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NAVAL SUPPLY SYSTEMS COMMAND

Naval Inventory Control Point

Performance Based Logistics

Ready. Resourceful. Responsive!

Presented to:
UID Program Manager Workshop
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Solutions Division

Agenda

- **Performance Based Logistics**
  - ***PBL Background***
  - ***PBL Program Status***
  - ***PBL Success Stories***
  - ***The IPT***
  - ***FMS Issues***
  - ***Take Aways***

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PBL Background

"A Delicate Balance"

Legacy Support

- ***Aging Weapons Systems***
  - *Consumption* – Up
  - *Reliability* – Down
  - Complex Configuration Issues
- ***Declining Parts Inventories***
  - *Obsolescence – Up*
  - *Funding – Down*
- ***Vendor Base***
  - *Shrinking and Volatile*
  - *Mergers and Relocations*

Future Readiness

- ***Attain Recapitalization Objectives***
  - *Reduce workload*
  - *Focus on savings*
- ***Transformation***
  - *Realign infrastructure*
  - *Implement cost-wise readiness*
- ***Movement to TLS***
  - *Increase Performance Based Support*
  - *Expand to other ILS elements*

Yesterday's inventory intense and sub-optimized solution no longer an option … need new strategy

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PBL Background

A Different Acquisition Strategy

Pre - 1996 / 1997 - 1999 / 2000 and Beyond

Traditional Inventory Mgmt		Supply Chain Management
Buying Parts to Address Failure	→	Attacking Logistic Failures ✓Improve Reliability ✓Resolve Obsolescence ✓Integrate Support Solutions
Managing Supplies	→	Managing Relationships and Outcomes ✓Customer Focused Goals ✓Gov't/Industry Partnerships

Turning to Commercial Best Practices

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PBL Background

Alternative logistics support solutions that transfer traditional DoD inventory management, technical support, and supply chain functions to the provider for a guaranteed level of performance at the same or reduced cost.

PBL Supplier Roles

- *Warehousing*
- *Requirements determination*
- *Engineering/tech services*
- *Transportation*
- *Repair/overhaul/ replace decision*
- *Consumable piece parts*
- *Obsolescence management*
- *Configuration management*
- *Technology/reliability insertion*

Cultivate *Long Term* Partnerships With Industry

Purpose

Lower Response Time
Lighten Logistics Footprint
Increase Availability

Leverage Commercial Supply Chain Solutions

A Reengineering Tool to Improve Readiness through Reliability

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PBL Background

Development Process…12-24 Months

Candidate Selection → **Business Case Analysis** → **Negotiate/ Award/ Track**

Input From:

- Program Office
- Fleet
- Industry
- ICP "Opportunity Index"

Focus On:

- New Systems
- Commercial for Life
- Low Reliability
- Poor Availability
- Obsolescence Challenges
- High Cost/High Demand

Responsibilities:

Government:

- Must accurately capture & forecast costs of traditional government processes

Contractor:

- Proposal in response to SOW
- Incorporate commercial best practices and industry expertise… costing based on the re-engineered process

IPT:

- Compares BCAs w/ & w/o PBL

Focus On:

- Best Value Support
- Transition Plan
- Performance Tracking
- Program Reviews

Includes Title 10 analysis prior to award

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PBL Background

PBLs: One Size Does NOT fit All …Each is Unique!

- **Contract Type:**
  - *Fixed, Cost +*
- **Length:**
  - *5–15 Years; Base & Option(s)*
- **Metrics:**
  - *Availability, Reliability*
- **Incentive:**
  - *Profit tied to performance*
  - *Award fees*
- **Risk Sharing:**
  - *Ramp-up Periods*
  - *Exit Provisions*
  - *Gain Sharing*
- **Obsolescence Management**
  - *Product life cycle mgmt*
  - *Proactive approach*
- **Long Term Partnerships:**
  - *Promote Supplier Investment*
  - *Technology Infusion*
  - *Enable Supplier ROI*
- **Best Business Practices:**
  - *Six Sigma*
  - *Lean Logistics*
  - *Theory of Constraints*
- **Focused on Performance**
  - *Right behavior incentivized*
  - *Better performance, more award*
- **Tracking**
  - *Joint Review Boards*
- **DLA Involvement**
  - *Markets self as Best value provider*

Procuring Supply Chain Performance … NOT just parts

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PBL Background

Key considerations from the outset:

- ***Scope … definition of scope … mutual understanding of scope***
- ***Universe of items to be covered … understanding of current support posture and implications to desired performance requirements***
- ***Affordability … available funding … a direct impact on scope***
- ***Stakeholder concerns … Fleet / DLA / FMS / organic depots / Small Business / Interservice customers***
- ***Core determination… partnership considerations***
- ***Cash flow***

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Why they work:

- *We buy comprehensive performance package… not individual parts*
- *This approach totally reverses vendor incentive*
  - *Fixed price "pay for performance" contract now motivates vendor to reduce failures / consumption*
  - *Long term commitment enables vendor to balance risk vs. investment*

Vendor Actions

- ***Improves Parts Support*** *… Material availability increases + Logistics Response Time (LRT) decreases resulting in Improved Readiness*
- ***Optimizes Depot Efficiency*** *… Repair Turn Around Time (RTAT), Awaiting Parts (AWP), & Work in Process (WIP) decrease*
- ***Invests in Reliability*** *… Mean Time Between Failures (MTBF) improves*
- ***Shortstops Failures*** *… reduces off-station demand*

Procuring the Performance "End-State" … NOT the "How To"

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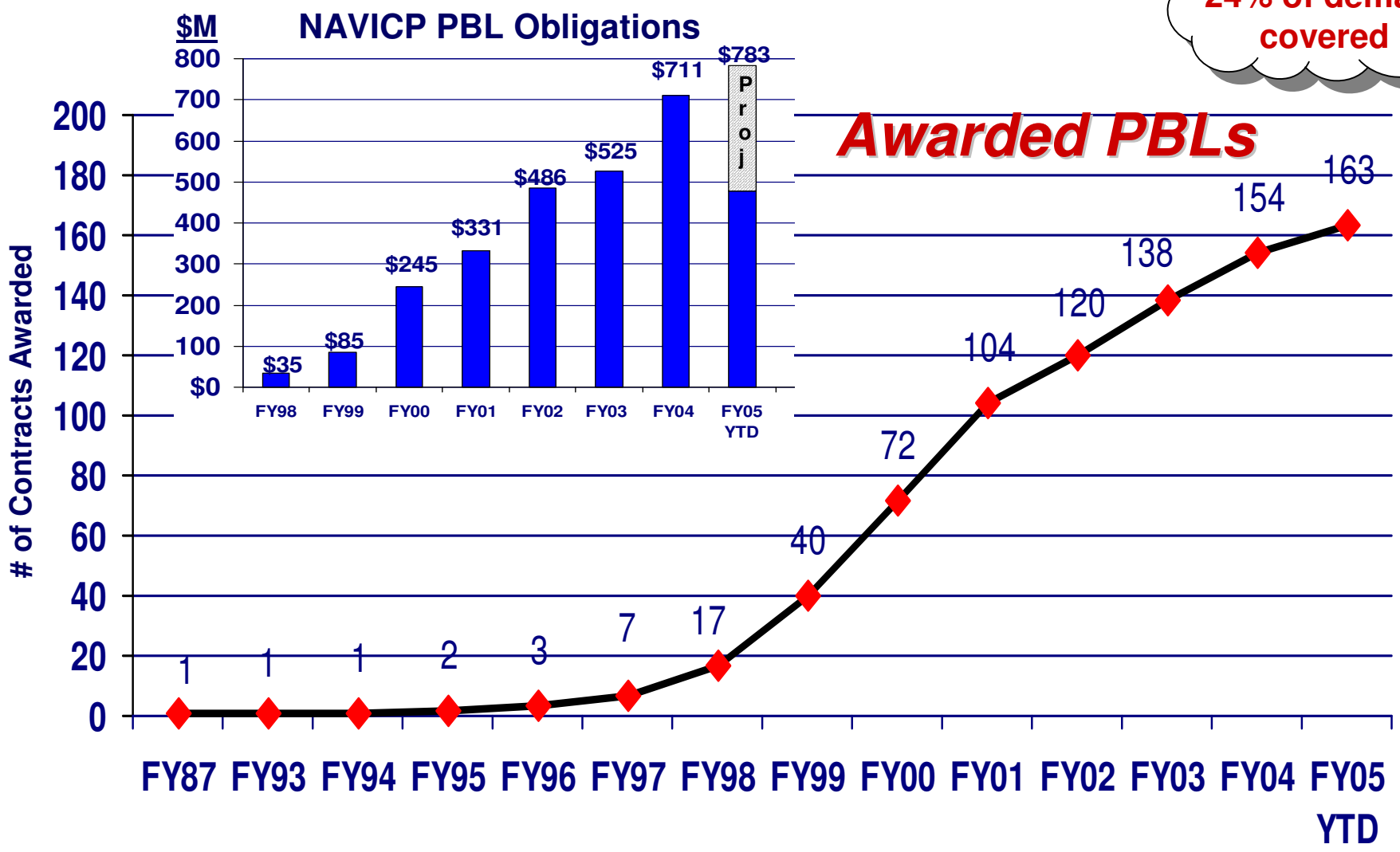
PBL Program Status

42K items, 24% of demand covered



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PBL Success Stories

Aviation Successes

F/A-18E/F FIRST

- $750M over 5 years
- Awarded May 2001
- Over 100 systems
- 131 suppliers: 15K parts
- Inventory management / warehousing / MIS / engineering
- Reliability improvements
- Teaming with 3 NADEPs
- 85% availability vs 67% for F/A-18 C/D

F404 Engine

- $510M contract with 5-year base and five 1-year options
- Awarded July 2003
- Partnership with NADEP Jacksonville … best practices/technology insertion
- Covers 27 repairable components
- Guaranteed 85% availability … pre-PBL SMA 55%
- Repair process improvement incentives
- Obsolescence management
- Inventory management/storage

H-60 Tip to Tail:

- $417M with 5-year base period
- Awarded December 2003
- Partnership with 5 depots
- Covers 540 NSNs
- Guaranteed availability 85%
- Obsolescence management
- Inventory management
- Requirements determination

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PBL Success Stories

Maritime Successes

AEGIS Spy 1 Radar

LOCKHEED MARTIN

- $33.5M over 4-year base with one 4-year option
- Awarded March 2002
- 1600 line items; transitioned from Mini Stock Point to Full PBL
- Minimum fill rate 87%
- Requirements determination
- Class II Config Auth
- CONUS transportation

NATO Sea Sparrow/ TAS/MK-23

Raytheon

- $30M with 5-year base, no options
- Awarded October 2003
- Guaranteed availability
- Reliability growth
- Configuration management
- Requisition support, repairs & builds
- Class II ECP's
- Inventory management ... rqmts determination

WSN-7/BPS-15/16 Navigation Systems

NORTHROP GRUMMAN

- $65M with 5-year base with one 3-year option
- Awarded September 2004
- Partnership with NSWC Crane
- Guaranteed 85-87% availability…incentives beyond 87%
- Routine response time 18 days; CASREP 24 hours
- Corporate PBL with potential growth

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PBL Success Stories

A Sampling …

- F/A-18 SMS - availability was 65% ... now 98%
- CIWS - availability was 85% ... now 95%
- Tires - availability was 81% ... now 98%
- ARC - 210 Radio - availability was 70% ... now 85%
- AEGIS - availability was 85% ... now 95%
- APU - availability was 70% ... now 90%
- F-14 LANTIRN - availability was 73% ... now 90%
- H-60 Avionics - availability was 71% ... now 85%
- F/A-18 E/F FIRST - 85% availability ... F/A-18 C/D 73%

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PBL Success Stories

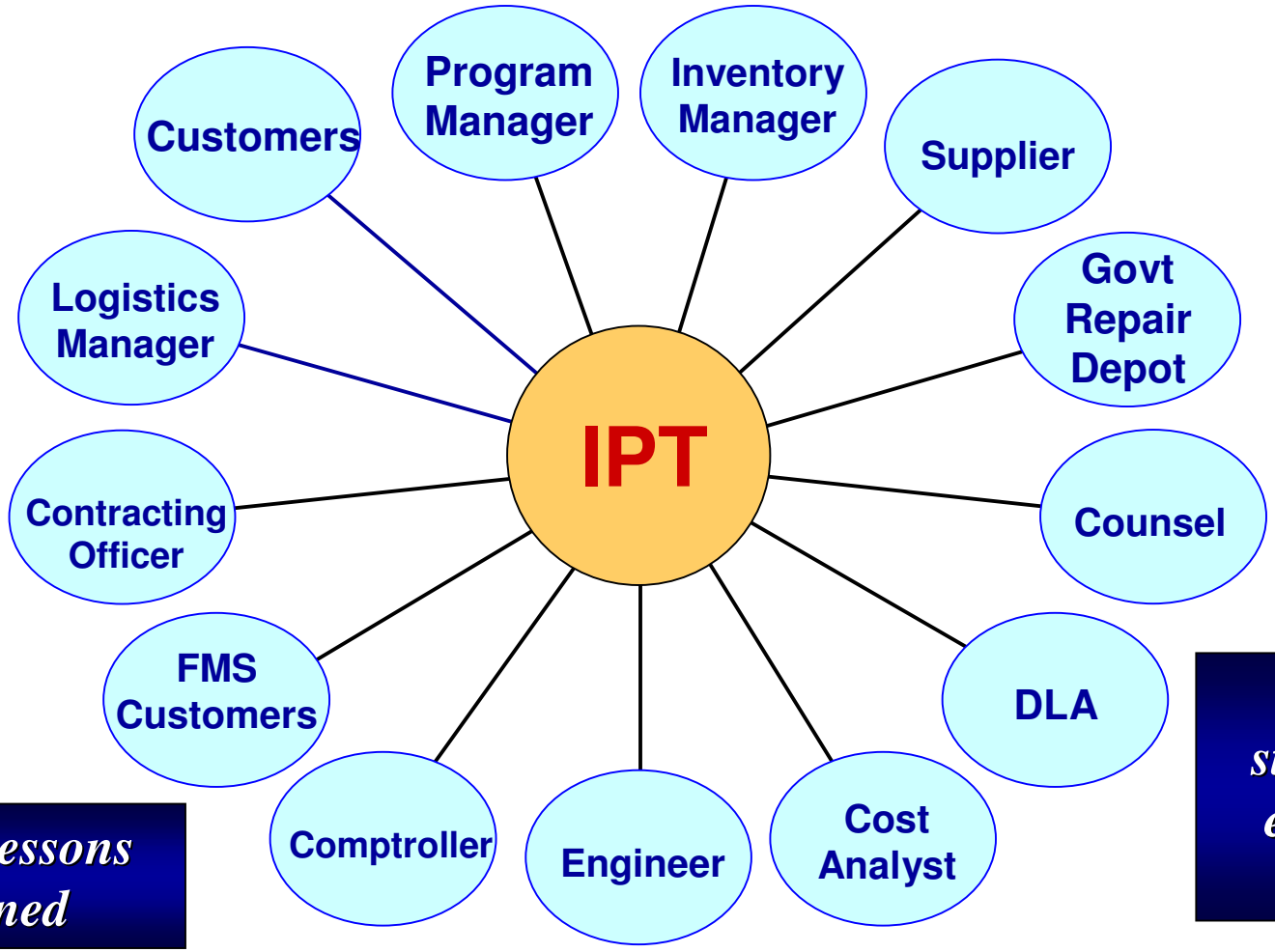
A Sampling …

Improved Availability:	*CIWS ... was 80%, now 89%* *F-14 Targeting System ... was 73%, now 90%*
Better Response:	*F-18 Stores Mgmt System ... Customer Wait Time (CWT) was 47 days, now 7* *Auxiliary Power Unit (APU) ... CWT was 35 days, now 6 ... RTAT was 162 days, now 38*
Guaranteed Reliability:	*Radar Warning Receiver ... 53% increase* *H-60 FLIR ... 40% increase*
Reduced Inventory:	*Tires ... no inventory, no warehouse costs* *APU ... 40% inventory decrease*

Making Steady Progress ... Continuing to "Raise the Bar"

The IPT

Integrated Product Team



Share Lessons Learned

Engage stakeholders early in the process

Take Aways

PBLs ...

- **Proven approach to cost wise readiness**
  - *Vendor investments enhance legacy support*
  - *Vendor assumes risk for new systems*
- **The solution to today's tough challenges**
  - *Vendor manages obsolescence*
  - *Vendor inserts technology*
  - *Vendor improves reliability*
  - *Vendor increases availability*
- **The "enabler" for future savings**
  - *Vendor performance opens the door to inventory / supply chain efficiencies*
  - *Vendor engagement as early as possible in the life cycle maximizes outyear potential*

Back Up

Where We Are
Partnerships

Why Partner?

- OSD Policy
- Satisfies Title 10 USC
- Effective Use of Depot Expertise – Strike Proof, Skilled
- Stable Depot Workload
- Material Support
- Sharing of Best Business Practices
- Technology Insertion

Where We Are
Partnerships

Why Partner?

- Reliability Improvements Encouraged
- Reduces TAT, and Inventory Requirements
- Defined Workshare
- "Partners", Not "Competitors"
- Sharing vs. Maintaining Competitive Edge
- Improved Readiness at Reduced Costs

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Aviation PBLs

Aviation Awarded PBLs

	Contractor	PBL	Date	Type	Depot	Status	Contract
1	Boeing	F-18 ARF	Dec-95	M			N0038302G001H0015
2	Litton	Common RINU	Sep-96	F			N00383-96-D-035G
3	Lear	H-46 AHRS	Sep-97	F-LECP		Exp	N00383-97-D-020G
4	NWS Crane	P-3 SSIP	Oct-97	O			MOA
5	Testek	SE AGTS	Apr-98	F			N68335-98-C-0216
6	GE Strother	Engines T-700	Sep-98	M		Exp	N000383-98-D-022F
7	GEC Marcon	Common SCADC	Sep-98	F			N00383-98D-014G
8	Sikorsky	H-60 Damper (rolled into T2T)	Mar-99	F		Exp	N00383-01-D-002N
9	Rolls-Royce	Engines T-406 PBTH	Mar-99	CLS			N00019-95-C-0209
10	Marconi	Common NGS	Jul-99	F-LECP			N00383-99-D-021G
11	Smith Ind.	F-18/F-14/AV-8 SMS	Sep-99	F			N000383-99-D-009D
12	Raytheon	Common ALR-67(v)3	Oct-99	F			N00383-99-D-020G
13	Honeywell	EA-6B EFIS	Dec-99	LTC			N00383-00D-002B
14	Deval	SE AHE	Dec-99	F			N00383-00-D-007P
15	NAVAIR/ Dyncorp	SE GOSSPL	Feb-00	MOA			N00383-00-D-003P ??
16	LMIS	SE CASS/CASS CSP	Dec 97 /May 00	F			N6833501C0009/ N68335-03-C0246
17	Honeywell	S-3/E-2/C-2/F-18-A-D/ P-3 APU's	Jun-00	P	CP		N00383-00-D-007J
18	Dyncorp	SE QEC	Jun-00	O			MOA
19	Raytheon	V-22 NAVFLIR (renewed)	Jun 00/ Mar 03	F			USZA95-98-C-0006/USZA95-03-C-0004
20	FST Noris	SE CRATE	Jun-00	O		Exp	N00383-02-D-001P
21	Multi Rae	SE Gas Detector	Jun-00	F			N00383-00-C-013P
22	Sikorsky	H-53 MRH	Jul-00	M			N00383-97-D-016N (mod.#P00014)
23	Sikorsky	H-53 MGear Box	Jul-00	M			N00383-97-D-013N (mod.#P00010)
24	Kaman	H-2 A/C	Aug-00	F			
25	L-3 Comm	E-2 EMDU	Aug-00	F-LECP			N00383-00-C-019F
26	Boeing	V-22 DLRs	Jan 01	F			N00383-99-G-009N (APN-6 funded)
27	FST Jax	SE EOTS	Jan 01	O			MOA
28	Rockwell	Common ARC-210	Jan 01	F			N00383-01-D-003G
29	Lockheed	F-14 LANTIRN	Jan 01	F			N00383-01-D-004F
30	Michelin	Common Tires	Feb 01	F			N00383-00-D-042G
31	Jay-Em	EA-6B Main Wheels	Feb 01	LTC			N00383-01-D-007B
32	Lockheed	E-2 APS-145	Feb 01	M		Exp	N00383-99-D-009F
33	Tel Inst	SE IFFITTS	Mar 01	F			N00383-01-D-003P
34	NWS Crane	S-3 Elec Tubes	Apr 01	O			MOA
35	Boeing	F/A-18E/F FIRST	May 01	P	Multi		N00383-01-D-001H
36	Charleston	P-3 EP-3J Mod	May 01	O			N0038301WXZ3111 (APN-6 funded)
37	Lockheed	SE EOSS+	Jun 01	F			N68335-01-C-0001
38	TRW Inc.	E-2 GRIIM RePr	Sep 01	F-LECP			N00383-01-C-008F
39	Smith Ind.	Common ASN-50	Oct 01	LTC			N00383-01-D-018G
40	Raytheon	H-53 HNVS FLIR (renewed)	Oct 01/ Mar 03	F			USZA95-98-C-0006/USZA95-03-C-0004
41	Honeywell	C-130 APU	Feb 02	F			N000383-00-D-007J
42	Honeywell	F-18 E/F APU	Feb 02	P	CP		N00383-00D-007J
43	Kollsman	AH-1W NTS	Apr 02	M			N00383-01D-012G
44	Lockheed	H-60 Avionics (rolls into T2T Oct 2004)	May 02	F			N00383-02-D-009G
45	FST Jax	SE SALSA	Jul 02	O			MOA
46	LSI	T-2 Cockpit (renewed)	Mar 99 /Jul 02	M			N00383-02D-006A
47	Raytheon	Common ALE-50A	Aug-02	F			N00383-02-D-010G
48	Keyport	EA-6B Tailpipes	Dec-02	O			MOA
49	Rolls-Royce	Engines AE2100D3 PBTH	Dec-02	CLS			N00019-03-D-0002
50	Sikorsky	H-60 Dyn Comp (rolls into T2T Oct 2005)	Feb-03	F			N00383-03D-007N
51	BAE	SE EWSE (renewed)	Jan 01 /Feb-03	F			N00383-03D-001A
52	AAI	SE JSECST (interim PBL for 3 yrs)	Mar 03	M			N68335-03-D-0005
53	Boeing	F/A-18 MSP (mod to ARF)	May 03	M			N0038302G001H0015
54	GE	Engines F404	Jul 03	P	Jax		N00383-03D-011M
55	Lockheed	SE CASS Hi Power	Jul-03	F			N68335-03C-0011
56	Kaiser	F/A-18/F-14 HUD/DDI	Sep-03	P	Jax/NI		N00383-03-D-100H
57	Raytheon	H-60 FLIR	Sep 03	P	Jax		N00383-03D-006A
58	Ham Sundst	H-46 APU H-53 APU	Oct 03	P	CP		N00383-04D-001J
59	Honeywell	P-3 EDC (APU add-on)	Oct 03	P	CP		N00383-00-D-007J
60	MHSCO	H-60 Tip to Tail	Dec 03	P	Jax/NI/ CP CCAD Toby		N00383-04D-028N
61	Honeywell	F404-400/402 Main Fuel Controls (APU add-on)	Jun 04	P	Jax		N00383-00-D-007J
62	F.A.G.	Engines TF-34 Bearings	Jul 04	F			N00383-04-D-013M
63	GE	Engines T-700 (follow-on)	Sep 04	F			N00383-04-D-014M
64	GE	Engines F414 C & A	Nov-04	P	Jax		N00383-05-D-001M
65	ESI	F-14 Hydraulics EA-6B Hydraulics	Dec 04	P	Jax/NI		N00383-05-D-001B
66	BAE	Common ALQ-126B	Feb 05	P	Jax		

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Aviation PBLs

Aviation PBL Initiatives In Work

Contractor	PBL	Type	Depot	EAD	Contractor	PBL	Type	Depot	EAD
Raytheon	Common ALR-67 option	F		Jun 05	Honeywell	Common Advanced Multi-purpose Displays (AMC&D)	F		Dec 05
MHSCo	H-60 T2T (Phase II)	P	Multi	Jun 05	Rockwell Collins	ARC-210 Follow On	F		Jan 06
Moog	F/A-18 LEF Actuator	P	NI/Jax	Jul 05	Raytheon/Boeing	F/A-18/AV-8 APG-65/73 (add-on to FIRST)	F		Mar 06
Raytheon	P-3 APS-137B	F		Jul 05	Northrup/ Grumman	AV-8B Litening Pod	P	Jax	Jun 06
Parker Hannifin	F/A-18 TEF Servo and Horizontal Stab.	P	NI/Jax	Jul 05	Lockheed Martin	MH-60R/S Common Cockpit	P	TBD	Jul 06
Boeing	H-46 Comp Phase I	P	CP	Jul 05	VSI	F/A-18 JHMCS	P	Crane/Warner Robins	Oct 06
GE	Engines T-64	P	CP	Jul 05	Rockwell Collins	E-2 RROSE/H-1 Avionics	P	NI	TBD
Sikorsky	H-53 Phase I	P	CP	Aug 05	General Dynamics (GDIS)	Common Advanced Mission Computer (AMC&D)	F		TBD
Smiths Aerospace	F/A-18 SMUG	F		Aug 05	Pratt & Whitney	Engines J-52	P	Jax	TBD
Ontic	Engines T-58/T-64 Main Fuel Controls	P	CP	Sep 05	Boeing	V-22 CLAWS	P	TBD	TBD
Competitive	AV-8B HISS	P	CP/NI	Oct 05	TBD	EA-6B ALQ-99	TBD		TBD
Boeing	F/A-18 FIRST Follow-On	P	Multi	Oct 05	Lockheed Martin	E-2 APS-145	F		TBD
GE	Engines F414 Depot Components	P	Jax	Dec 05	Raytheon	F/A-18 ATFLIR	P	Jax	TBD

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Maritime PBL Initiatives

Awarded

Contractor/Activity	PBL	TYPE	Awd Dt
Integraph	ICAS	C	Jun-96
AEA Technology	Isotopes	C	Sep-96
GTSI,SOSI&Seabird	AN/SQQ-32(V), BSP	C	Oct-97
Zodiac	F-470	C	Dec-97
Lockheed Martin	AEGIS (LM)	MSP+	Jan-98
Ocenco	EEBD	C	Feb-98
Lockheed Martin TDS	AN/UYQ-70	C	Sep-98
NSWC Crane	AN/SLQ-32 LSS	O	Oct-98
Chromalloy	LM2500	C	Mar-99
Village Marine Technology	Reverse Os. Desal	C	Apr-99
Interlink Communicator	AN/AMP-383	MSP	May-99
SPAWARSYS SD	ADNS	O	Jun-99
SSC Charleston	NAVMACS II	O	Jun-99
Various	GPETE/CAL Stds	C	Jun-99
Lockheed Martin	MK-92	MSP	Jun-99
FTSCLANT	AN/SQQ-89(V)6	MSP	Jun-99
SSC Charleston	SSEE, Inc. B	O	Jul-99
Raytheon Service Co	Sidewinder	MSP	Aug-99
Raytheon Service Co	AN/UYA-4	MSP	Aug-99
Raytheon Service Co	AN/UYQ-21	MSP	Aug-99
SSC Charleston	NTCSS	O	Aug-99
SSC Charleston	SNAP III	O	Aug-99
SSC Charleston	NALCOMIS	O	Aug-99
SPAWARSYS St. Juliens	TAC 3	O	Aug-99
SPAWARSYS St. Juliens	TAC 4	O	Aug-99
Raytheon	Raytheon Svcs	MSP	Aug-99
Lockheed Martin	AN/BSY-2	MSP	Aug-99
Lockheed Martin	AN/BQG-5	MSP	Aug-99
SSC Charleston	JMCIS	O	Oct-99
ISSI	25 Man Life Raft	C	Feb-00
SSC Charleston	SCCTV	O	Feb-00
Raytheon	CIWS	Full	Mar-00
SSC Charleston	BGPHES	O	Apr-00
SPAWAR	AN/WRR-12 SLVR	O	May-00
Raytheon/Newport	CCS MK2 Mod 0	Full	May-00
W.S. Darley & Co.	P100 Pumps	C	Jun-00
Triway Industries	Berthing	C	Jul-00
SSC Charleston	AN/URC-109	O	Aug-00
NUWC Keyport	MPIU	O	Sep-00
CSS Panama City	SDV	O	Oct-00
SPAWAR Charleston	SSEE Inc. D	O	Oct-00
Raytheon	AEGIS - Raytheon	Full	Oct-00
NUWC Keyport	CV-TSC AN/SQQ-34	O	Oct-00
Northrup Grumman/Sperry	AN/BPS-15H	Full	Oct-00

Contractor/Activity	PBL	TYPE	Awd Dt
NUWC Newport RI	AN/BYQ-6	O	Nov-00
SPAWAR Charleston	TRDF	O	Jan-01
NAWC-AD St. Inigoes MD	AN/UPX 24 & OE-120	O	Feb-01
Carleton Technologies	Life Raft Inflat Cylinder	C	Mar-01
Allen Bradley	PLC	C	Apr-01
Keystone Fire Protection Co	PKP Fire Extinguisher	C	Apr-01
Katadyn North America	MROD	C	May-01
ISSI	50 Person Life Raft	C	Jun-01
LINPAC	Reusable Bulk Containers	C	Aug-01
S.E.I.	Life Raft Inflation Valve	C	Aug-01
A.W. Chesterton Co	Chesterton	C	Sep-01
Parasense	Refrigerant Leak Monitors	C	Oct-01
Lockheed Martin	AEGIS SPY 1 Radar	Full	Mar-02
NAWC-AD St. Inigoes MD	MX XII IFF	O	Mar-02
Pointer Technology	FTIC	C	Mar-02
Northrup/Grumman/Sperry	AN/BPS - 15J Radar	Full	Mar-02
SPAWAR San Diego	AN/BSQ-9(V) TFDS	O	Apr-02
Harris	WSC-8(v) 1&2	Full	Jul-02
Super Vacuum Mfg Co.	Tubeaxial Fan	C	Sep-02
Northrup Grumman/Sperry	AN/BPS-16(V) 2/3 &4	Full	Oct-02
Rexnord	Magnetic Couplings	C	Dec-02
Qualified Fasteners, Inc.	Fasteners CTC	C	Feb-03
Ocenco	EEBD Resolicitation	C	Apr-03
Northrop Grumman Corp	ASDS	Full	Apr-03
Bath Iron Works	DDG 51 Ships Store Ref	CLS	May-03
CSS Panama City	Dry Deck Shelter	O	May-03
L3 Communications	CDL-N, AN/USQ-123	MSP	May-03
Ericsson Inc.	HYDRA	C	Jul-00/Jun-03
NSWC Crane	High Security Padlocks	O	Oct-03
Raytheon	NATO Seasparrow/TAS	Full	Oct-03
BAE Systems	IFF Digital Transponder	Full	Jan-00/Oct-03
NUWC Keyport	VLS Cables	O	Oct-03
SPAWAR San Diego	TACAN	O	Nov-03
Lockheed Martin	MK-41 VLS	Full	Nov-00/Mar-04
Air Prgms-Torpedoes-ATC	AN/TPX-42(V)	O	Mar-04
Lockheed Martin	ARCI	Full	Apr-99/Sep-04
Northrup Grumman	WSN-7 & BPS-15/16	P	Sep-04
Northrup Grumman	AN/BPS-15/16	Full	Sep-04
SSC Charleston	COBLU	O	Oct-04
NSWC Pt. Hueneme	SSDS/RAIDS	O	Oct-04
NSWC Crane	AN/SLQ-32	O	Dec-04
NAWC St. Inigoes	AN/UPX-37	O	Dec-04
SPAWAR Charleston	SSEE, Inc. E	O	Dec-04

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Maritime PBL Initiatives

FY05

Contractor/Activity	PBL	TYPE	EAD
SPAWAR Charleston	ADAS	O	Jan-05
SPAWAR San Diego	AN/TMQ-44(v) METMF	O	Jan-05
Lockheed Martin	AN/BQQ-10 ARCI and C3I	Full	Jan-05
Raytheon	AN/SQQ-32&AN/SLQ-48	Full	Feb-05
SPAWAR San Diego	NECC/TIP	O	Feb-05
Hamilton Sunstrand	Integrated Low Press Electrol	Full	Apr-05
Lockheed Martin	AN/BSY-2 & AN/BLQ-10	Full	Apr-05
NUWC Keyport	Type 18 Periscopes	O	Apr-05
SPAWAR San Diego	Legacy ESM	O	Apr-05
Raytheon	AN/USC-38	Full	May-05
CSS Panama	AMCM	O	May-05
NSWC Crane	BFTT,BEWT,TSSS	O	May-05
Raytheon	CEC AN/USSG-2	Full	May-05
Lockheed Martin	CADF Lite Antenna	Full	May-05
NUWC Newport	AN/BQN-17A	O	May-05
Northrop Grumman	LPD-17	CLS	Jun-05
SPAWAR San Diego	ADMS	O	Jun-05
SPAWAR San Diego	AN/UMK-4 (v) NITES	O	Jun-05
SPAWAR Charleston	DMR (AN/USC-61)	O	Jun-05
NSWC Crane	AN/SPS-49/SPS-64	O	Jun-05
Lockheed Martin	AN/UYQ-70	Full	Jun-05
L3	MarCom IVCS	Full	Jul-05
DRS	AN/SPS-67 Surf Radar	Full	Sep-05