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NPIC DATA SYSTEM
DATA AND CONTROL SEGMENT
ACQUISITION PHASE

APPENDIX C2
WBS INDEX

REVISION

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31 March 1982

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NPIC DATA SYSTEM
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APPENDIX C2

WBS INDEX

As now edited, this revised WBS Index reflects the correct level 5 WBS elements for our BAFO baseline bid package. Adjustments are of four types:

(1) Some level 5 WBS elements which were erroneously omitted, have been added.

(2) Some level 5 (and level 6) WBS elements have been marked reserved where it was determined that they were not required for the basic bid; no Appendix C1 data sheets exist for these.

(3) In a few instances, costs intended to go into one level 5 element were erroneously budgeted in another WBS element. These instances are appropriately identified.

(4) In a few instances, a level 5 WBS element contains only purchase, computer, or travel cost and no labor costs. These instances are now annotated in the Index; no Appendix C1 data sheets exist for these.

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X D/C Segment	140000						
	X Project Management	241000	X			0001		
	X Project Management	341100	X			0001		
	X Project Management	441100	X			0001		
	X Provide Project Management (2d & 3d Level)	541100	X			0001		
	X Provide Project Management (2d & 3d Level) Including NDPO Interface - BOC	641100	X			0001		
	X Provide Project Management (2d & 3d Level) Including NDPO Interface - IOC	641101	X			0001		
	X Provide Project Management (2d & 3d Level) Including NDPO Interface - FOC	641102	X			0001		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Project Control	341200	X			0001		
	X Project Control	441200	X			0001		
	X Project Control	541200	X			0001		
	X Monitor, Control and Report Schedule Status - BOC	641200	X			0001		
	X Monitor, Control and Report Schedule Status - IOC	641201	X			0001		
	X Monitor, Control and Report Schedule Status - FOC	641202	X			0001		
	X Monitor, Control and Report Cost Status - BOC	641203	X			0001		
	X Monitor, Control and Report Cost Status - IOC	641204	X			0001		
	X Monitor, Control and Report Cost Status - FOC	641205	X			0001		

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	X Quality Assurance	341300	X			0001		
	X Quality Assurance	441300	X			0001		
	X Provide & Implement Quality Assur. Plan	541300	X			0001		
	X Provide Quality Assurance Plan - BOC	641300	X			0001		
	X Implement Software Quality Assurance - BOC	641301	X			0001		
	X Implement Software Quality Assurance - IOC	641302	X			0001		
	X Implement Software Quality Assurance - FOC	641303	X			0001		
	X Implement Hardware Quality Assurance - BOC	641304	X			0001		
	X Implement Hardware Quality Assurance - IOC	641305	X			0001		
	X Implement Hardware Quality Assurance - FOC	641306	X			0001		
	X Monitor Subcontractor Quality Assurance - BOC	641307	X			0001		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Monitor Subcontractor Quality Assurance - IOC	641308	X			0001		
	X Monitor Subcontractor Quality Assurance - FOC	641309	X			0001		
	X Provide QA Audit Reports - BOC	641310	X			0001		

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	X Configuration Management	341400	X			0001		
	X Configuration Management	441400	X			0001		
	X Provide Config. Mgmt. of HW, SW, Procedures and Documentation Per NDPO & Contractor CM Plans	541400	X			0001		
	X Prepare and Maintain CM Plan and Procedures and Documentation - BOC	641400	X			0001		
	X Prepare Eng'g Change Notices/Requests and Other CM Related Documents - BOC	641401	X			0001		
	X Prepare Eng'g Change Notices/Requests and Other CM Related Documents - IOC	641402	X			0001		
	X Prepare Eng'g Change Notices/Requests and Other CM Related Documents - FOC	641403	X			0001		
	X Perform CM Audits - BOC	641404	X			0001		
	X Perform CM Audits - IOC	641405	X			0001		

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	X Provide Master Product & Document Control	541401	X			0001		
	X Provide Master Product & Document Control - BOC	641407	X			0001		
	X Provide Master Product & Document Control - IOC	641408	X			0001		
	X Prepare and Maintain Software Version Description Document - BOC	641410	X			0001		
	X Prepare and Maintain Software Version Description Document - IOC	641411	X			0001		
	X Prepare and Maintain Software Version Description Document - FOC	641412	X			0001		
	X Administer the Contractor WBS	541402	X			0001		
	X Administer the Contractor WBS - BOC	641413	X			0001		
	X Administer the Contractor WBS - IOC	641414	X			0001		
	X Administer the Contractor WBS - FOC	641415	X			0001		

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	X Security	341500	X			0001		
	X Security	441500	X			0001		
	X Security	541500	X			0001		
	X Prepare Project Security Plan and Security Procedures - BOC	641500	X			0001		
	X Implement Security Procedures - BOC	641501	X			0001		
	X Implement Security Procedures - IOC	641502	X			0001		
	X Implement Security Procedures - FOC	641503	X			0001		

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	X Status Reviews	341600	X			0001		
	X Status Reviews	441600	X			0001		
	X Status Reviews	541600	X			0001		
	X Provide Monthly Status Reviews - BOC	641600	X			0001		
	X Provide Monthly Status Reviews - IOC	641601	X			0001		
	X Provide Monthly Status Reviews - FOC	641602	X			0001		
	X Subcontractor Management	341700	X			0001		
	X Subcontractor Management	441700	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of Subcontractors	541700	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - BOC	641700	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - IOC	641701	X			0001		

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	X Provide Management, Control and Visibility to Cost & Schedule of - FOC	641702	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - BOC	641703	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - IOC	641704	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - FOC	641705	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - BOC	641706	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - IOC	641707	X			0001		
	X Provide Management, Control and Visibility to Cost & Schedule of - FOC	641708	X			0001		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Document Publication and Control	341800	X				0001		
	X Document Publication and Control	441800	X				0001		
	X Document Publication and Control	541800	X				0001		
	X Provide Publication, Maintenance and Control of all Project Documentation - BOC	641800	X				0001		
	X Provide Publication, Maintenance and Control of all Project Documentation - IOC	641801	X				0001		
	X Provide Publication, Maintenance and Control of all Project Documentation - FOC	641802	X				0001		
	X Prepare and Administer Document Management Plan - BOC	641803	X				0001		

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		X					System Engineering	242000	X				0002		
			X				System Engineering Management	342100	X				0002		
				X			System Engineering Management	442100	X				0002		
					X		Provide Tech. Mgmt of Project	542100	X				0002		
						X	Provide Tech. Mgmt of Project - BOC	642100	X				0002		
						X	Provide Tech. Mgmt of Project - IOC	642101	X				0002		
						X	Provide Tech. Mgmt of Project - FOC	642102	X				0002		
					X		Provide/Enforce S/W-Opns-HW Interface Stds	542101	X				0002		
						X	Provide/Enforce S/W-Opns-HW Interface Stds - BOC	642103	X				0002		
						X	Provide/Enforce S/W-Opns-HW Interface Stds - IOC	642104	X				0002		
						X	Provide/Enforce S/W-Opns-HW Interface Stds - FOC	642105	X				0002		
					X		Prepare Segment Development Plan	542102	X				0002		
						X	Prepare Segment Development Plan - BOC	642106	X				0002		

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	X Analysis	342200	X			0002		
	X Analysis	442200	X			0002		
	X Provide Requirements Analysis & Traceability	542200	X			0002		
	X Provide Requirements Analysis & Traceability - BOC	642200	X			0002		
	X Provide Requirements Analysis & Traceability - IOC	642201	X			0002		
	X Provide Requirements Analysis & Traceability - FOC	642202	X			0002		
	X Provide Performance Analysis	542201	X			0002		
	X Provide Performance Analysis (Perform Tech Performance Measurements) - BOC	642203	X			0002		
	X Provide Performance Analysis (Perform Tech Performance Measurements) - IOC	642204	X			0002		
	X Provide Performance Analysis (Perform Tech Performance Measurements) - FOC	642205	X			0002		

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					X		Provide RMA Analysis	542202	X				0002		
						X	Provide RMA Analysis - BOC	642206	X				0002		
						X	Provide RMA Analysis - IOC	642207	X				0002		
						X	Provide RMA Analysis - FOC	642208	X				0002		
					X		Prepare Segment Design Analysis Report	542203	X				0002		
						X	Prepare Segment Design Analysis Report - BOC	642209	X				0002		
						X	Prepare Segment Design Analysis Report - IOC	642210	X				0002		
						X	Prepare Segment Design Analysis Report - FOC	642211	X				0002		
					X		Accomplish Trade Studies	542204	X				0002		
						X	Accomplish Trade Studies - BOC	642212	X				0002		
						X	Accomplish Trade Studies - IOC	642213	X				0002		

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	X Accomplish Trade Studies - FOC	642214	X			0002		
	X Provide Eng. Specialties	542205	X			0002	Reserved	
	X Provide Eng. Specialties - BOC	642215	X			0002	Reserved	
	X Provide Support to Intersegment Interface Definition & Requirements Determination	542206	X			0002		
	X Provide Support to Intersegment Interface Definition & Requirements Determination - BOC	642218	X			0002		
	X Provide Support to Intersegment Interface Definition & Requirements Determination - IOC	642219	X			0002		
	X Provide Support to Intersegment Interface Definition & Requirements Determination - FOC	642220	X			0002		
	X Prepare Eng. Technical Notes	542207	X			0002		
	X Prepare Eng. Technical Notes - BOC	642221	X			0002		

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	6 X Prepare Eng. Technical Notes - IOC	642222	X			0002		
	6 X Prepare Eng. Technical Notes - FOC	642223	X			0002		
	3 X Operations Engineering & Development	342300	X			0002		
	4 X Operations Engineering & Development	442300	X			0002		
	5 X Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - BOC	542300	X			0002		
	6 X Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - IOC	642300	X			0002		
	6 X Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng. - FOC	642301	X			0002		
	6 X Develop Segment Operations Concepts, Procedures & Specifications, Including Human Factors Eng.	642302	X			0002		
	5 X Develop User Manuals	542301	X			0002		
	6 X Develop User Manuals - BOC	642303	X			0002		
	6 X Develop User Manuals - IOC	642304	X			0002		

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	X Develop User Manuals - FOC	642305	X				0002		
	X Develop Segment/Systems Operations Manuals	542302	X				0002		
	X Develop Segment/Systems Operations Manuals - BOC	642306	X				0002		
	X Develop Segment/Systems Operations Manuals - IOC	642307	X				0002		
	X Develop Segment/Systems Operations Manuals - FOC	642308	X				0002		
	X Conduct Productivity Enhancement Studies	542303	X				0002		
	X Conduct Productivity Enhancement Studies - BOC	642309	X				0002		
	X Conduct Productivity Enhancement Studies - IOC	642310	X				0002		
	X Conduct Productivity Enhancement Studies - FOC	642311	X				0002		
	X Prepare O & M Plan	542304	X				0002		
	X Prepare O & M Plan - BOC	642312	X				0002		
	X Prepare O & M Plan - IOC	642313	X				0002		
	X Prepare O & M Plan - FOC	642314	X				0002		

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	X Prepare Maintenance & Logistics Plan	542305	X				0002		
	X Prepare Maintenance & Logistics Plan - BOC	642315	X				0002		
	X Prepare Maintenance & Logistics Plan - IOC	642316	X				0002		
	X Prepare Maintenance & Logistics Plan - FOC	642317	X				0002		
	X Design	342400	X				0002		
	X Design	442400	X				0002		
	X Prepare Segment Design Specification Including Requirement Allocation	542400	X				0002		
	X Prepare Segment Design Specification Including Requirement Allocation - BOC	642400	X				0002		

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					X		Provide Data Base Specification	542401	X				0002		
						X	Provide Data Base Specification - BOC	642401	X				0002		
					X		Provide Eng. Specialties Design	542402	X				0002		
						X	Provide Eng. Specialties Design - BOC	642402	X				0002		
					X		Develop Interface Specs.	542403	X				0002		
						X	Develop Interface Specs. - BOC	642405	X				0002		
						X	Develop Interface Specs. - IOC	642406	X				0002		
						X	Develop Interface Specs. - FOC	642407	X				0002		

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	X Transition & Integration Planning and Support	342500	X			0002		
	X Transition & Integration Planning and Support	442500	X			0002		
	X Develop Segment Trans. & Integ. Plan	542500	X			0002		
	X Develop Segment Trans. & Integ. Plan - BOC	642500	X			0002		
	X Develop Segment Trans. & Integ. Plan - IOC	642501	X			0002		
	X Develop Segment Trans. & Integ. Plan - FOC	642502	X			0002		
	X Support Facility Planning, Installation and Checkout	542501	X			0002		
	X Support Facility Planning, Installation and Checkout - BOC	642503	X			0002		
	X Support Facility Planning, Installation and Checkout - IOC	642504	X			0002		
	X Support Facility Planning, Installation and Checkout - FOC	642505	X			0002		

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					X		Support Transition of New Capability into the Operational Environment	542502	X			0002		
						X	Support Transition of New Capability into the Operational Environment - BOC	642506	X			0002		
						X	Support Transition of New Capability into the Operational Environment - IOC	642507	X			0002		
						X	Support Transition of New Capability into the Operational Environment - FOC	642508	X			0002		
			X				Test Support	342600	X			0002		
				X			Test Support	442600	X			0002		
					X		Prepare Segment Verification Plan	542600	X			0002		
						X	Prepare Segment Verification Plan - BOC	642600	X			0002		
						X	Prepare Segment Verification Plan - IOC	642601	X			0002		
						X	Prepare Segment Verification Plan - FOC	642602	X			0002		

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					X		Prepare Segment Test Plan and Prepare Procedures	542601	X				0002		
						X	Prepare Segment Test Plan - BOC	642603	X				0002		
						X	Prepare Segment Test Plan - IOC	642604	X				0002		
						X	Prepare Segment Test Plan - FOC	642605	X				0002		
					X		Support the Execution and Evaluation of Tests	542602	X				0002		
						X	Support the Execution and Evaluation of Tests - BOC	642606	X				0002		
						X	Support the Execution and Evaluation of Tests - IOC	642607	X				0002		
						X	Support the Execution and Evaluation of Tests - FOC	642608	X				0002		

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			X				Config. Mgmt. Support	342700	X				0002		
				X			Config. Mgmt. Support	442700	X				0002		
					X		Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control	542700	X				0002		
						X	Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - BOC	642700	X				0002		
						X	Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - IOC	642701	X				0002		
						X	Evaluate Proposed Changes and Provide Change Request Impact Analysis Including Interface Control - FOC	642702	X				0002		
			X				Technical Reviews	342800	X				0002		
				X			Technical Reviews	442800	X				0002		
					X		PDR Technical Review	542800	X				0002		
						X	PDR Technical Review - BOC	642800	X				0002		

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		X	PDR Technical Review - IOC	642801	X			0002		
		X	PDR Technical Review - FOC	642802	X			0002		
	X		CDR Technical Review	542801	X			0002		
		X	CDR Technical Review - BOC	642803	X			0002		
		X	CDR Technical Review - IOC	642804	X			0002		
		X	CDR Technical Review - FOC	642805	X			0002		
	X		SDR Technical Review	542802	X			0002		
		X	SDR Technical Review - BOC	642806	X			0002		

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					X		Conduct Technical Audits/Misc. Reviews	542803	X				0002		
						X	Conduct Technical Audits/Misc. Reviews - BOC	642809	X				0002		
						X	Conduct Technical Audits/Misc. Reviews - IOC	642810	X				0002		
						X	Conduct Technical Audits/Misc. Reviews - FOC	642811	X				0002		

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		X					Software Development (BOC)	243000	X			0003		
			X				Software Development Management - BOC	343100	X			0003		
				X			Software Development Management - BOC	443100	X			0003		
					X		Manage All SW Devel. Activities	543100	X			0003		
						X	Manage All SW Devel. Activities	643001	X			0003		
					X		Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	543101	X			0003		
						X	NPIC Specific Software Training (Univac System & COBOL)	643002	X			0003		
						X	Software Tool Development	643003	X			0003		
					X		Software Engineering	543102	X			0003		
						X	Software Architecture	643004	X			0003		
						X	Technical Support to Subcontract Mgmt.	643005	X			0003		
						X	Segment PPS & C	643007	X			0003		

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		X	COBOL Code Conversion	643008	X			0003	
	X		Software Control	543103	X			0003	
		X	Library Control	643009	X			0003	
		X	Software Builds & Releases	643010	X			0003	
	X		Provide Inputs to Segment Devel. Plan	543104	X			0003	
		X	Provide Inputs to Segment Devel. Plan	643011	X			0003	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Data Base Implementation (BOC)	543105	X			0003		
	X DMS 1100 Level 6 to Level 8 Conversion	643012	X			0003		
	X Data Base Conversion Design, Implementation, Verification	643014	X			0003		
	X Data Base Package	643015	X			0003		
	X Data Base Support to Development and Test & Verification	643016	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BEPPRE							
	X CPCI: Pre-Exploitation - BOC	343200	X			0003		
	X Prelim. Design	44321A	X			0003		
	X Prepare Prelim. Design Specs	54321A	X			0003		
	X Requirements Analysis & Allocation	643017	X			0003		
	X Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643018	X			0003		
	X Prepare Data Dictionary	643019	X			0003		
	X Prepare Prelim. Part II Specs	643020	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BEPPRE	643021			X	0003		

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	X Critical Design	44322A	X			0003		
	X Prepare Build-to Design Specs	54322A	X			0003		
	X Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643022	X			0003		
	X Prepare Prelim. Programmer's Manual	643023	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BEPPRE	643024			X	0003		
	X Development	44323A	X			0003		
	X Develop CPC's	54323A	X			0003		
	X Code & Unit Test	643025		X		0003		
	X Integr & Test to CPC Level	643026			X	0003		

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	X Test	44324A			X	0003		
	X Test	54324A			X	0003		
	X Test at the CPC and CPCI Levels	643027			X	0003		
	X Develop SW Test Procedures	643028			X	0003		
	X Support Test & Verification	643029			X	0003		
	X Prepare Test Reports	643030			X	0003		

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	X Documentation	44325A	X			0003		
	X Prepare As-built Documentation	54325A	X			0003		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	643031	X			0003		
	X CPCI Listings As-built	643032	X			0003		
	X Prepare Programmer's Manual (Final)	643034	X			0003		
	X Prepare Inputs to Training Manuals	643035	X			0003		
	X Prepare As-built Part II Specs	643036	X			0003		

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	BEMGMT							
	X CPCI: Exploitation Management - BOC	343201	X			0003		
	X Prelim. Design	44321B	X			0003		
	X Prepare Prelim. Design Specs	54321B	X			0003		
	X Requirements Analysis & Allocation	643037	X			0003		
	X Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643038	X			0003		
	X Prepare Data Dictionary	643039	X			0003		
	X Prepare Prelim. Part II Specs	643040	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BEMGMT	643041			X	0003		

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	X Critical Design	44322B	X				0003		
	X Prepare Build-to Design Specs	54322B	X				0003		
	X Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643042	X				0003		
	X Prepare Prelim. Programmer's Manual	643043	X				0003		
	X Prepare CPCI Test Plan (Final) Appendix for BEMGMT	643044	X				0003		
	X Development	44323B	X				0003		
	X Develop CPC's	54323B	X				0003		
	X Code & Unit Test	643045		X			0003		
	X Integr & Test to CPC Level	643046			X		0003		

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	X Test	44324B			X	0003		
	X Test	54324B			X	0003		
	X Test at the CPC and CPCI Levels	643047			X	0003		
	X Develop SW Test Procedures	643048			X	0003		
	X Support Test & Verification	643049			X	0003		
	X Prepare Test Reports	643050			X	0003		

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	X Documentation	44325B	X			0003		
	X Prepare As-built Documentation	54325B	X			0003		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	643051	X			0003		
	X CPCI Listings As-built	643052	X			0003		
	X Prepare Programmer's Manual (Final)	643053	X			0003		
	X Prepare Inputs to Training Manuals	643054	X			0003		
	X Prepare As-built Part II Specs	643055	X			0003		

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	BERESU							
	X CPCI: Exploitation Results - BOC	343202	X			0003		
	X Prelim. Design	44321C	X			0003		
	X Prepare Prelim. Design Specs	54321C	X			0003		
	X Requirements Analysis & Allocation	643056	X			0003		
	X Prepare Prelim. Design Part I Specs and Conduct Internal Design Reviews	643057	X			0003		
	X Prepare Data Dictionary	643058	X			0003		
	X Prepare Prelim Part II Specs	643059	X			0003		
	X Prepare CPCI Test Plan (Prelim) Appendix for BERESU	643060			X	0003		

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				X			Critical Design	44322C	X			0003		
					X		Prepare Build-to Design Specs	54322C	X			0003		
						X	Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643061	X			0003		
						X	Prepare Prelim. Programmer's Manual	643062	X			0003		
						X	Prepare CPCI Test Plan (Final) Appendix for BERESU	643063			X	0003		
				X			Development	44323C	X			0003		
					X		Develop CPC's	54323C	X			0003		
						X	Code & Unit Test	643064			X	0003		
						X	Integr. & Test to CPC Level	643065			X	0003		

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	X Test	44324C			X	0003		
	X Test	54324C			X	0003		
	X Test at the CPC and CPCI Levels	643066			X	0003		
	X Develop SW Test Procedures	643067			X	0003		
	X Support Test & Verification	643068			X	0003		
	X Prepare Test Reports	643069			X	0003		

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	X Documentation	44325C	X			0003		
	X Prepare As-built Documentation	54325C	X			0003		
	X CPCI Listings As-built	643071	X			0003		
	X Prepare As-built Part II Specs	643074	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS (1 2 3 4 5 6)	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BMANIP							
	X CPCI: Data Manipulation - BOC	343204	X			0003		
	X Prelim. Design	44321E	X			0003		
	X Prepare Prelim. Design Specs.	54321E	X			0003		
	X Requirements Analysis & Allocation	643094	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643301	X			0003		
	X Prepare Data Dictionary	643095	X			0003		
	X Prepare Prelim. Part II Specs.	643096	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BMANIP	643097			X	0003		

Prelim. Design costs for this CPCI were erroneously budgeted under WBS 54322E, page 41.

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	X Critical Design	44322E	X			0003		
	X Prepare Build-to Design Specs.	54322E	X			0003		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643098	X			0003		
	X Prepare Prelim. Programmer's Manual	643099	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BMANIP	643100	X			0003		
	X Development	44323E	X			0003		
	X Develop CPC's	54323E	X			0003		
	X Code & Unit Test	643101		X		0003		
	X Integr. & Test to CPC Level	643102			X	0003		

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		X	Test	44324E			X	0003		
		X	Test	54324E			X	0003		
		X	Test at the CPC and CPCI Levels	643103			X	0003		
		X	Develop SW Test Procedures	643104			X	0003		
		X	Support Test & Verification	643105			X	0003		
		X	Prepare Test Reports	643106			X	0003		

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	X Documentation	44325E	X			0003		
	X Prepare As-built Documentation	54325E	X			0003		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	643107	X			0003		
	X CPCI Listings As-built	643108	X			0003		
	X Prepare Programmer's Manual (Final)	643109	X			0003		
	X Prepare Inputs to Training Manuals	643110	X			0003		
	X Prepare As-built Part II Specs	643111	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BSTATR							
	X CPCI: Statistics Reporting - BOC	343205	X			0003		
	X Prelim. Design	44321F	X			0003		
	X Prepare Prelim. Design Specs.	54321F	X			0003		
	X Requirements Analysis & Allocation	643112	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643113	X			0003		
	X Prepare Data Dictionary	643114	X			0003		
	X Prepare Prelim. Part II Specs.	643115	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix to BSTATR	643116			X	0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Critical Design	44322F	X			0003		
	X Prepare Build-to Design Specs.	54322F	X			0003		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643117	X			0003		
	X Prepare Prelim. Programmer's Manual	643118	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BSTATR	643119			X	0003		
	X Development	44323F	X			0003		
	X Develop CPC's	54323F	X			0003		
	X Code & Unit Test	643120		X		0003		
	X Integr. & Test to CPC Level	643121			X	0003		

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	X Test	44324F			X	0003		
	X Test	54324F			X	0003		
	X Test at the CPC and CPCI Levels	643122			X	0003		
	X Develop SW Test Procedures	643123			X	0003		
	X Support Test & Verification	643124			X	0003		
	X Prepare Test Reports	643125			X	0003		

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	X Documentation	44325F	X			0003		
	X Prepare As-built Documentation	54325F	X			0003		
	X CPCI Listings As-built	643127	X			0003		
	X Prepare As-built Part II Specs.	643130	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BMMGMT							
	X CPCI: Materials Management - BOC	343207	X			0003		
	X Prelim. Design	44321H	X			0003		
	X Prepare Prelim. Design Specs.	54321H	X			0003		
	X Requirements Analysis & Allocation	643149	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643150	X			0003		
	X Prepare Data Dictionary	643151	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BMMGMT	643153			X	0003		

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	X Critical Design	44322H	X			0003		
	X Prepare Build-to Design Specs	54322H	X			0003		
	X Prepare Prelim. Programmer's Manual	643155	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BMMGMT	643156	X			0003		
	X Development	44323H	X			0003		
	X Develop CPC's	54323H	X			0003		
	X Integr. & Test to CPC Level	643158			X	0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1	2	3	4	5	6		WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
				X			Test	44324H			X	0003		
					X		Test	54324H			X	0003		
						X	Test at the CPC and CPCI Levels	643159			X	0003		
						X	Develop SW Test Procedures	643160			X	0003		
						X	Support Test & Verification	643161			X	0003		
						X	Prepare Test Reports	643162			X	0003		

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	X Documentation	44325H	X				0003		
	X Prepare As-built Documentation	54325H	X				0003		
	X CPCI Listings As-built	643163	X				0003		

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	BCCNTR							
	X CPCI: Command & Control - BOC	343208	X			0003		
	X Prelim. Design	44321I	X			0003		
	X Prepare Prelim. Design Specs.	54321I	X			0003		
	X Requirements Analysis & Allocation	643167	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643168	X			0003		
	X Prepare Data Dictionary	643169	X			0003		
	X Prepare Prelim. Part II Specs.	643170	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BCCNTR	643171			X	0003		

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	X Critical Design	44322I	X			0003		
	X Prepare Build-to Design Specs.	54322I	X			0003		
	X Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643172	X			0003		
	X Prepare Prelim. Programmer's Manual	643173	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BCCNTR	643174			X	0003		
	X Development	44323I	X			0003		
	X Develop CPC's	54323I	X			0003		
	X Code & Unit Test	643175		X		0003		
	X Integr. & Test to CPC Level	643176			X	0003		

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	X Test	44324I			X	0003		
	X Test	54324I			X	0003		
	X Test at the CPC and CPCI Levels	643177			X	0003		
	X Develop SW Test Procedures	643178			X	0003		
	X Support Test & Verification	643179			X	0003		
	X Prepare Test Reports	643180			X	0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Documentation	44325I	X				0003		
	X Prepare As-built Documentation	54325I	X				0003		
	X CPCI Listings As-built	643182	X				0003		

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	BQUERY							
	X CPCI: Query - BOC	343209	X			0003		
	X Prelim. Design	44321J	X			0003		
	X Prepare Prelim. Design Specs.	54321J	X			0003		
	X Requirements Analysis & Allocation	643186	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643187	X			0003		
	X Prepare Data Dictionary	643188	X			0003		
	X Prepare Prelim. Part II Specs.	643189	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BQUERY	643190			X	0003		

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	X Critical Design	44322J	X			0003		
	X Prepare Build-to Design Specs.	54322J	X			0003		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643191	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BQUERY	643192			X	0003		
	X Development	44323J	X			0003		
	X Develop CPC's	54323J	X			0003		
	X Code & Unit Test	643193		X		0003		
	X Integr. & Test to CPC Level	643194			X			

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	X Test	44324J			X	0003		
	X Test	54324J			X	0003		
	X Test at the CPC and CPCI Levels	643195			X	0003		
	X Develop SW Test Procedures	643196			X	0003		
	X Support Test & Verification	643197			X	0003		
	X Prepare Test Reports	643198			X	0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6		WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		X	Documentation	44325J	X			0003		
		X	Prepare As-built Documentation	54325J	X			0003		
		X	CPCI Listings As-built	643200	X			0003		
		X	Prepare As-built Part II Specs.	643203	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BAPPLS							
	X CPCI: Application Support - BOC	343210	X			0003		
	X Prelim. Design	44321K	X			0003		
	X Prepare Prelim. Design Specs.	54321K	X			0003		
	X Requirements Analysis & Allocation	643204	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643205	X			0003		
	X Prepare Data Dictionary	643206	X			0003		
	X Prepare Prelim. Part II Specs.	643207	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BAPPLS	643208			X			

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Critical Design	44322K	X			0003		
	X Prepare Build-to Design Specs.	54322K	X			0003		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643209	X			0003		
	X Prepare Prelim. Programmer's Manual	643210	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BAPPLS	643211			X	0003		
	X Development	44323K	X			0003		
	X Develop CPC's	54323K	X			0003		
	X Code & Unit Test	643212		X		0003		
	X Integr. & Test to CPC Level	643213			X	0003		

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	X Test	44324K			X	0003		
	X Test	54324K			X	0003		
	X Test at the CPC and CPCI Levels	643214			X	0003		
	X Develop SW Test Procedures	643215			X	0003		
	X Support Test & Verification	643216			X	0003		
	X Prepare Test Reports	643217			X	0003		

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	X Documentation	44325K	X			0003		
	X Prepare As-built Documentation	54325K	X			0003		
	X CPCI Listings As-built	643219	X			0003		
	X Prepare Programmer's Manual (Final)	643220	X			0003		
	X Prepare Inputs to Training Manuals	643221	X			0003		
	X Prepare As-built Part II Specs.	643222	X			0003		

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	BDMAPS							
	X CPCI: DBM Application Support - BOC	343211	X			0003		
	X Prelim. Design	44321L	X			0003		
	X Prepare Prelim. Design Specs.	54321L	X			0003		
	X Requirements Analysis & Allocation	643223	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643224	X			0003		
	X Prepare Data Dictionary	643225	X			0003		
	X Prepare Prelim. Part II Specs.	643226	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BDMAPS	643227			X	0003		

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	X Critical Design	44322L	X			0003		
	X Prepare Build-to Design Specs	54322L	X			0003		
	X Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643228	X			0003		
	X Prepare Prelim. Programmer's Manual	643229	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BDMAPS	643230			X	0003		
	X Development	44323L	X			0003		
	X Develop CPC's	54323L	X			0003		
	X Code & Unit Test	643231		X		0003		
	X Integr. & Test to CPC Level	643232			X	0003		

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	X Test	44324L			X	0003		
	X Test	54324L			X	0003		
	X Test at the CPC and CPCI Levels	643233			X	0003		
	X Develop SW Test Procedures	643234			X	0003		
	X Support Test & Verification	643235			X	0003		
	X Prepare Test Reports	643236			X	0003		

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	X Documentation	44325L	X			0003		
	X Prepare As-built Documentation	54325L	X			0003		
	X CPCI Listings As-built	643238	X			0003		
	X Prepare As-built Part II Specs.	643241	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS (1 2 3 4 5 6)	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BTTDEV							
	X CPCI: Test & Training - BOC	343212	X			0003		
	X Prelim. Design	44321M	X			0003		
	X Prepare Prelim. Design Part I Specs.	54321M	X			0003		
	X Requirements Analysis & Allocation	643242	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643243	X			0003		
	X Prepare Data Dictionary	643244	X			0003		
	X Prepare Prelim. Part II Specs.	643245	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for BTTDEV	643246			X	0003		

Prelim. design costs for this CPCI were erroneously budgeted under WBS #54322M, page 69.

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	X Critical Design	44322M	X			0003		
	X Prepare Build-to Design Specs	54322M	X			0003		
	X Prepare Build-to Part II Specs and Conduct Internal Design Reviews	643247	X			0003		
	X Prepare Prelim. Programmer's Manual	643248	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BTTDEV	643249			X	0003		
	X Development	44323M	X			0003		
	X Develop CPC's	54323M	X			0003		
	X Code & Unit Test	643250		X		0003		
	X Integr. & Test to CPC Level	643251			X	0003		

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	X Test	44324M			X	0003		
	X Test	54324M			X	0003		
	X Test at the CPC and CPCI Levels	643252			X	0003		
	X Develop SW Test Procedures	643253			X	0003		
	X Support Test & Verification	643254			X	0003		
	X Prepare Test Reports	643255			X	0003		

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	X Documentation	44325M	X			0003		
	X Prepare As-built Documentation	54325M	X			0003		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	643256	X			0003		
	X CPCI Listings As-built	643257	X			0003		
	X Prepare Programmer's Manual (Final)	643258	X			0003		
	X Prepare Inputs to Training Manuals	643259	X			0003		
	X Prepare As-built Part II Specs.	643260	X			0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	WAPPLS							
	X CPCI: Work Station Applications - BOC	343213	X			0003		
	X Prelim. Design	44321N	X			0003		
	X Prepare Prelim. Design Specs.	54321N	X			0003		
	X Requirements Analysis & Allocation	643261	X			0003		
	X Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643262	X			0003		
	X Prepare Data Dictionary	643263	X			0003		
	X Prepare Prelim. Part II Specs.	643264	X			0003		
	X Prepare CPCI Test Plan (Prelim.) Appendix for WAPPLS	643265			X	0003		

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	X Critical Design	44322N	X			0003		
	X Prepare Build-to Design Specs.	54322N	X			0003		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643266	X			0003		
	X Prepare Prelim. Programmer's Manual	643267	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for WAPPLS	643268			X	0003		
	X Development	44323N	X			0003		
	X Develop CPC's	54323N	X			0003		
	X Code & Unit Test	643269		X		0003		
	X Integr. & Test to CPC Level	643270			X	0003		

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	X Test	44324N			X	0003		
	X Test	54324N			X	0003		
	X Test at the CPC and CPCI Levels	643271			X	0003		
	X Develop SW Test Procedures	643272			X	0003		
	X Support Test & Verification	643273			X	0003		
	X Prepare Test Reports	643274			X	0003		

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	X Documentation	44325N	X			0003		
	X Prepare As-built Documentation	54325N	X			0003		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	643275	X			0003		
	X CPCI Listings As-built	643276	X			0003		
	X Prepare Programmer's Manual (Final)	643277	X			0003		
	X Prepare Inputs to Training Manuals	643278	X			0003		
	X Prepare As-built Part II Specs.	643279	X			0003		

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LINE NO.	1	2	3	4	5	6	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
							BEXSUP								
			X				CPCI: Exploitation Support - BOC	343214	X				0003		
				X			Prelim. Design	44321□	X				0003		
					X		Prepare Prelim. Design Specs.	54321□	X				0003		
						X	Requirements Analysis & Allocation	643280	X				0003		
						X	Prepare Prelim. Design Part I Specs. and Conduct Internal Design Reviews	643281	X				0003		
						X	Prepare Data Dictionary	643282	X				0003		
						X	Prepare Prelim. Part II Specs.	643284	X				0003		
						X	Prepare CPCI Test Plan (Prelim.) Appendix for BEXSUP	643285			X		0003		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Critical Design	44322□	X			0003		
	X Prepare Build-to Design Specs.	54322□	X			0003		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	643286	X			0003		
	X Prepare Prelim. Programmer's Manual	643287	X			0003		
	X Prepare CPCI Test Plan (Final) Appendix for BEXSUP	643288			X	0003		
	X Development	44323□	X			0003		
	X Develop CPC's	54323□	X			0003		
	X Code & Unit Test	643289		X		0003		
	X Integr. & Test to CPC Level	643290			X	0003		

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	X Test	44324□			X	0003		
	X Test	54324□			X	0003		
	X Test at the CPC and CPCI Levels	643291			X	0003		
	X Develop SW Test Procedures	643292			X	0003		
	X Support Test & Verification	643293			X	0003		
	X Prepare Test Reports	643294			X	0003		

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	X Documentation	44325□	X			0003		
	X Prepare As-built Documentation	54325□	X			0003		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	643295	X			0003		
	X CPCI Listings As-built	643296	X			0003		
	X Prepare Programmer's Manual (Final)	643298	X			0003		
	X Prepare Inputs to Training Manuals	643299	X			0003		
	X Prepare As-built Part II Specs.	643300	X			0003		

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		X					Software Development (IOC)	244000	X				0004		
			X				Software Development Management	344100	X				0004		
				X			Software Development Management	444100	X				0004		
					X		Manage All SW Devel. Activities	544100	X				0004		
						X	Manage All SW Devel. Activities	644001	X				0004		
					X		Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	544101	X				0004		
						X	Software Engineering	644005	X				0004		
					X		Software Architecture	544102	X				0004		
						X	Tech. Support to Subcontract Mgm't. Software Trade Studies	644006	X				0004		

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		X	COBOL Code Conversion	644007	X			0004	
		X	Software Control	644008	X			0004	
	X		Library Control	544103	X			0004	
		X	Software Builds & Releases	644009	X			0004	
	X		Provide Inputs to Segment Devel. Plan	544104	X			0004	
		X	Provide Inputs to Segment Devel. Plan	644010	X			0004	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Data Base Implementation (IOC)	544105	X			0004		
	X Data Base Conversion Design, Implementation, Verification	644012	X			0004		
	X Data Base Package	644013	X			0004		
	X Data Base Support to Development and Test & Verification	644014	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS (1 2 3 4 5 6)	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BEPPRE							
	X CPCI: Pre-Exploitation - IOC	344200	X			0004		
	X Critical Design	44422A	X			0004		
	X Prepare Build-to Design Specs.	54422A	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644015	X			0004	BEPPRE CPCI costs were erroneously budgeted in the BEPPRE WBS's for BOC, page 29.	
	X Prepare Prelim. Programmer's Manual	644016	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BEPPRE	644017			X	0004		
	X Development	44423A	X			0004		
	X Develop CPC's	54423A	X			0004		
	X Code & Unit Test	644018		X		0004		
	X Integr. & Test to CPC Level	644019			X	0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6		WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
		X	Test			X	0004		
		X	Test			X	0004		
		X	Test at the CPC & CPCI Levels			X	0004		
		X	Develop SW Test Procedures			X	0004		
		X	Support Test & Verification			X	0004		
		X	Prepare Test Reports			X	0004		

BEPPRE CPCI costs were erroneously budgeted in the BEPPRE WBS's for BOC, page 30.

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Documentation	44425A	X			0004	BEPPRE CPCI costs were erroneously budgeted in the BEPPRE WBS's for BOC, page 31.	
	X Prepare As-built Documentation	54425A	X			0004		
	X CPCI Listings As-built	644025	X			0004		
	X Prepare Programmer's Manual (Final)	644026	X			0004		
	X Prepare As-built Part II Specs.	644028	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BEMGMT							
	X CPCI: Exploitation Management - IOC	344201	X			0004		
	X Critical Design	44422B	X			0004		
	X Prepare Build-to Design Specs.	54422B	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644029	X			0004		
	X Prepare Prelim. Programmer's Manual	644030	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BEMGMT	644031			X	0004		
	X Development	44423B	X			0004		
	X Develop CPC's	54423B	X			0004		
	X Code & Unit Test	644032		X		0004		
	X Integr. & Test to CPC Level	644033			X	0004		

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	X Test	44424B			X	0004		
	X Test	54424B			X	0004		
	X Test at the CPC & CPCI Levels	644034			X	0004		
	X Develop SW Test Procedures	644035			X	0004		
	X Support Test & Verification	644036			X	0004		
	X Prepare Test Reports	644037			X	0004		

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	X Documentation	44425B	X			0004		
	X Prepare As-built Documentation	54425B	X			0004		
	X CPCI Listings As-built	644039	X			0004		
	X Prepare Programmer's Manual (Final)	644040	X			0004		
	X Prepare Inputs to Training Manuals	644041	X			0004		
	X Prepare As-built Part II Specs.	644042	X			0004		

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	BERESU							
	X CPCI: Exploitation Results - IOC	344202	X			0004		
	X Critical Design	44422C	X			0004		
	X Prepare Build-to Design Specs.	54422C	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644043	X			0004		
	X Prepare Prelim. Programmer's Manual	644044	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BERESU	644045			X	0004		
	X Development	44423C	X			0004		
	X Develop CPC's	54423C	X			0004		
	X Code & Unit Test	644046		X		0004		
	X Integr. & Test to CPC Level	644047			X	0004		

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				X			Test	44424C	X				0004		
					X		Test	54424C	X				0004		
						X	Test at the CPC & CPCI Levels	644048	X				0004		
						X	Develop SW Test Procedures	644049	X				0004		
						X	Support Test & Verification	644050	X				0004		
						X	Prepare Test Reports	644051	X				0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Documentation	44425C	X			0004		

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	BMANIP							
	X CPCI: Data Manipulation - IOC	344203	X			0004		
	X Critical Design	44422D	X			0004		
	X Prepare Build-to Design Specs.	54422D	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644057	X			0004		
	X Prepare Prelim. Programmer's Manual	644058	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BMANIP	644059			X	0004		
	X Development	44423D	X			0004		
	X Develop CPC's	54423D	X			0004		
	X Code & Unit Test	644060		X		0004		
	X Integr. & Test to CPC Level	644061			X	0004		

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	X Test	44424D			X	0004		
	X Test	54424D			X	0004		
	X Test at the CPC & CPCI Levels	644062			X	0004		
	X Develop SW Test Procedures	644063			X	0004		
	X Support Test & Verification	644064			X	0004		
	X Prepare Test Reports	644065			X	0004		

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	X Documentation	44425D	X			0004		
	X Prepare As-built Documentation	54425D	X			0004		
	X Prepare Inputs to User, Operator and Data Base Admin. Manuals	644066	X			0004		
	X CPCI Listings As-built	644067	X			0004		
	X Prepare Programmer's Manual (Final)	644068	X			0004		
	X Prepare Inputs to Training Manuals	644069	X			0004		
	X Prepare As-built Part II Specs.	644070	X			0004		

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	BSTATR							
	X CPCI: Statistics Reporting - IOC	344204	X			0004		
	X Critical Design	44422E	X			0004		
	X Prepare Build-to Design Specs.	54422E	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644071	X			0004		
	X Prepare Prelim. Programmer's Manual	644072	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BSTATR	644073			X	0004		
	X Development	44423E	X			0004		
	X Develop CPC's	54423E	X			0004		
	X Code & Unit Test	644074		X		0004		
	X Integr. & Test to CPC Level	644075			X	0004		

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	X Test	44424E			X	0004		
	X Test	54424E			X	0004		
	X Test at the CPC & CPCI Levels	644076			X	0004		
	X Develop SW Test Procedures	644077			X	0004		
	X Support Test & Verification	644078			X	0004		
	X Prepare Test Reports	644079			X	0004		

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	X Documentation	44425E	X			0004		
	X Prepare As-built Documentation	54425E	X			0004		
	X CPCI Listings As-built	644082	X			0004		
	X Prepare Programmer's Manual (Final)	644083	X			0004		
	X Prepare As-built Part II Specs.	644085	X			0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS (1 2 3 4 5 6)	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	BMMGMT							
	X CPCI: Materials Management - IOC	344206	X			0004		
	X Critical Design	44422G	X			0004		
	X Prepare Build-to Design Specs.	54422G	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644100	X			0004		
	X Prepare Prelim. Programmer's Manual	644101	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BMMGMT	644102			X	0004		
	X Development	44423G	X			0004		
	X Develop CPC's	54423G	X			0004		
	X Code & Unit Test	644103		X		0004		
	X Integr. & Test to CPC Level	644104			X	0004		

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	X Test	44424G			X	0004		
	X Test	54424G			X	0004		
	X Test at the CPC & CPCI Levels	644105			X	0004		
	X Develop SW Test Procedures	644106			X	0004		
	X Support Test & Verification	644107			X	0004		
	X Prepare Test Reports	644108			X	0004		

These test costs were erroneously budgeted in WBS #54423G, Develop CPC's, page 98.

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	X Documentation	44425G	X			0004		
	X Prepare As-built Documentation	54425G	X			0004		
	X CPCI Listings As-built	644110	X			0004		

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	BCCNTR							
	X CPCI: Command & Control - IOC	344207	X			0004		
	X Critical Design	44422H	X			0004		
	X Prepare Build-to Design Specs.	54422H	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644114	X			0004		
	X Prepare Prelim. Programmer's Manual	644115	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BCCNTR	644116			X	0004		
	X Development	44423H	X			0004		
	X Develop CPC's	54423H	X			0004		
	X Code & Unit Test	644117		X		0004		
	X Integr. & Test to CPC Level	644118			X	0004		

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		X	Test	44424H			X	0004	
		X	Test	54424H			X	0004	
		X	Test at the CPC & CPCI Levels	644119			X	0004	
		X	Develop SW Test Procedures	644120			X	0004	
		X	Support Test & Verification	644121			X	0004	
		X	Prepare Test Reports	644122			X	0004	

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	X Documentation	44425H	X			0004		
	X Prepare As-built Documentation	54425H	X			0004		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	644123	X			0004		
	X CPCI Listings As-built	644124	X			0004		
	X Prepare Inputs to Training Manuals	644126	X			0004		
	X Prepare As-built Part II Specs.	644127	X			0004		

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	BQUERY							
	X CPCI: Query - IOC	344208	X			0004		
	X Critical Design	44422I	X			0004		
	X Prepare Build-to Design Specs.	54422I	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644128	X			0004		
	X Prepare Prelim. Programmer's Manual	644129	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BQUERY	644130			X	0004		
	X Development	44423I	X			0004		
	X Develop CPC's	54423I	X			0004		
	X Code & Unit Test	644131		X		0004		
	X Integr. & Test to CPC Level	644132			X	0004		

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		X	Test			X	0004		
		X	Test			X	0004		
		X	Test at the CPC & CPCI Levels			X	0004		
		X	Develop SW Test Procedures			X	0004		
		X	Support Test & Verification			X	0004		
		X	Prepare Test Reports			X	0004		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Documentation	44425I	X			0004		
	X Prepare As-built Documentation	54425I	X			0004		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	644137	X			0004		
	X CPCI Listings As-built	644138	X			0004		
	X Prepare Programmer's Manual (Final)	644139	X			0004		
	X Prepare Inputs to Training Manuals	644140	X			0004		
	X Prepare As-built Part II Specs.	644141	X			0004		

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	BAPPLS							
	X CPCI: Applications Support - IOC	344209	X			0004		
	X Critical Design	44422J	X			0004		
	X Prepare Build-to Design Specs.	54422J	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644142	X			0004		
	X Prepare Prelim. Programmer's Manual	644143	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BAPPLS	644144			X	0004		
	X Development	44423J	X			0004		
	X Develop CPC's	54423J	X			0004		
	X Code & Unit Test	644145		X		0004		
	X Integr. & Test to CPC Level	644146			X	0004		

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	X Test	44424J			X	0004		
	X Test	54424J			X	0004		
	X Test at the CPC & CPCI Levels	644147			X	0004		
	X Develop SW Test Procedures	644148			X	0004		
	X Support Test & Verification	644149			X	0004		
	X Prepare Test Reports	644150			X	0004		

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	X Documentation	44425J	X			0004		
	X Prepare As-built Documentation	54425J	X			0004		
	X CPCI Listings As-built	644152	X			0004		
	X Prepare Programmer's Manual (Final)	644153	X			0004		
	X Prepare Inputs to Training Manuals	644154	X			0004		
	X Prepare As-built Part II Specs.	644155	X			0004		

These documentation costs were erroneously budgeted in WBS #54423J, Develop CPC's, page 107.

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	BDMAPS							
	X CPCI: DBM Application Support - IOC	344210	X			0004		
	X Critical Design	44422K	X			0004		
	X Prepare Build-to Design Specs.	54422K	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644156	X			0004		
	X Prepare Prelim. Programmer's Manual	644157	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BDMAPS	644158			X	0004		
	X Development	44423K	X			0004		
	X Develop CPC's	54423K	X			0004		
	X Code & Unit Test	644159		X		0004		
	X Integr. & Test to CPC Level	644160			X	0004		

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				X			Test	44424K			X		0004		
					X		Test	54424K			X		0004		
						X	Test at the CPC & CPCI Levels	644161			X		0004		
						X	Develop SW Test Procedures	644162			X		0004		
						X	Support Test & Verification	644163			X		0004		
						X	Prepare Test Reports	644164			X		0004		

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	X Documentation	44425K	X			0004		
	X Prepare As-built Documentation	54425K	X			0004		
	X CPCI Listings As-built	644166	X			0004		
	X Prepare Programmer's Manual (Final)	644167	X			0004		
	X Prepare Inputs to Training Manuals	644168	X			0004		
	X Prepare As-built Part II Specs.	644169	X			0004		

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	BTTDEV							
	X CPCI: Test & Training - IOC	344211	X			0004		
	X Critical Design	44422L	X			0004		
	X Prepare Build-to Design Specs.	54422L	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644170	X			0004		
	X Prepare Prelim. Programmer's Manual	644171	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BTTDEV	644172			X	0004		
	X Development	44423L	X			0004		
	X Develop CPC's	54423L	X			0004		
	X Code & Unit Test	644173		X		0004		
	X Integr. & Test to CPC Level	644174			X	0004		

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				X			Test	44424L			X	0004		
					X		Test	54424L			X	0004		
						X	Test at the CPC & CPCI Levels	644175			X	0004		
						X	Develop SW Test Procedures	644176			X	0004		
						X	Support Test & Verification	644177			X	0004		
						X	Prepare Test Reports	644178			X	0004		

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	X Documentation	44425L	X			0004		
	X Prepare As-built Documentation	54425L	X			0004		
	X Prepare Inputs to User, Operator and Data Base Admin. Manuals	644179	X			0004		
	X CPCI Listings As-built	644180	X			0004		
	X Prepare Programmer's Manual (Final)	644181	X			0004		
	X Prepare Inputs to Training Manuals	644182	X			0004		
	X Prepare As-built Part II Specs.	644183	X			0004		

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	WAPPLS							
	X CPCI: Work Station Applications - IOC	344212	X			0004		
	X Critical Design	44422M	X			0004		
	X Prepare Build-to Design Specs.	54422M	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644184	X			0004		
	X Prepare Prelim. Programmer's Manual	644185	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for WAPPLS	644186			X	0004		
	X Development	44423M	X			0004		
	X Develop CPC's	54423M	X			0004		
	X Code & Unit Test	644187		X		0004		
	X Integr. & Test to CPC Level	644188			X	0004		

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				X			Test	44424M			X	0004		
					X		Test	54424M			X	0004		
						X	Test at the CPC & CPCI Levels	644189			X	0004		
						X	Develop SW Test Procedures	644190			X	0004		
						X	Support Test & Verification	644191			X	0004		
						X	Prepare Test Reports	644192			X	0004		

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	X Documentation	44425M	X			0004		
	X Prepare As-built Documentation	54425M	X			0004		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	644193	X			0004		
	X CPCI Listings As-built	644194	X			0004		
	X Prepare Programmer's Manual (Final)	644195	X			0004		
	X Prepare Inputs to Training Manuals	644196	X			0004		
	X Prepare As-built Part II Specs.	644197	X			0004		

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	BEXSUP							
	X CPCI: Exploitation Support - IOC	344213	X			0004		
	X Critical Design	44422N	X			0004		
	X Prepare Build-to Design Specs.	54422N	X			0004		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	644198	X			0004		
	X Prepare Prelim. Programmer's Manual	644199	X			0004		
	X Prepare CPCI Test Plan (Final) Appendix for BEXSUP	644200			X	0004		
	X Development	44423N	X			0004		
	X Develop CPC's	54423N	X			0004		
	X Code & Unit Test	644201		X		0004		
	X Integr. & Test to CPC Level	644202			X	0004		

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	X Test	44424N			X	0004		
	X Test	54424N			X	0004		
	X Test at the CPC & CPCI Levels	644203			X	0004		
	X Develop SW Test Procedures	644204			X	0004		
	X Support Test & Verification	644205			X	0004		
	X Prepare Test Reports	644206			X	0004		

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	X Documentation	44425N	X			0004		
	X Prepare As-built Documentation	54425N	X			0004		
	X CPCI Listings As-built	644208	X			0004		
	X Prepare Programmer's Manual (Final)	644209	X			0004		
	X Prepare Inputs to Training Manuals	644210	X			0004		
	X Prepare As-built Part II Specs.	644211	X			0004		

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		X					Software Development (FOC)	245000	X			0005		
			X				Software Development Management	345100	X			0005		
				X			Software Development Management	445100	X			0005		
					X		Manage All SW Devel. Activities	545100	X			0005		
						X	Manage All SW Devel. Activities	645001	X			0005		
					X		Provide & Enforce Program Design, Coding & Test Practices, Standards & Conventions	545101	X			0005	Reserved	
					X		Software Architecture	545102	X			0005		
						X	Software Engineering	645004	X			0005		
						X	Tech. Support to Subcontract Mgm't.	645005	X			0005	Reserved	

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		X	Software Control	645008	X			0005	
	X		Library Control	545103	X			0005	
		X	Software Builds & Releases	645009	X			0005	
	X		Provide Inputs to Segment Devel. Plan	545104	X			0005	Reserved
		X	Provide Inputs to Segment Devel. Plan	645010	X			0005	Reserved

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	X Data Base Implementation (FOC)	545105	X			0005	Reserved	
	X Data Base Package	645013	X			0005	Reserved	
	X Data Base Support to Development and Test & Verification	645014	X			0005	Reserved	

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	BMMGMT							
	X CPCI: Materials Management - FOC	345200	X			0005		
	X Critical Design	44522A	X			0005		
	X Prepare Build-to Design Specs.	54522A	X			0005		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645015	X			0005		
	X Prepare Prelim. Programmer's Manual	645016	X			0005		
	X Prepare CPCI Test Plan (Final) Appendix for BMMGMT	645017			X	0005		
	X Development	44523A	X			0005		
	X Develop CPC's	54523A	X			0005		
	X Code & Unit Test	645018		X		0005		
	X Integr. & Test to CPC Level	645019			X	0005		

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	X Test	44524A			X	0005		
	X Test	54524A			X	0005		
	X Test at the CPC & CPCI Levels	645020			X	0005		
	X Develop SW Test Procedures	645021			X	0005		
	X Support Test & Verification	645022			X	0005		
	X Prepare Test Reports	645023			X	0005		

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	X Documentation	44525A	X			0005		
	X Prepare As-built Documentation	54525A	X			0005		
	X Prepare Inputs to User, Operator and Data Base Administration Manuals	645024	X			0005		
	X CPCI Listings As-built	645025	X			0005		
	X Prepare Programmer's Manual (Final)	645026	X			0005		
	X Prepare Inputs to Training Manuals	645027	X			0005		
	X Prepare As-built Part II Specs.	645028	X			0005		

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	BCCNTR							
	X CPCI: Command & Control - FOC	345201	X			0005		
	X Critical Design	44522B	X			0005		
	X Prepare Build-to Design Specs.	54522B	X			0005		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645029	X			0005		
	X Prepare Prelim. Programmer's Manual	645030	X			0005		
	X Prepare CPCI Test Plan (Final) Appendix for BCCNTR	645031			X	0005		
	X Development	44523B	X			0005		
	X Develop CPC's	54523B	X			0005		
	X Code & Unit Test	645032		X		0005		
	X Integr. & Test to CPC Level	645033			X	0005		

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	X Test	44524B			X	0005		
	X Test	54524B			X	0005		
	X Test at the CPC & CPCI Levels	645034			X	0005		
	X Develop SW Test Procedures	645035			X	0005		
	X Support Test & Verification	645036			X	0005		
	X Prepare Test Reports	645037			X	0005		

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	X Documentation	44525B	X			0005		
	X Prepare As-built Documentation	54525B	X			0005		
	X CPCI Listings As-built	645039	X			0005		
	X Prepare Programmer's Manual (Final)	645040	X			0005		
	X Prepare As-built Part II Specs.	645042	X			0005		

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	BTTDEV							
	X CPCI: Test & Training - FOC	345202	X			0005		
	X Critical Design	44522C	X			0005		
	X Prepare Build-to Design Specs.	54522C	X			0005		
	X Prepare Build-to Part II Specs. and Conduct Internal Design Reviews	645043	X			0005		
	X Prepare Prelim. Programmer's Manual	645044	X			0005		
	X Prepare CPCI Test Plan (Final) Appendix for BTTDEV	645045			X	0005		
	X Development	44523C	X			0005		
	X Develop CPC's	54523C	X			0005		
	X Code & Unit Test	645046		X		0005		
	X Integr. & Test to CPC Level	645047			X	0005		

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	X Test	44524C			X	0005		
	X Test	54524C			X	0005		
	X Test at the CPC & CPCI Levels	645048			X	0005		
	X Develop SW Test Procedures	645049			X	0005		
	X Support Test & Verification	645050			X	0005		
	X Prepare Test Reports	645051			X	0005		

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	X Documentation	44525C	X			0005		
	X Prepare As-built Documentation	54525C	X			0005		
	X Prepare Inputs to User, Operator and Data Base Admin. Manuals	645052	X			0005		
	X CPCI Listings As-built	645053	X			0005		
	X Prepare Programmers Manual, Final	645054	X			0005		
	X Prepare Inputs to Training Manuals	645055	X			0005		
	X Prepare As-built Part II Specs.	645056	X			0005		

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		X					Hardware Development (BOC)	246000	X				0006		
			X				Hardware Development Management BOC	346100	X				0006		
				X			Hardware Development Management BOC	446100	X				0006		
					X		Manage All Hardware Development	546100	X				0006		
						X	Manage All Hardware Development	646100	X				0006		
					X		Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	546101	X				0006	Reserved	
					X		Provide Inputs to Segment Devel. Plan	546102	X				0006	Reserved	

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			X				CI: Basic IWS (BOC)	346200	X				0006		
				X			Prelim. Design	446210	X				0006		
					X		Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546210	X				0006	No Labor	
						X	Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646200	X				0006		
					X		Prepare CI Specifications and Conduct Internal Design Reviews	546211	X				0006	Reserved	

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	X Accomplish Prelim. Design of Commercial Product Modifications	546212	X			0006	Reserved	
	X Critical Design	446220	X			0006		
	X Accomplish Detailed Design of CI	546220	X			0006	No Labor	
	X Accomplish Detailed Design of CI	646203	X			0006		
	X Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546221	X			0006	No Labor	
	X Accomplish Critical Design of Commercial Product Modifications	546223	X			0006	Reserved	

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	X Development	446230	X			0006		
	X Accomplish Fab. of All Manufactured HW	546230		X		0006	No Labor	
	X Accomplish Fab. of All Manufactured HW	646206		X		0006		
	X Accomplish Modif. of Commercial Products	546231		X		0006	Reserved	
	X Prepare As-built Component Specs.	546232	X			0006	Reserved	

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	X Test	446240			X	0006		
	X Prepare Hardware Test & TEMPEST Test Procedures	546240			X	0006	No Labor	
	X Prepare Hardware Test & TEMPEST Test Procedures	646212			X	0006		

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	X Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	546241			X	0006	Reserved	
	X Support Test and Verification	546242			X	0006	Reserved	
	X Documentation	446250	X			0006		
	X Prepare Equipment Operation and Maintenance Manuals	546250	X			0006		
	X Prepare Equipment Operation and Maintenance Manuals	646253	X			0006		
	X Prepare Inputs to Segment/System Operations and User Manuals	546251	X			0006	Reserved	
	X Prepare Inputs to Training Manuals	546252	X			0006	Reserved	

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	X CI: Enhanced IWS (BOC)	346201	X			0006		
	X Prelim. Design	446211	X			0006		
	X Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546213	X			0006		
	X Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	646217	X			0006		
	X Prepare CI Specifications and Conduct Internal Design Reviews	546214	X			0006		
	X Prepare CI Specifications and Conduct Internal Design Reviews	646218	X			0006		

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	X Accomplish Prelim. Design of Commercial Product Modifications	546215	X			0006	Reserved	
	X Critical Design	446221	X			0006		
	X Accomplish Detailed Design of CI	546224	X			0006	Reserved	
	X Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546225	X			0006		
	X Prepare Build-to Component Specs. and Conduct Internal Design Reviews	646221	X			0006		
	X Accomplish Critical Design of Commercial Product Modifications	546226	X			0006	Reserved	

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	X Development	446231	X			0006	Reserved	
	X Accomplish Fab. of All Manufactured HW	546232		X		0006	Reserved	
	X Accomplish Modif. of Commercial Products	546233		X		0006	Reserved	
	X Prepare As-built Component Specs.	546234	X			0006	Reserved	

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	X Test	446241			X	0006		
	X Prepare Hardware Test & TEMPEST Test Procedures	546243			X	0006	Reserved	

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					X		Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	546244			X	0006	Reserved	
					X		Support Test and Verification	546245			X	0006		
						X	Support Test and Verification	646231			X	0006		
				X			Documentation	446251	X			0006		
					X		Prepare Equipment Operation and Maintenance Manuals	546253	X			0006		
						X	Prepare Equipment Operation and Maintenance Manuals	646232	X			0006		
					X		Prepare Inputs to Segment/System Operations and User Manuals	546254	X			0006		
						X	Prepare Inputs to Segment/System Operations and User Manuals	646233	X			0006		
					X		Prepare Inputs to Training Manuals	546255	X			0006		
						X	Prepare Inputs to Training Manuals	646234	X			0006		

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	X CI: Full Capability (BOC)	346202	X			0006		
	X Prelim. Design	446212	X			0006	Reserved	
	X Accomplish Prelim. CI Design and Reqmts. Analysis and Allocation	546216	X			0006	Reserved	
	X Prepare CI Specifications and Conduct Internal Design Reviews	546217	X			0006	Reserved	

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	X Accomplish Prelim. Design of Commercial Product Modifications	546218	X			0006	Reserved	
	X Critical Design	446222	X			0006	Reserved	
	X Accomplish Detailed Design of CI	546227	X			0006	Reserved	
	X Prepare Build-to Component Specs. and Conduct Internal Design Reviews	546228	X			0006	Reserved	
	X Accomplish Critical Design of Commercial Product Modifications	546229	X			0006	Reserved	

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	X Development	446232	X			0006	Reserved	
	X Accomplish Fab. of All Manufactured HW	546236		X		0006	Reserved	
	X Accomplish Mod. of Commercial Products	546237		X		0006	Reserved	
	X Prepare As-built Component Specs.	546238	X			0006	Reserved	

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	X Test	446242			X	0006	Reserved	
	X Prepare Hardware Test & TEMPEST Test Procedures	546246			X	0006	Reserved	

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					X		Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	546247			X	0006	Reserved	
					X		Support Test and Verification	546248			X	0006	Reserved	
				X			Documentation	446252	X			0006		
					X		Prepare Equipment Operation and Maintenance Manuals	546256	X			0006		
					X		Prepare Inputs to Segment/System Operations and User Manuals	546257	X			0006	Reserved	
					X		Prepare Inputs to Training Manuals	546258	X			0006	Reserved	
						X	Prepare Equipment Operation and Maintenance Manuals	646250	X			0006		

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	X Hardware Development (IOC)	247000	X			0007		
	X Hardware Development Management	347100	X			0007		
	X Hardware Development Management	447100	X			0007		
	X Manage All Hardware Development	547100	X			0007		
	X Manage All Hardware Development	647100	X			0007		
	X Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	547101	X			0007	Reserved	
	X Provide Inputs to Segment Devel. Plan	547102	X			0007	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS (1 2 3 4 5 6)	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X CI: Basic IWS (IOC)	347200	X			0007		
	X Critical Design	447220	X			0007	Reserved	
	X Accomplish Detailed Design of CI	547220	X			0007	Reserved	
	X Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547221	X			0007	Reserved	
	X Accomplish Critical Design of Commercial Product Modifications	547222	X			0007	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Development	447230	X			0007	Reserved	
	X Accomplish Fab. of All Manufactured HW	547230		X		0007	Reserved	
	X Accomplish Modif. of Commercial Products	547231		X		0007	Reserved	
	X Prepare As-built Component Specs.	547232	X			0007	Reserved	

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	X Test	447240			X	0007	Reserved	
	X Prepare Hardware Test & TEMPEST Test Procedures	547240			X	0007	Reserved	

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	X Test All HW at Component and CI Levels Prior to Intergration (incl. TEMPEST)	547241			X	0007	Reserved	
	X Support Test and Verification	547242			X	0007	Reserved	
	X Documentation	447250	X			0007		
	X Prepare Equipment Operation and Maintenance Manuals	547250	X			0007		
	X Prepare Inputs to Segment/System Operations and User Manuals	547251	X			0007	Reserved	
	X Prepare Inputs to Training Manuals	547252	X			0007	Reserved	
	X Prepare Equipment Operations and Maintenance Manuals	647212	X			0007		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X CI: Enhanced IWS - IOC	347201	X			0007		
	X Critical Design	447221	X			0007	Reserved	
	X Accomplish Detailed Design of CI	547223	X			0007	Reserved	
	X Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547224	X			0007	Reserved	
	X Accomplish Critical Design of Commercial Product Modifications	547225	X			0007	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Development	447231	X			0007		
	X Accomplish Fab. of All Manufactured HW	547233		X		0007	Reserved	
	X Accomplish Modif. of Commercial Products	547234		X		0007	Reserved	
	X Prepare As-built Component Specs.	547235	X			0007	No Labor	
	X Prepare Mfg. Drawing Packages	647222	X			0007		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Test	447241			X	0007		
	X Prepare Hardware Test & TEMPEST Test Procedures	547243			X	0007	Reserved	

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	X Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	547244			X	0007	Reserved	
	X Support Test and Verification	547245			X	0007		
	X Support Test and Verification	647226			X	0007		
	X Documentation	447251		X		0007		
	X Prepare Equipment Operation and Maintenance Manuals	547253		X		0007		
	X Prepare Inputs to Segment/System Operations and User Manuals	547254		X		0007	Reserved	
	X Prepare Inputs to Training Manuals	547255		X		0007	Reserved	
	X Prepare Equipment Operations and Maintenance Manuals	647227		X		0007		

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LINE NO.	1	2	3	4	5	6	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X				CI: Full Capability IWS - IOC	347202	X				0007		
				X			Critical Design	447222	X				0007	No Labor	
					X		Accomplish Detailed Design of CI	547226	X				0007		
						X	Accomplish Detailed Design of CI	647230	X				0007		
					X		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	547227	X				0007	No Labor	
						X	Prepare Build-to Component Specs. and Conduct Internal Design Reviews	647231	X				0007		
					X		Accomplish Critical Design of Commercial Product Modifications	547228	X				0007	No Labor	
						X	Accomplish Critical Design of Commercial Product Modifications	647232	X				0007		

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Development	447232	X			0007	Reserved	
	X Accomplish Fab. of All Manufactured HW	547236		X		0007	Reserved	
	X Accomplish Modif. of Commercial Products	547237		X		0007	Reserved	
	X Prepare As-built Component Specs.	547238	X			0007	Reserved	

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LINE NO.	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS 1 2 3 4 5 6	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
	X Test	447242			X	0007	Reserved	
	X Prepare Hardware Test & TEMPEST Test Procedures	547246			X	0007	Reserved	

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	X Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	547247			X	0007	Reserved	
	X Support Test and Verification	547248			X	0007	Reserved	
	X Documentation	447252	X			0007		
	X Prepare Equipment Operation and Maintenance Manuals	547256	X			0007		
	X Prepare Equipment Operation and Maintenance Manuals	647242	X			0007		
	X Prepare Inputs to Segment/System Operations and User Manuals	547257	X			0007	Reserved	
	X Prepare Inputs to Training Manuals	547258	X			0007	Reserved	

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	X Hardware Development (FOC)	248000	X			0008		
	X Hardware Development Management	348100	X			0008		
	X Hardware Development Management	448100	X			0008		
	X Manage All Hardware Development	548100	X			0008		
	X Manage All Hardware Development	648100	X			0008		
	X Set and Maintain HW Design, Fab and Test Practices, Standards & Conventions	648101	X			0008	Reserved	
	X Provide Inputs to Segment Devel. Plan	548102	X			0008	Reserved	

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LINE NO.	1	2	3	4	5	6	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X				CI: Basic IWS - FOC	348200	X			0008		
				X			Critical Design	448220	X			0008	Reserved	
					X		Accomplish Detailed Design of CI	548220	X			0008	Reserved	
					X		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548221	X			0008	Reserved	
					X		Accomplish Critical Design of Commercial Product Modifications	548222	X			0008	Reserved	

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	X Development	448230	X			0008	Reserved	
	X Accomplish Fab. of All Manufactured HW	548230		X		0008	Reserved	
	X Accomplish Modif. of Commercial Products	548231		X		0008	Reserved	
	X Prepare As-built Component Specs.	548232	X			0008	Reserved	

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	X Test	448240			X	0008	Reserved	
	X Prepare Hardware Test & TEMPEST Test Procedures	548240			X	0008	Reserved	

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LINE NO.	1	2	3	4	5	6	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST	CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548241			X	0008	Reserved	
					X		Support Test and Verification	548242			X	0008	Reserved	
				X			Documentation	448250	X			0008		
					X		Prepare Equipment Operation and Maintenance Manuals	548250	X			0008		
					X		Prepare Inputs to Segment/System Operations and User Manuals	548251	X			0008	Reserved	
					X		Prepare Inputs to Training Manuals	548252	X			0008	Reserved	
						X	Prepare Equipment Operations and Maintenance Manuals	648212	X			0008		

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LINE NO.	1	2	3	4	5	6	WORK BREAKDOWN STRUCTURE ELEMENTS/TASKS	WBS CODE NO.	DES/DEV	MANUF	TEST		CONTRACT LINE ITEM	SOW PARA. NO.	SPECIFICATION NUMBER
			X				CI: Enhanced IWS - FOC	348201	X				0008		
				X			Critical Design	448221	X				0008	Reserved	
					X		Accomplish Detailed Design of CI	548223	X				0008	Reserved	
					X		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548224	X				0008	Reserved	
					X		Accomplish Critical Design of Commercial Product Modifications	548225	X				0008	Reserved	

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	X Development	448231	X			0008	Reserved	
	X Accomplish Fab. of All Manufactured HW	548233		X		0008	Reserved	
	X Accomplish Modif. of Commercial Products	548234		X		0008	Reserved	
	X Prepare As-built Component Specs.	548235	X			0008	Reserved	

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	X Test	448241			X	0008	Reserved	
	X Prepare Hardware Test & TEMPEST Test Procedures	548243			X	0008	Reserved	

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					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548244			X	0008	Reserved	
					X		Support Test and Verification	548245			X	0008	Reserved	
				X			Documentation	448251	X			0008		
					X		Prepare Equipment Operation and Maintenance Manuals	548253	X			0008		
					X		Prepare Inputs to Segment/System Operations and User Manuals	548254	X			0008	Reserved	
					X		Prepare Inputs to Training Manuals	548255	X			0008	Reserved	
						X	Prepare Equipment Operations and Maintenance Manuals	648227	X			0008		

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			X				CI: Full Capability IWS - FOC	348202	X			0008		
				X			Critical Design	448222	X			0008		
					X		Accomplish Detailed Design of CI	548226	X			0008	Reserved	
					X		Prepare Build-to Component Specs. and Conduct Internal Design Reviews	548227	X			0008	Reserved	
					X		Accomplish Critical Design of Commercial Product Modifications	548228	X			0008		
						X	Accomplish Critical Design of Commerical Product Modifications	648232	X			0008		

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	X Development	448232	X				0008	Reserved	
	X Accomplish Fab. of All Manufactured HW	548236		X			0008	Reserved	
	X Accomplish Modif. of Commercial Products	548237		X			0008	Reserved	
	X Prepare As-built Component Specs.	548238	X				0008	Reserved	

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	X Test	448242			X	0008	Reserved	
	X Prepare Hardware Test & TEMPEST Test Procedures	548246			X	0008	Reserved	

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					X		Test All HW at Component and CI Levels Prior to Integration (incl. TEMPEST)	548247			X	0008	Reserved	
					X		Support Test and Verification	548248			X	0008	Reserved	
				X			Documentation	448252	X			0008		
					X		Prepare Equipment Operation and Maintenance Manuals	548256	X			0008		
					X		Prepare Inputs to Segment/System Operations and User Manuals	548257	X			0008	Reserved	
					X		Prepare Inputs to Training Manuals	548258	X			0008	Reserved	
						X	Prepare Equipment Operations and Maintenance Manuals	648242	X			0008		

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	X Automated Data Processing Equipment (ADPE) Hardware and Software	249000	X			0009		
	X Procurement	349100	X			0009		
	X Management	449100	X			0009		
	X Management	549100	X			0009		
	X Manage All ADPE Procurement Activities - BOC	649100	X			0009		
	X Manage All ADPE Procurement Activities - IOC	649101	X			0009		
	X Provide & Enforce All Procurement Practices, Standards & Conventions - BOC	649103	X			0009		
	X Provide & Enforce All Procurement Practices, Standards & Conventions - IOC	649104	X			0009		

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	X Procure ADPE (Include Labor Plus the Actual Equipment & Product Costs)	449101	X			0009		
	X Procure Commercial CPCI's	549101	X			0009		
	X Project Labor to Support Procurement - BOC	649106	X			0009		
	X Project Labor to Support Procurement - IOC	649107	X			0009		
	X Project Labor to Support Procurement - FOC	649108	X			0009	Reserved	
	X Procurement - BOC	649109	X			0009		
	X Procurement - IOC	649110	X			0009		
	X Procure Commercial CI's	549102	X			0009		
	X Project Labor to Support Procurement - BOC	649112	X			0009		
	X Project Labor to Support Procurement - IOC	649113	X			0009		

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	X Procure - BOC	649115	X			0009		
	X Procure - IOC	649116	X			0009	Reserved	
	X Test	349200			X	0009		
	X Accomplish Acceptance Testing of Commercial ADPE	449200			X	0009	Reserved	
	X Acceptance Test Commercial CPCI's - BOC	549200			X	0009	Reserved	

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	X Acceptance Test Commercial CI's	549201			X	0009	Reserved	

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			X				GFE	349300	X			0009		
				X			Install & Checkout GFE	449300	X			0009		
					X		Install & Checkout GFE	549300	X			0009	These GFE installation/checkout costs were erroneously budgeted under WBS 549301, this page.	
						X	Install & Checkout GFE - BOC	649300	X			0009		
				X			Provide GFE Maintenance	449301	X			0009		
					X		Provide GFE Maintenance	549301	X			0009		
						X	Provide GFE Maintenance - BOC	649301	X			0009		
						X	Provide GFE Maintenance - FOC	649303	X			0009		

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		X					Test and Verification - BOC	241000			X	0010		
			X				Test & Verification Management	341010	X			0010		
				X			Test & Verification Management	441010	X			0010		
					X		Test & Verification Management	541010	X			0010		
						X	Provide Mgm't. of Segment Test Activities - BOC	641010	X			0010		
						X	Prepare Test Plans - BOC	641011			X	0010		
						X	Prepare Test Procedures - BOC	641012			X	0010		
						X	Prepare Test Plan for GFE Equipment - BOC	641013			X	0010		
			X				Test Support	341020			X	0010		
				X			Test Support	441020			X	0010		
					X		Test Support	541020			X	0010		
						X	Provide Necessary Software to Support Integrated Testing - BOC	641020			X	0010		

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	6 X Provide Necessary Hardware to Support Integrated Testing - BOC	641021			X	0010		
	6 X Provide Necessary Data to Support Integrated Testing - BOC	641022			X	0010		
	3 X Integration Test	341030			X	0010		
	4 X Integration Test	441030			X	0010		
	5 X Integration Test	541030			X	0010		
	6 X Accomplish Inter-CI Testing - BOC	641030			X	0010		
	6 X Accomplish Inter-CPCI Testing - BOC	641031			X	0010		
	6 X Accomplish Integrated CPCI/CI Testing - BOC	641032			X	0010		
	6 X Provide Integration Test Reports - BOC	641033			X	0010		

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	X Factory Preship Test	341040			X	0010		
	X Factory Preship Test	441040			X	0010		
	X Factory Preship Test	541040			X	0010		
	X Perform Formal Preship Test - BOC	641040			X	0010		
	X Provide Preship Test Report - BOC	641041			X	0010		

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	X Test and Verification - IOC	241100			X	0011		
	X Test & Verification Management	341110	X			0011		
	X Test & Verification Management	441110	X			0011		
	X Test & Verification Management	541110	X			0011		
	X Provide Mgm't. of Segment Test Activities - IOC	641110	X			0011		
	X Prepare Test Plans - IOC	641111			X	0011		
	X Prepare Test Procedures - IOC	641112			X	0011		
	X Prepare Test Plan for GFE Equipment - IOC	641113			X	0011	Reserved	
	X Test Support	341120			X	0011		
	X Test Support	441120			X	0011		
	X Test Support	541120			X	0011		
	X Provide Necessary Software to Support Integrated Testing - IOC	641120			X	0011		

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						X	Provide Necessary Hardware to Support Integrated Testing - IOC	641121			X	0011		
						X	Provide Necessary Data to Support Integrated Testing - IOC	641122			X	0011		
			X				Integration Test	341130			X	0011		
				X			Integration Test	441130			X	0011		
					X		Integration Test	541130			X	0011		
						X	Accomplish Inter-CI Testing - IOC	641130			X	0011		
						X	Accomplish Inter-CPCI Testing - IOC	641131			X	0011		
						X	Accomplish Integrated CPCI/CI Testing - IOC	641132			X	0011		
						X	Provide Integration Test Reports - IOC	641133			X	0011		

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	X Factory Preship Test	341140			X	0011		
	X Factory Preship Test	441140			X	0011		
	X Factory Preship Test	541140			X	0011		
	X Perform Formal Preship Test - IOC	641140			X	0011		
	X Provide Preship Test Report - IOC	641141			X	0011		

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		X					Test and Verification - FOC	241200			X	0012		
			X				Test & Verification Management	341210	X			0012		
				X			Test & Verification Management	441210	X			0012		
					X		Test & Verification Management	541210	X			0012		
						X	Provide Mgm't. of Segment Test Activities - FOC	641210	X			0012		
						X	Prepare Test Plans - FOC	641211			X	0012	Reserved	
						X	Prepare Test Procedures - FOC	641212			X	0012	Reserved	
			X				Test Support	341220			X	0012	Reserved	
				X			Test Support	441220			X	0012	Reserved	
					X		Test Support	541220			X	0012	Reserved	
						X	Provide Necessary Software to Support Integrated Testing - FOC	641220			X	0012	Reserved	

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						X	Provide Necessary Hardware to Support Integrated Testing - FOC	641221			X	0012	Reserved	
						X	Provide Necessary Hardware to Support Integrated Testing	641222			X	0012	Reserved	
			X				Integration Test - FOC	341230			X	0012	Reserved	
				X			Integration Test	441230			X	0012	Reserved	
					X		Integration Test	541230			X	0012	Reserved	
						X	Accomplish Inter-CI Testing	641230			X	0012	Reserved	
						X	Accomplish Inter-CPCI Testing	641231			X	0012	Reserved	
						X	Accomplish Integrated CPCI/CI Testing	641232			X	0012	Reserved	
						X	Provide Integration Test Reports	641233			X	0012	Reserved	

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	X Factory Preship Test - FOC	341240			X	0012	Reserved	
	X Factory Preship Test	441240			X	0012	Reserved	
	X Factory Preship Test	541240			X	0012	Reserved	
	X Perform Formal Preship Test	641240			X	0012	Reserved	

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	X Installation, Checkout and Test - BOC	241300			X	0013		
	X Install., Checkout & Test Management	341310	X			0013		
	X Install., Checkout & Test Management	441310	X			0013		
	X Install., Checkout & Test Management	541310	X			0013		
	X Provide Management of Installation and Checkout Activities - BOC	641310	X			0013		
	X Facility Planning - BOC	341320	X			0013		
	X Facility Planning	441320	X			0013		
	X Facility Planning	541320	X			0013		
	X Provide Facility Interface Drawings/Requirements (IDRs) - BOC	641320				0013		
	X Provide Facility Planning - BOC	641321				0013		

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	X Installation & Checkout - BOC	341330	X			0013		
	X Installation & Checkout	441330	X			0013		
	X Installation & Checkout	541330	X			0013		
	X Prepare Segment Shipping Plan	641330	X			0013		
	X Prepare Segment Installation Plan	641331	X			0013		
	X Provide for Shipment, Installation and Checkout of All Segment Items	641332	X			0013		
	X Accomplish Segment Integration and Transition to Operational Status	641333	X			0013		
	X Site Segment Test - BOC	341340		X		0013		
	X Site Segment Test	441340		X		0013		
	X Site Segment Test	541340		X		0013		
	X Perform Formal Site Segment Test	641340		X		0013		

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						X	Provide Site Segment Test Report	641341			X	0013		
			X				Site Inter-Segment Demos	341350	X			0013		
				X			Site Inter-Segment Demos	441350	X			0013		
					X		Site Inter-Segment Demos	541350	X			0013		
						X	Contribute to System Test Plan and Test Report to be Prepared by the SI - BOC	641350			X	0013		
						X	Participate in On-Site System Testing - BOC	641351			X	0013		
			X				Inter-Program Demos	341360	X			0013		
				X			Inter-Program Demos	441360	X			0013		
					X		Inter-Program Demos	541360	X			0013		
						X	Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI - BOC	641360	X			0013		

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	X Support Program Demos - BOC	641361	X			0013		

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	X Installation, Checkout and Test - IOC	241400			X	0014		
	X Install., Checkout & Test Management	341410			X	0014		
	X Install., Checkout & Test Management	441410			X	0014		
	X Install., Checkout & Test Management	541410			X	0014		
	X Provide Management of Installation and Checkout Activities	641410	X			0014		
	X Provide Test Plan	641411			X	0014		
	X Facility Planning - IOC	341420	X			0014		
	X Facility Planning	441420	X			0014		
	X Facility Planning	541420	X			0014		
	X Provide Facility Interface Drawings/Requirements (IDRs)	641420	X			0014		
	X Provide Facility Planning	641421	X			0014		

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			X				Installation & Checkout - IOC	341430	X			0014		
				X			Installation & Checkout	441430	X			0014		
					X		Installation & Checkout	541430	X			0014		
						X	Prepare Segment Shipping Plan	641430	X			0014		
						X	Prepare Segment Installation Plan	641431	X			0014		
						X	Provide for Shipment, Installation and Checkout of All Segment Items	641432	X			0014		
						X	Accomplish Segment Integration and Transition to Operational Status	641433	X			0014		
			X				Site Segment Test - IOC	341440			X	0014		
				X			Site Segment Test	441440			X	0014		
					X		Site Segment Test	541440			X	0014		
						X	Perform Formal Site Segment Test	641440			X	0014		

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						X	Provide Site Segment Test Report	641441			X	0014		
			X				Site Inter-Segment Demos - IOC	341450	X			0014		
				X			Site Inter-Segment Demos	441450	X			0014		
					X		Site Inter-Segment Demos	541450	X			0014		
						X	Contribute to System Test Plan and Test Report to be Prepared by the SI	641450			X	0014		
						X	Participate in On-Site System Testing	641451			X	0014		
			X				Inter-Program Demos - IOC	341460	X			0014		
				X			Inter-Program Demos	441460	X			0014		
					X		Inter-Program Demos	541460	X			0014		
						X	Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI	641460	X			0014		

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	X Support Program Demos	641461	X			0014		

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		X					Installation, Checkout and Test - FOC	241500			X	0015		
			X				Install., Checkout & Test Management	341510	X			0015		
				X			Install., Checkout & Test Management	441510	X			0015		
					X		Install., Checkout & Test Management	541510	X			0015		
						X	Provide Management of Installation and Checkout Activities - FOC	641510			X	0015		
			X				Facility Planning - FOC	341520	X			0015		
				X			Facility Planning	441520	X			0015		
					X		Facility Planning	541520	X			0015	Reserved	
						X	Provide Facility Interface Drawings/Requirements (IDRs)	641520	X			0015	Reserved	
						X	Provide Facility Planning	641521	X			0015	Reserved	

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	X Installation & Checkout - FOC	341530	X			0015		
	X Installation & Checkout	441530	X			0015		
	X Installation & Checkout	541530	X			0015		
	X Prepare Segment Shipping Plan	641530	X			0015		
	X Prepare Segment Installation Plan	641531	X			0015		
	X Provide for Shipment, Installation and Checkout of All Segment Items	641532	X			0015		
	X Accomplish Segment Integration and Transition to Operational Status	641533	X			0015		
	X Site Segment Test - FOC	341540			X	0015		
	X Site Segment Test	441540			X	0015		
	X Site Segment Test	541540			X	0015		
	X Perform Formal Site Segment Test	641540			X	0015		

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	X Provide Site Segment Test Report	641541			X	0015		
	X Site Inter-Segment Demos - FOC	341550	X			0015		
	X Site Inter-Segment Demos	441550	X			0015		
	X Site Inter-Segment Demos	541550	X			0015		
	X Contribute to System Test Plan and Test Report to be Prepared by the SI	641550			X	0015		
	X Participate in On-Site System Testing	641551			X	0015		
	X Inter-Program Demos - FOC	341560	X			0015		
	X Inter-Program Demos	441560	X			0015		
	X Inter-Program Demos	541560	X			0015		
	X Provide Input to Inter-Program Demonstration Plan to be Prepared by the SI	641560	X			0015		

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	X Support Program Demos	641561	X			0015		

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	X Development and Test Facility	241600			X	0016		
	X Devel. & Test Facility Management	341610	X			0016		
	X Devel. & Test Facility Management	441610	X			0016		
	X Devel. & Test Facility Management	541610	X			0016		
	X Provide Mgmnt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - BOC	641610	X			0016		
	X Provide Mgmnt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - IOC	641611	X			0016		
	X Provide Mgmnt., Planning & Control of Facilities Req'd. for Analysis, Human Eng'g., Devel., Test and Integr. of All Segment Software & Hardware - FOC	641612	X			0016	Reserved	
	X Devel. & Test Facility Services	341620			X	0016		
	X Devel. & Test Facility Services	441620			X	0016		
	X Devel. & Test Facility Services	541620			X	0016		
	X Devel. Necessary Software Tools, Library Support, etc. for Devel. & Test Facility - BOC	641620			X	0016		
	X Devel. Necessary Software Tools, Library Spprt., etc. for Devel. & Test Facil-IOC	641621			X	0016		

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	X Develop Necessary Test Tools, etc. for Devel. & Test Facility - BOC	641622	X			0016		
	X Develop Necessary Test Tools, etc. for Devel. & Test Facility - IOC	641623	X			0016		

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	X Equipment	341630	X			0016		
	X Equipment	441630	X			0016		
	X Equipment	541630	X			0016		
	X Provide ADPE Capable of Supporting the Devel. & Test Facility - BOC	641630	X			0016		
	X Provide ADPE Capable of Supporting the Devel. & Test Facility - IOC	641631	X			0016	Reserved	
	X Operations & Maintenance	341640	X			0016		
	X Operations & Maintenance	441640	X			0016		
	X Operations & Maintenance	541640	X			0016		

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	X Operate the Devel. & Test Facility - BOC	641640			X	0016		
	X Operate the Devel. & Test Facility - IOC	641641			X	0016		
	X Maintain the Devel. & Test Facility - BOC	641643			X	0016		
	X Maintain the Devel. & Test Facility - IOC	641644			X	0016		

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	X Subcontractor Devel. & Test Facilities	341650			X	0016		
	X Subcontractor Devel. & Test Facilities	441650			X	0016		
	X Provide Management, Planning and Control of Facilities	541650	X			0016		
	X Provide Management, Planning and Control of Facilities - BOC	641650	X			0016		
	X Provide Management, Planning and Control of Facilities - IOC	641651	X			0016	Reserved	
	X Provide Management, Planning and Control of Facilities - FOC	641652	X			0016	Reserved	
	X Services	541651	X			0016	Reserved	
	X Services - BOC	641653	X			0016	Reserved	
	X Services - IOC	641654	X			0016	Reserved	

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	X Services - FOC	641655	X			0006	Reserved	
	X Equipment	541652	X			0006	Reserved	
	X Equipment - BOC	641656	X			0006	Reserved	
	X Equipment - IOC	641657	X			0006	Reserved	
	X Equipment - FOC	641658	X			0006	Reserved	
	X Operations & Maintenance	541653	X			0006	Reserved	
	X Operate Subcontr. Devel. & Test Facil. - BOC	641659			X	0006	Reserved	
	X Operate Subcontr. Devel. & Test Facil. - IOC	64165A			X	0006	Reserved	
	X Operate Subcontr. Devel. & Test Facil. - FOC	64165B			X	0006	Reserved	
	X Maintain Subcontr. Devel. & Test - BOC	64165C			X	0006	Reserved	
	X Maintain Subcontr. Devel. & Test - IOC	64165D			X	0006	Reserved	
	X Maintain Subcontr. Devel. & Test - FOC	64165E			X	0006	Reserved	

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	X Training	241700	X			0017		
	X Training Management	341710	X			0017		
	X Training Management	441710	X			0017		
	X Training Management	541710	X			0017		
	X Manage All Training Activities - BOC	641710	X			0017		
	X Manage All Training Activities - IOC	641711	X			0017		
	X Manage All Training Activities - FOC	641712	X			0017		
	X Provide Segment Training Plan - BOC	641713	X			0017		
	X Provide Segment Training Plan - IOC	641714	X			0017	Reserved	

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	X User Training	341720	X			0017		
	X User Training	441720	X			0017		
	X User Training	541720	X			0017		
	X Accept Other Segment Inputs and Prepare User Training Materials - BOC	641720	X			0017		
	X Accept Other Segment Inputs and Prepare User Training Materials - IOC	641721	X			0017		
	X Accept Other Segment Inputs and Prepare User Training Materials - FOC	641722	X			0017		
	X Train System Users and Gov't Instructors - BOC	641723	X			0017		
	X Train System Users and Gov't Instructors - IOC	641724	X			0017		
	X Train System Users and Gov't Instructors - FOC	641725	X			0017		

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	X Operator Training	341730	X			0017		
	X Operator Training	441730	X			0017		
	X Operator Training	541730	X			0017		
	X Prepare and Deliver Operator Training Materials - BOC	641730	X			0017		
	X Prepare and Deliver Operator Training Materials - IOC	641731	X			0017		
	X Prepare and Deliver Operator Training Materials - FOC	641732	X			0017		
	X Train Segment and System Operators and Management Personnel - BOC	641733	X			0017		
	X Train Segment and System Operators and Management Personnel - IOC	641734	X			0017		
	X Train Segment and System Operators and Management Personnel - FOC	641735	X			0017		

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	X Maintenance Training	341740	X			0017		
	X Maintenance Training	441740	X			0017		
	X Maintenance Training	541740	X			0017		
	X Prepare and Deliver Maintenance Training Materials - BOC	641740	X			0017		
	X Prepare and Deliver Maintenance Training Materials - IOC	641741	X			0017		
	X Prepare and Deliver Maintenance Training Materials - FOC	641742	X			0017		
	X Train All Segment Maintenance Personnel - BOC	641743	X			0017		
	X Train All Segment Maintenance Personnel - IOC	641744	X			0017		
	X Train All Segment Maintenance Personnel - FOC	641745	X			0017		

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		X					Operations & Maintenace (O&M)	241800	X				0018		
			X				O & M Management	341810	X				0018		
				X			O & M Management	441810	X				0018		
					X		Provide O & M Project Management	541810	X				0018		
						X	Provide O & M Project Management - BOC	641810	X				0018		
						X	Provide O & M Project Management - IOC	641811	X				0018		
						X	Provide O & M Project Management - FOC	641812	X				0018		
					X		Provide O & M Project Control	541811	X				0018		
						X	Provide O & M Project Control - BOC	641813	X				0018		
						X	Provide O & M Project Control - IOC	641814	X				0018		
						X	Provide O & M Project Control - FOC	641815	X				0018	Reserved	
			X				Spares	341820	X				0018		
				X			Spares	441820	X				0018		
					X		Spares	541820	X				0018		
						X	Provide Spares Planning - BOC	641820	X				0018		
						X	Provide Spares Planning - IOC	641821	X				0018		
						X	Provide Spares Planning - FOC	641822	X				0018		

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	X Software Maintenance	341830	X			0018		
	X Software Maintenance	441830	X			0018		
	X System Engineering	541830	X			0018		
	X System Engineering - BOC	641830	X			0018		
	X Software Management	541831	X			0018		
	X Software Management - IOC	641834	X			0018		

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	X Problem Analysis, Error Correction and Update Documentation	541832	X			0018		
	X Problem Analysis, Error Correction and Update Documentation - BOC	641836	X			0018		
	X Problem Analysis, Error Correction and Update Documentation - IOC	641837	X			0018		
	X Problem Analysis, Error Correction and Update Documentation - FOC	641838	X			0018		
	X Test	541833			X	0018	These test charges were erroneously budgeted under WBS 541832.	
	X Test Software Changes - BOC	641839			X	0018		
	X Test Software Changes - IOC	64183A			X	0018		
	X Test Software Changes - FOC	64183B			X	0018		
	X Maintain Commercial Software Products	541834	X			0018	No Labor	
	X Maintain Commercial Software Products - BOC	64183C	X			0018		
	X Maintain Commercial Software Products - IOC	64183D	X			0018		

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						X	Maintain Commercial Software Products - FOC	64183E	X			0018		
			X				Hardware Maintenance	341840	X			0018		
				X			Hardware Maintenance	441840	X			0018		
					X		Problem Analysis, Error Correction and Update Documentation - BOC	541840	X			0018		
						X	Problem Analysis, Error Correction and Update Documentation - IOC	641840	X			0018		
						X	Problem Analysis, Error Correction and Update Documentation - FOC	641841	X			0018		
						X	Problem Analysis, Error Correction and Update Documentation	641842	X			0018		
					X		Maintain Commercial Hardware	541841	X			0018	No Labor	
						X	Maintain Commercial Hardware - BOC	641843	X			0018		
						X	Maintain Commercial Hardware - IOC	641844	X			0018		
						X	Maintain Commercial Hardware - FOC	641845	X			0018		

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	X Travel and Living	341870	X				0018		
	X Travel and Living	441870	X				0018		
	X Travel and Living	541870	X				0018	No Labor	
	X Provide Travel and Living Expenses for O & M Personnel - BOC	641870	X				0018		
	X Provide Travel and Living Expenses for O & M Personnel - IOC	641871	X				0018		

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