplishments/Planned Program					
Spectral Beam Comb. Fiber Lasers	FY 04	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.000	1.978	0.000	0.000	

N/A

FY 05 - Ultra-fast laser systems (systems generating pulses of light with a duration of less than 100 fs) have been employed in a wide variety of areas from material processing, medical procedures, and various diagnostics procedures. The use of ultra-fast systems in the soft kill of missile systems shows great potential, specifically in the short-range surface-to-air missile defense system role, for both military and civilian aircraft and ships. The primary issue with the available ultra-fast laser systems is that typical users have not been concerned with size, but with serviceability. A typical ultra-fast laser system is comprised of many complicated components or sub-systems that are separated to make the system adaptable to the specific requirements of the user. To date, this has made the system too large to mount on aircraft; additionally, these systems have not been rugged enough to place onboard ships. This effort would design and develop the military specifications for a compact, rugged, maritime-environment-capable, ultra-fast laser that satisfies U. S. Navy requirements.

N/A

R-1 SHOPPING LIST - Item No.

117

N/A

N/A

CLASSIFICATION:

IIBIT R-2a, RDT&E Project Justification					DATE:	0005
ROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUME	RER AND NAME		PROJECT NUMBER A		ruary 2005
C&E, N / BA-4	0604574N Navy Tactical Com				ast Laser System Development	
CE, N / DA-4	0004374N Navy Tactical Coll	iputer ixesources		937 9 Compact Oilla i a	ast Laser System Development	
C. PROGRAM CHANGE SUMMARY:						
Funding:	FY 200	04 FY 2005	FY 2006	FY 2007		
FY2005 President's Budget	0.00		0.000			
FY2006 President's Budget	0.00	00 1.978	0.000			
Total Adjustments	0.00	00 1.978	0.000	0.000		
Summary of Adjustments						
Congressional Increases	0.00	00 2.000	0.000	0.000		
Congressional Rescissions	0.00		0.000			
Subtotal	0.00	00 1.978	0.000	0.000		
Schedule:						
Not Applicable.						
Technical:						
Not Applicable.						
11						

CLASSIFICATION:

EXHIBIT R-2a, RDT&E I	Project Justification								DATE:			
										Februa	ry 2005	
APPROPRIATION/BUDGET	ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	ИΕ	PROJECT NU	MBER AND N	AME			
RDT&E, N /	BA-4		0604574N Nav	y Tactical Co	mputer Resour	ces	S9579 Compa	ct Ultra Fast L	aser System D	evelopment		
D. OTHER PROGRAM	I FUNDING SUMMARY:									То	Total	
Line Item No. & Nan 0604755N	<u>ne</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost	
Directed Energ 0603582N	y User Scrutiny Equip.		2.476								2.476	
Multiple Items 0205601N		11.994	24.204									
Spectral Beam	Combining Fiber Lasers Do	evelopment	0.988									

E. ACQUISITION STRATEGY:

Not Applicable (R&D effort only)

F. MAJOR PERFORMERS:

Government Field Activities: AFRL; NAVAIR; NRL; NSWC CD; NSWC Crane; NSWC DD; NSWC PHD; PMRF; SPAWAR.

Academia: Argonne Laboratory; Brooks Institute; Center for Naval Analysis; Institute of Advanced Technology; Los Alamos National Laboratory; MIT; Naval Postgraduate School; Penn State University; Thomas Jefferson Laboratory; University of Texas at Austin.

Contractors: Acculight; AES; Decade Optical Systems; Ionatron; Raytheon; Analytical Research; Schafer; Envisioneering; SPA; Textron; Brashear; TRW; Whitney, Bradley & Brown; General Atomics;

Titan; QinetiQ; Noesis; SYS, Perot; EWA.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

										DATE:						
Exhibit R-3 Cost A	nalysis (pag	ge 1)											Februa	ry 2005		
APPROPRIATION/BL	DGET ACTIVI	TY		PROGRAM E	LEMENT			PROJECT N	JMBER AND I	NAME				-		
RDT&E, N /	BA-4			0604574N Na	vy Tactical Co	mputer Resou	rces	S9579 Comp	act Ultra Fast	Laser System	Development					
Cost Categories		Contract Method & Type	Performing Activity & Location		Total PY s Cost	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Compact Ultra Fast La			Various					1.978	_					'	2.476	
	, , , , , , , , , , , , , , , , , , , ,														_	
								1								
							1							1		
							1							1		
Total			1					1.978							2.476	1

Remarks:

Mutiple funding documents and contract vehicles were utilized to obtain the services of the government field activities, academia, and contractors listed on the R-2a Page 6. Costs shown reflect all expenses (management, engineering, cost of doing business, travel, etc.).

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R4, Schedule														N	ot Ap	plica	ble								DATE		F	ebrua	ary 20	05		
APPROPRIATION/BUDGE														R AND	NAMI	E						IECT N										
RDT&E, N /	BA-4								06045	74N N	lavy Ta	actical	Comp	uter Re	source	es					S9579	9 Comp	oact UI	tra Fa	st Lase	er Syste	em De	velopn	nent			
Fiscal Year		20	004	,		20	05			20	06	r		20	07			20	800			20	09	•		20	10	r		201	11	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Not applicable																																

 $^{^{\}star}$ Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:						
	Not Applicable	9				February 2005						
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	UMBER AND NAME						
RDT&E, N / BA-4	0604574N Nav		nputer Resourc	S9579 Compact Ultra Fast Laser System Development								
Schedule Profile	FY 2004			FY 2007	FY 2008	FY 2009		FY 2011				
Not applicable												

R-1 SHOPPING LIST - Item No.