



DEPARTMENT OF THE NAVY

OFFICE OF THE SECRETARY
1000 NAVY PENTAGON
WASHINGTON, DC 20350-1000

DEC 23

MEMORANDUM FOR CHAIR, TECHNICAL JOINT CROSS SERVICE GROUP

Subj: DON ANALYSIS OF TECHNICAL JOINT CROSS SERVICE GROUP (JCSG)
SCENARIOS TECH-0028 AND TECH-0031

Ref: (a) DDR&E ltr dtd 2 Dec 04

Encl: (1) TJCSG Scenario 28 Analysis Report Book
(2) TJCSG Scenario 31 Analysis Report Book

Per reference (a), draft analysis reports for Technical JCSG scenarios 28 and 31 are provided. This analysis was conducted by members of the Department of the Navy (DON) Technical Joint Cross Service Group (TJCSG) Support team in fulfillment of their responsibility to provide working-level analytical support to the TJCSG. As such, this analysis should not be construed as DON endorsed analysis. DON is making no recommendations with respect to these scenarios at this time.

The analytic methodology followed that used by the TJCSG for all other scenarios. The analyses are in draft form because critical data is required to complete the COBRA analysis. The DON TJCSG Support team is prepared to provide a full briefing on the analysis at your request. A final draft will be provided when COBRA analysis is complete. The team is also prepared to analyze alternatives or excursions to these scenarios as required. My point of contact for the DON Technical Support team is Col Walter Hamm. He may be reached at 703-602-6421.

A handwritten signature in cursive script that reads "Anne Rathmell Davis".

Anne Rathmell Davis
Special Assistant to the Secretary of the Navy
for base Realignment and Closure

cc:
O6/GS 15 Lead, Technical JCSG
Navy & Marine Corps Principals, Technical JCSG

Candidate # TECH-0028

Candidate Recommendation: Relocate Underwater Weapons Research, Development, Acquisition, Test and Evaluation, and System Integration, Mine Warfare, and Unmanned Undersea Vehicles from Naval Surface Warfare Center Panama City, FL to Naval Undersea Warfare Center Newport, RI

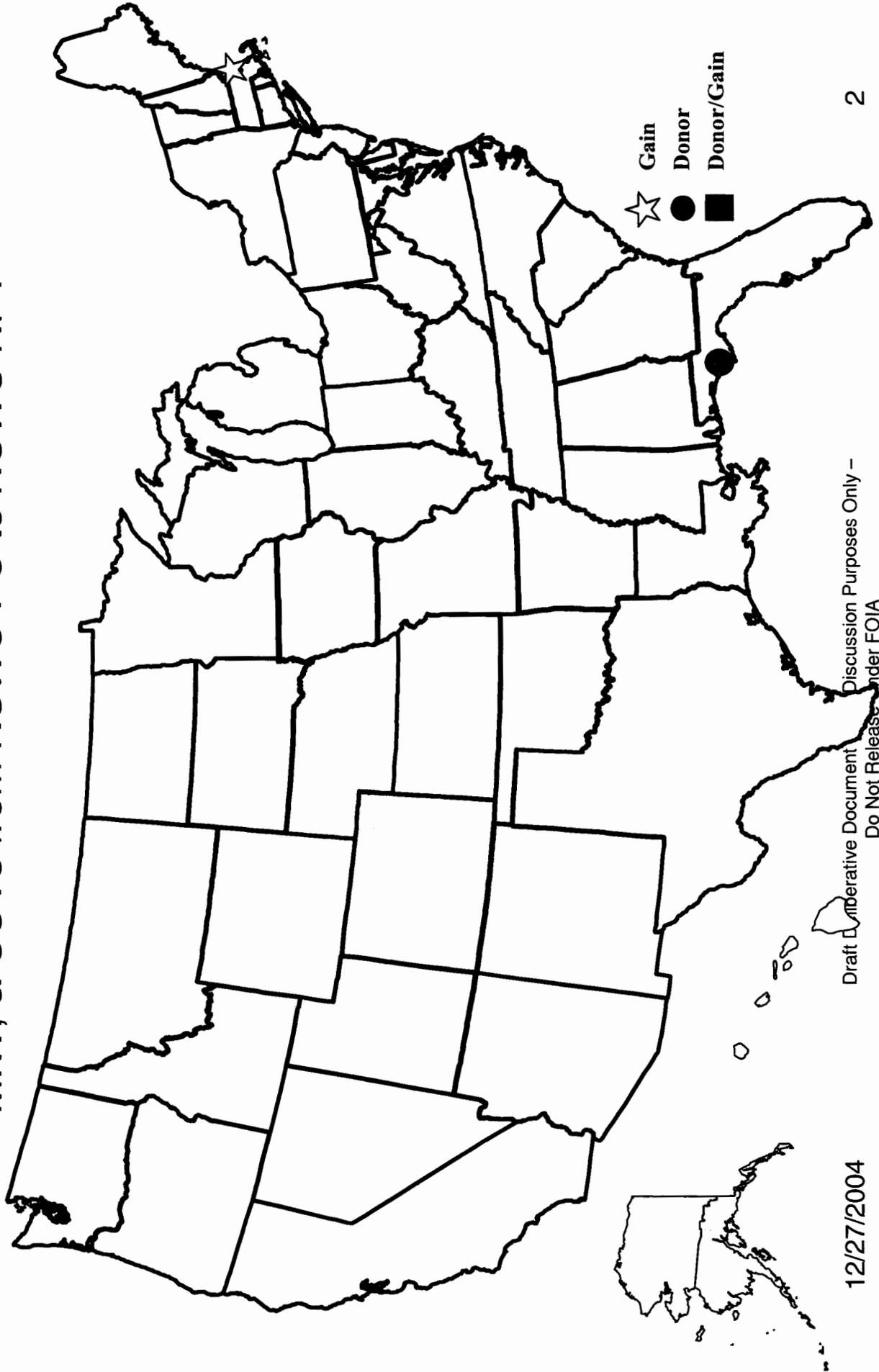
<p style="text-align: center;"><u>Justification</u></p> <ul style="list-style-type: none"> • Consolidate all DoD Underwater Weapons RDT&E to one location • Increase effectiveness and efficiencies 	<p style="text-align: center;"><u>Military Value</u></p> <ul style="list-style-type: none"> • Military value of NUWCNPT is .2725/.2734/.2390 for R/D&A/T&E • Military value of NSWCPC is .2851/.2315/.2300 for R/D&A/T&E • Military Judgment was applied and rational for conclusions are provided
<p style="text-align: center;"><u>Payback</u></p> <ul style="list-style-type: none"> • Payback period -- TBD years (Requires COBRA analysis) • One time cost -- \$ TBD • Steady state annual savings - \$ TBD 	<p style="text-align: center;"><u>Impacts</u></p> <ul style="list-style-type: none"> • Criteria 6 -- TBD • Criteria 7 -- No impact • Criteria 8 -- No impact

- Strategy
 Capacity Analysis / Data Verification
 JCSG/MilDep Recommended
 De-conflicted w/JCSGs
 COBRA
 Military Value Analysis / Data Verification
 Criteria 6-8 Analysis
 De-conflicted w/MilDeps
 Legal Review

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TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT



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TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT

Military Value and Capacity Data

Weapons Technology D&A

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Weapons Technology D&A	93555 USN	USN_2_China Lake	0.4983	2,023	522,017	\$280,986.9	\$176,195.3	22		74,357	42,906
Weapons Technology D&A	22448 USN	NAVSURFWARCENDIV_DAHLGREN_VA	0.4669	2,553	389,582	\$545,854.2	\$312,050.8	14		15,393	34,389
Weapons Technology D&A	20670 USN	USN_8_Pax	0.3660	511	11,520	\$1,667,645.6	\$1,183,589.0	21		673	837
Weapons Technology D&A	93043 USN	USN_3_Port Hueneme	0.3103	1,835	330,093	\$331,865.8	\$120,666.6	10		17,943	44,645
Weapons Technology D&A	20640 USN	USN_3_Indian Head	0.2782	1,167	529,782	\$364,381.5	\$13,392.3	3		25,950	56,923
Weapons Technology D&A	02841 USN	COMNAVUNSEAWARCEN_NEWPORT_RI	0.2729	850	107,894	\$126,446.9	\$71,334.0	8		22,903	10,065
Weapons Technology D&A	32407 USN	USN_2_Pannama City	0.2309	607	96,536	\$112,784.0	\$20,501.9	5		11,752	13,271
Weapons Technology D&A	47522 USN	NAVSURFWARCENDIV_CRANE_IN	0.2292	682	281,353	\$206,821.8	\$52,970.2	7			17,538
Weapons Technology D&A	93042 USN	USN_2_Pt Mugu NAVUNSEAWARCENDIV_KEYPORT_WA	0.2252	523	116,228	\$56,281.8	\$21,958.4	3			
Weapons Technology D&A	98345 USN	Keyport	0.2223	78	81,488	\$8,489.1	\$9,967.9	2			
Weapons Technology D&A	20376 USN	USN_3_WNY SURFCOMBATSYSCEN_WALLOPS_ISLAND_V	0.2134	186	10,553	\$1,045,725.6	\$271,053.0	5			3,640
Weapons Technology D&A	23337 USN	A	0.1865	90	50,820	\$10,243.6	\$8,172.2	2		45,034	5,777
Weapons Technology D&A	92878 USN	NAVSURFWARCENDIV_CORONA_CA	0.1824	202	44,740	\$19,710.6	\$1,732.1	1		3,120	7,104
Weapons Technology D&A	23461 USN	USN_3_VABEACH NAVSURFWARCENDIV_PORT_HUENEME_CA	0.1673	141	11,679	\$31,286.3	\$8,751.0	2		9,304	4,627
Weapons Technology D&A	40214 USN	Louisville	0.1550	246	49,845	\$92,281.2	\$23,322.0	3		11,955	4,324
Weapons Technology D&A	22217 USN	OFFICE OF NAVAL RESEARCH NAVSURFWARCENDIV_INDIAN_HEAD_MD	0.1451	20		\$40,025.5	\$0.0	0			
Weapons Technology D&A	90740 USN	Seal Beach	0.1424	43	39,044	\$15,114.2	\$5,817.1	1			3,744
Weapons Technology D&A	22134 USN	USN_2_Quantico	0.1303	128		\$18,516.0	\$11,762.2	4			
Weapons Technology D&A	07722 USN	Colts Neck	0.1295	71	18,200	\$12,210.7	\$0.0	0		3,120	3,120
Weapons Technology D&A	23691 USN	USN_3_Yorkstown	0.1289	30	59,561	\$5,126.1	\$0.0	0		1,181	1,661
Weapons Technology D&A	88002 USN	WHITE SANDS MISSILE RANGE	0.1190	14	223	\$2,471.5	\$0.0	0			1,965

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT

Military Value and Capacity Data

Weapons Technology D&A

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Weapons Technology D&A	92152 USN	USN_4_San Diego	0.1185	51		\$6,561.1	\$0.0	0			
		NAVUNSEAWARCENDIV_KEYPORT_WA San									
Weapons Technology D&A	92123 USN	Diego	0.1085	1		\$107.5	\$0.0	0			
Weapons Technology D&A	92028 USN	NAVSURFWARCENDIV_CRANE_IN Fallbrook	0.0972	11		\$4,633.6	\$0.0	0			
		NAVUNSEAWARCENDIV_KEYPORT_WA									
Weapons Technology D&A	96792 USN	Waianae	0.0960	6		\$734.8	\$0.0	0			
		COMNAVAIRSYSCOM_PATUXENT_RIVER_M									
Weapons Technology D&A	32542 USN	D Eglin	0.0905		1,650	\$0.0	\$0.0	0			4,160
		COMNAVAIRSYSCOM_PATUXENT_RIVER_M									
Weapons Technology D&A	35898 USN	D Huntsville/Redstone	0.0905		402	\$0.0	\$0.0	0			2,773
Weapons Technology D&A	92135 USN	USN_4_San Diego	0.0903		660	\$0.0	\$0.0	0			
Weapons Technology D&A	20374 USN	USN_2_WNY	0.0902		19,744	\$0.0	\$0.0	0			
Weapons Technology D&A	23511 USN	USN_7_Norfolk	0.0902		1,440	\$0.0	\$0.0	0			
Weapons Technology D&A	33040 USN	USN_3_Key West	0.0902	0	32	\$0.1	\$0.0	0			
Weapons Technology D&A	85369 USN	YUMA PROVING GROUND	0.0902		876	\$0.0	\$0.0	0			
Weapons Technology D&A	37389 USN	Arnold AFS	0.0900	0		\$1.7	\$0.0	0			
Weapons Technology D&A	20375 USN	Naval Research Laboratory Washington DC	0.0858			\$0.0	\$0.0	0			272
Weapons Technology D&A	22202 USN	USN_3_Arlington	0.0829			\$0.0	\$0.0	0			
Weapons Technology D&A	20393 USN	DIRSSP_WASHINGTON_DC	0.0668			\$0.0	\$79,010.2	2			
		COMNAVAIRSYSCOM_PATUXENT_RIVER_M									
Weapons Technology D&A	22205 USN	D Arlington	0.0642			\$0.0	\$0.0	0			
		NAVSURFWARCENDIV_INDIAN_HEAD_MD									
Weapons Technology D&A	74501 USN	McAlester	0.0642			\$0.0	\$0.0	0			2,490
Weapons Technology D&A	01201 USN	NAVPMOSSP_PITTSFIELD_MA	0.0640			\$0.0	\$0.0	0			
Weapons Technology D&A	02840 USN	COMNAVUNSEAWARCEN_NEWPORT_RI	0.0636			\$0.0	\$0.0	0			
Weapons Technology D&A	92110 USN	USN_2_San Diego	0.0636			\$0.0	\$0.0	0			
Weapons Technology D&A	23460 USN	USN_2_VABEACH.	0.0636			\$0.0	\$0.0	0			
		PACMISRANFAC_HAWAREA_BARKING_SAN									
Weapons Technology D&A	96752 USN	DS_HI KEKAHA	0.0635			\$0.0	\$0.0	0			
		NAVUNSEAWARCENDIV_NEWPORT_RI West									
Weapons Technology D&A	33416 USN	Palm Beach	0.0635			\$0.0	\$0.0	0			

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TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT

Military Value and Capacity Data

Weapons Technology Research

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Weapons Technology Research	93555 USN	USN_2_China Lake	0.5062	368	301,798	\$46,487.8	\$0.0	0		27,786	25,927
Weapons Technology Research	20640 USN	USN_3_Indian Head	0.3336	206	123,058	\$99,668.8	\$0.0	0		9,202	12,601
Weapons Technology Research	32407 USN	USN_2_Pannama City	0.2851	190	27,841	\$31,133.8	\$0.0	0		962	3,174
Weapons Technology Research	22448 USN	NAVSURFWARCENDIV_DAHLGREN_VA	0.2834	257	39,878	\$35,687.2	\$0.0	0			20,370
Weapons Technology Research	02841 USN	COMNAVUNSEAWARCEN_NEWPORT_RI	0.2724	120	22,130	\$15,428.1	\$0.0	0		1,690	1,809
Weapons Technology Research	20375 USN	Naval Research Laboratory Washington DC	0.2487	8	3,107	\$1,317.8	\$0.0	0		77	2,149
Weapons Technology Research	22217 USN	OFFICE OF NAVAL RESEARCH	0.2031	92		\$277,144.7	\$0.0	0			
Weapons Technology Research	20670 USN	USN_8_Pax	0.1826	21	4,436	\$5,436.2	\$0.0	0		751	804
Weapons Technology Research	93042 USN	USN_2_Pt Mugu	0.1770	8	4,195	\$1,346.8	\$0.0	0			
Weapons Technology Research	47522 USN	NAVSURFWARCENDIV_CRANE_IN NAVUNSEAWARCENDIV_KEYPORT_WA	0.1754	16	1,612	\$2,491.2	\$0.0	0			
Weapons Technology Research	98345 USN	Keyport	0.1558	3	5,481	\$1,069.4	\$0.0	0			1,190
Weapons Technology Research	20732 USN	NRL Chesapeake Bay Detachment	0.1462	1	519	\$86.3	\$0.0	0			
Weapons Technology Research	93943 USN	NAVPGSCOL_MONTEREY_CA	0.1399	8	1,257	\$901.8	\$0.0	0			
Weapons Technology Research	23691 USN	USN_3_Yorkstown	0.1245	5	4,774	\$740.7	\$0.0	0		661	803
Weapons Technology Research	93043 USN	USN_3_Port Hueneme	0.1156	10	1,838	\$1,930.9	\$0.0	0			691

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TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT

Military Value and Capacity Data

Weapons Technology Research

Bin	ORGCODE Question	Main Org	MIVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Weapons Technology Research	88002 USN	WHITE SANDS MISSILE RANGE	0.1141	4	1,003	\$3,613.5	\$0.0	0			
Weapons Technology Research	22130 USN	Marine Corps Warfighting Laboratory	0.1130	4	1,800	\$4,146.7	\$0.0	0			
Weapons Technology Research	33040 USN	USN_3_Key West	0.1125	0	32	\$2.9	\$0.0	0			
Weapons Technology Research	20376 USN	USN_3_WNY	0.1077	2	112	\$741.9	\$0.0	0			
Weapons Technology Research	40214 USN	NAVSURFWARCENDIV_PORT_HUENEME_CA Louisville	0.0938	1	401	\$576.0	\$0.0	0			44
Weapons Technology Research	37389 USN	Arnold AFS CNR_ARLINGTON_VA ATLANTA REGIONAL	0.0768	0		\$3.3	\$0.0	0			
Weapons Technology Research	30303 USN	OFFICE	0.0731		1,560	\$0.0	\$0.0	0			
Weapons Technology Research	07722 USN	Colts Neck	0.0580	2		\$146.1	\$0.0	0			
Weapons Technology Research	92028 USN	NAVSURFWARCENDIV_CRANE_IN Fallbrook	0.0445			\$0.0	\$0.0	0			
Weapons Technology Research	39529 USN	NRL Detachment Stennis Space Ctr	0.0404			\$0.0	\$0.0	0		200	1,220
Weapons Technology Research	92152 USN	USN_4_San Diego	0.0376			\$0.0	\$0.0	0			
Weapons Technology Research	22134 USN	USN_2_Quantico	0.0376			\$0.0	\$0.0	0			
Weapons Technology Research	90740 USN	NAVSURFWARCENDIV_INDIAN_HEAD_MD Seal Beach	0.0375			\$0.0	\$0.0	0			
Weapons Technology Research	02840 USN	COMNAVJUNSEAWARZEN_NEWPORT_RI	0.0375			\$0.0	\$0.0	0			
Weapons Technology Research	33416 USN	NAVJUNSEAWARCENDIV_NEWPORT_RI West Palm Beach	0.0375			\$0.0	\$0.0	0			

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TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT - Military Value and Capacity Data

Weapons Technology T&E

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Weapons Technology T&E	93555 USN	USN_2_China Lake	0.6433	1,150	1,064,094	\$165,837.2	\$0.0	0	109,930	52,796	41,296
Weapons Technology T&E	93042 USN	USN_2_Pt Mugu NAVUNSEAWARCENDIV_KEYPORT_WA	0.5239	1,138	116,040	\$258,183.5	\$0.0	0	17,439	22,039	20,149
Weapons Technology T&E	98345 USN	Keyport	0.4580	390	331,741	\$48,927.5	\$0.0	0	31,135	32,820	92,906
Weapons Technology T&E	20670 USN	USN_8_Pax	0.3579	117	13,308	\$18,750.3	\$0.0	0	4,130	4,530	5,420
Weapons Technology T&E	22448 USN	NAVSURFWARCENDIV_DAHLGREN_VA	0.3141	27	238,786	\$11,161.2	\$0.0	0	66,620	8,240	16,977
Weapons Technology T&E	47522 USN	NAVSURFWARCENDIV_CRANE_IN	0.3099	128	216,232	\$12,504.2	\$0.0	0	49,864		31,110
Weapons Technology T&E	92878 USN	NAVSURFWARCENDIV_CORONA_CA	0.2672	137	20,617	\$16,029.4	\$0.0	0	3,120		11,529
Weapons Technology T&E	20640 USN	USN_3_Indian Head	0.2624	125	64,070	\$15,378.0	\$0.0	0	12,028	2,731	4,591
Weapons Technology T&E	23461 USN	USN_3_VABEACH	0.2394	37	3,874	\$5,319.0	\$0.0	0		3,679	1,700
Weapons Technology T&E	02841 USN	COMNAVUNSEAWARCEN_NEWPORT_RI	0.2390	178	10,714	\$24,856.1	\$0.0	0	6,770	997	4,289
Weapons Technology T&E	32407 USN	USN_2_Pannama City NAVUNSEAWARCENDIV_KEYPORT_WA	0.2300	65	12,967	\$3,444.9	\$0.0	0	11,293	101	1,626
Weapons Technology T&E	96792 USN	Waianae	0.2096	89	43,268	\$11,732.3	\$0.0	0	1,217	692	18,263
Weapons Technology T&E	93043 USN	USN_3_Port Hueneme	0.2073	81	7,768	\$13,087.5	\$0.0	0	24,461	3,500	911
Weapons Technology T&E	88002 USN	WHITE SANDS MISSILE RANGE	0.2031	71	112,894	\$11,342.8	\$0.0	0	3,545	7,481	5,898
Weapons Technology T&E	92152 USN	USN_4_San Diego	0.1983	60	23,048	\$7,831.5	\$0.0	0	29,464	24,383	7,901
Weapons Technology T&E	92028 USN	NAVSURFWARCENDIV_CRANE_IN Fallbrook NAVSURFWARCENDIV_INDIAN_HEAD_MD	0.1940	100	28,757	\$15,163.5	\$0.0	0	4,764		3,536
Weapons Technology T&E	90740 USN	Seal Beach PACMISRANFAC_HAWAREA_BARKING_SAND	0.1881	17	28,319	\$4,691.6	\$0.0	0	3,120	3,120	6,240
Weapons Technology T&E	96752 USN	S_HI KEKAHA SURFCOMBATSYSCEN_WALLOPS_ISLAND_V	0.1774	3	18,225	\$1,079.7	\$0.0	0	31		
Weapons Technology T&E	23337 USN	A NAVUNSEAWARCENDIV_KEYPORT_WA San	0.1770	53		\$5,905.2	\$0.0	0	2,922	25,970	3,335
Weapons Technology T&E	92123 USN	Diego	0.1691	10	22,451	\$1,311.3	\$0.0	0	5,091	1,929	10,542
Weapons Technology T&E	22134 USN	USN_2_Quantico	0.1591	20	1,950	\$2,735.5	\$0.0	0			
Weapons Technology T&E	20376 USN	USN_3_WNY	0.1492	2	112	\$741.9	\$0.0	0			
Weapons Technology T&E	23691 USN	USN_3_Yorkstown	0.1452	14	19,662	\$1,607.6	\$0.0	0			3,120
Weapons Technology T&E	33040 USN	USN_3_Key West	0.1311		289	\$0.0	\$0.0	0			
Weapons Technology T&E	22217 USN	OFFICE OF NAVAL RESEARCH	0.1305	1		\$1,876.4	\$0.0	0			
Weapons Technology T&E	23505 USN	COMOPTEVFOR_NORFOLK_VA	0.1207	52		\$4,724.4	\$0.0	0			
Weapons Technology T&E	07722 USN	Colts Neck	0.1198	2		\$190.2	\$0.0	0	3,120		
Weapons Technology T&E	37389 USN	Arnold AFS NAVSURFWARCENDIV_PORT_HUENEME_CA	0.1130	0		\$3.6	\$0.0	0			
Weapons Technology T&E	40214 USN	Louisville	0.1020			\$0.0	\$0.0	0	11,940		
Weapons Technology T&E	02840 USN	COMNAVUNSEAWARCEN_NEWPORT_RI COMNAVAIRSYSCOM_PATUXENT_RIVER_MD	0.0961			\$0.0	\$0.0	0			
Weapons Technology T&E	22205 USN	Arlington NAVUNSEAWARCENDIV_NEWPORT_RI West	0.0955			\$0.0	\$0.0	0			
Weapons Technology T&E	33416 USN	Palm Beach	0.0955			\$0.0	\$0.0	0			

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TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs
from NSWC PC to NUWC NPT

Capacity Analysis

All Dept of Navy Weapons RDATE&E

		Current Average	Peak	Required	Excess
Research					
	Funding \$K	\$2,286,914	\$2,677,098	\$2,668,829	\$8,270
	FTEs	4,381	5,297	5,113	184
	Building Use	657,195	794,530	766,947	27,583
	Equipment Use	147,275	1,028,883	171,870	857,013
	Facility Use	204,396	864,062	238,530	625,532
D&A					
	ACAT Funding \$K	\$12,065,030	\$15,564,328	\$12,873,387	\$2,690,942
	Number of ACATs	191	217	203	14
	FTEs	26,806	30,680	28,602	2,078
	Building Use	4,020,921	4,602,050	4,290,323	311,727
	Equipment Use	326,395	1,496,698	348,263	1,148,435
	Facility Use	460,789	1,181,519	491,662	689,857
T&E					
	Non-OAR Test Hours	774,038	1,037,761	906,398	131,363
	OAR TEST Hours			0	0
	FTEs	12,602	15,549	14,757	792
	Building Use	1,890,309	2,332,379	2,213,552	118,827
	Equipment Use	438,727	1,771,264	513,750	1,257,514
	Facility Use	557,413	1,259,382	652,731	606,652

TECH 28 – Relocate Underwater Weapons and System Integration,
MIW, & UUVs from NSWC PC to NUWC NPT

Criteria 5-8 Summary

Criteria #	Criteria Subject	Assessment	Comments
5	COBRA – Cost/Savings	ROI Savings/ (Cost) - TBD	
6	Economic Impact	% of economy - TBD	
7	Community Impact	Go	No Issues
8	Environmental Impact	Go	No Issues

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Decision Factors

DECISION FACTORS	RATING	COMMENT
1 Climate/Terrain	Y	Need to create a non-magnetic area. Moderate risk
2 Buildable Land		One-eighty-one acres of buildable land available.
3 Licenses/Permits		No impediment seen to obtaining necessary permissions.
4 Existing Infrastructure	Y	Facilities and location for Air Operations not identified.
5 Cost/Feasibility of Move	Y	Variable based on sq ft closed.
6 Reduces Infrastructure Redundancy		20% has to remain to support other functions. 80% has to be duplicated.
7 Intellectual Capital		Can be obtained by FY11.
8 Infrastructure Redundancy	Y	Limited for management support function only.
9 Dual Site Capability		Dual site capability not required..
10 Tech Capability/Function DoD Synergy		Yes for UUV, Limited for Technical, Decrease for jointness
11 Leverages External Agencies	Y	Yes for Contractors; No for Government
12 Collocation with Operational Forces		Will be further apart
13 Enhances Rapid Response	Y	No change
14 Recognizes Major Contributors	Y	No change
15 Transformative	Y	No change

CANDIDATE SCENARIO ANALYSIS WORKSHEET

SCENARIO: Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC NPT TECH-_0028

If this scenario is enacted:

1. The following technical installations could fully close: None

2. All technical capability may be moved from this location: None

3. Some technical activities may be realigned:
 - ONI UUV development and operational efforts
 - All MIW RDATE&E including organic MCM
 - All Mine RDATE&E
 - All management and support functions associated with the above

TECH 28 — Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Linear Optimization Model Results

- The Weapons DTAP does not differentiate between undersea and other weapons functions. Therefore, Scenario 28 focus (undersea weapons) is difficult to evaluate given other types of weapons capacity in both the DoD or Navy.
- Both the losing and gaining sites are very sensitive to requirement growth and expansion, with the receiving site slightly favored.

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Issues and Concerns

- Adequate facilities for air operations RDAT&E must be determined, including a beddown site for Mine Warfare Helicopters-- Analysis pending
- The undersea vehicles capabilities and functions at NUWCNPT and NSWCPC are not redundant but are complementary. Warfare Center Product Area Directors and the work assignment process assures no duplicative efforts
- Does not account for loss in real time support to the Fleet during the introduction of the emerging Organic MCM systems
- Loss of synergy between RDA and Fleet training for MIW
- Proposed relocation of non-magnetic test facility to Fishers Island will lead to test inefficiency due to site limitations compare to Gulf Coast ranges

TECH 28 — Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

8 Final Selection Criteria

- 1) **Impact on Operational Capability** - Six new MCM systems will be introduced to the fleet during the time frame for implementing BRAC FY05. Engineering and management personnel at Panama City serve as the TDA for these systems and support the acquisition, test and evaluation for PEO (LMW). Introduction of these systems to the fleet will be impacted. Training for the operational forces on these systems will be impacted as the distance between RDA engineers to the operations test range will increase.
- 2) **Suitability of Facilities** - Air Operations receiving site has not been identified and is a major issue. The remaining Gulf Test Range will provide the necessary underwater environment. Split site operations will continue
- 3) **Operational surge capacity** – No Issues
- 4) **Cost** – More data is needed relative to the per-cent of square footage that will be “closed” when the transition is accomplished
- 5) **Payback** – TBD
- 6) **Community impact** – TBD
- 7) **Community support** – Gaining community can provide adequate housing and support.
- 8) **Environmental Impact** - No adverse impact

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Decision Factors

1. Does the gaining location possess “required” terrain/climate characteristics that are required for the proposal?

- The gaining activity will need to create a non-magnetic and measurement area.
- The gaining activity will need an A-I ocean bottom type environment for sonar testing unless they use NSWCPC range. A-1 bottoms may not be available vic Newport

2. Does the gaining location have sufficient “buildable land” to support the proposal, if necessary?

- Evidence shows that sufficient buildable land exists at the gaining location to support the proposal.
- The gaining activity has 181 unconstrained acres.

3. Does the gaining location have or can obtain necessary licenses and/or permits?

- The gaining activity would need to obtain licenses/permits to perform tests with helicopters.

4. Can the gaining location support the proposal within its existing physical structure and equipment?

- Evidence shows that the gaining location cannot support the proposal within the existing physical structure and equipment. New and refurbished buildings for personal and testing will be required.
- Air Operation Facilities have not been identified.

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Decision Factors

5. Does the proposal require moving physical structures(s) or equipment that is extremely costly or impossible to move? The following presents a list of equipment and physical structures

- Physical Structure(s):
 - Expensive
 - » Helmholtz Coil Facility – Magnetic field measurements
 - Impossible:
 - » Non magnetic skiff - , needs to be reconstructed
- Equipment
 - Expensive
 - » AN/SQQ-32, AN SSN 2(V) Pins, AN/ SSQ 94 test and development facility,
 - » Air Gun Test Equipment

6. Does this proposal decrease unwanted redundancy of physical structure and equipment?

- While some of the physical structures such as shops are redundant with those possessed by the receiving activity, most of the physical structures and equipment is unique to the mission areas that are performed at the losing activity. This would necessitate moving or reconstructing the majority of this equipment to the receiving location. Eighty percent of the equipment, including helicopters has to be moved.

7. Does the gaining location have or can it obtain the required intellectual capital within the BRAC implementation period?

- Within the time frame (FY06 – FY11) the gaining activity will be able to obtain the required intellectual capital.

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Decision Factors

- 8. Does this proposal decrease unwarranted redundancy of technical personal and/or reduce management overhead?**
- Technical – Performance of the MIW and UUV missions would require a complete transition of those personal performing those missions to the gaining site.
 - Management – Limited reduction for support functions may be realized. Program and Line Management and direct services will require the same number of personal to perform the new mission areas at the receiving activity.
- 9. Does this proposal maintain at least two sources of intellectual capital where warranted?**
- MIW and UUV missions for the Navy are both mission essential and relatively new. The short term reduction of the intellectual capital caused by a transition of personal/expertise from the losing activity would result a decrease in intellectual capacity to the Navy in the near term. Maintenance of two sources not warranted.
- 10. Does this proposal increase the synergy between functions and/or across technical capability areas and/or increase jointness?**
- Synergy between functions
 - There would be a increase in synergy between the underwater vehicle programs:
 - Synergy across technical capability
 - Limited, if any increase
 - Synergy in Jointness
 - Synergy between the Navy and Marines at the present location would decrease.

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Decision Factors

11. **Does the proposal leverage the technical capabilities of other government activities or the private sector within 60 miles of the gaining activity?**
 - There would be some technical capabilities that could be utilized from the private sector but limited from the government activities

12. **Does this proposal collocate technical facilities w/mission-related operational forces?**
 - No. It increases the separation distance and eliminates/decreases direct support to fleet training exercises or operational workups that currently exist.

13. **Does this proposal enhance capabilities delivered in rapid response to meet operational deficiencies?**
 - No change.

14. **Does this proposal enhance those technical facilities that provide the preponderance of the functional outputs to operational customer, i.e. 80/20 guideline?**
 - No change

15. **Is this proposal transformative?**
 - No change

TECH 28 – Relocate Underwater Weapons and System Integration, MIW, & UUVs from NSWC PC to NUWC Newport

Summary

- Mine Warfare Helicopter beddown site is the major issue remaining – analysis pending
- COBRA analysis is needed
- This scenario is feasible based solely upon decision factors.
- Significant loss of synergy between and among RDAT&E resources and operational forces

TECH 28 – Relocate Underwater Weapons and System Integration,
MIW, & UUVs from NSWC PC to NUWC Newport

Potential Excursion on Scenario

- Retain T&E Facilities at NSWCPC
- Retain MIW capability in PC
- Retain present ONI Sponsored Programs at PC

TECH 31 – Optimize Sea Vehicle R,D,A,T&E Summary

Action 1) This scenario is not technically feasible because there does not appear to be a suitable location for the SDVs, LCACs, and their support equipment.

Action 3) Feasible

Action 4) Feasible

Action 5) Feasible

- COBRA analysis is needed

TAB 2

Candidate # TECH-0031

Candidate Recommendation: Optimize Sea Vehicle R,D,A,T&E

Realign NSWC Panama City by relocating Sea Vehicles RDAT&E to NSWC Carderock, MD.
 Realign NAS Patuxent River by relocating Sea Vehicle T&E to NSWC Carderock, MD
 Realign Naval Base Ventura County (Port Hueneme) by relocating Sea Vehicle D&A to NSWC Ship Systems Engineering Station, Phila, PA.
 Realign Detroit Arsenal by relocating Sea Vehicle RDAT&E to NSWC Division Carderock, MD.
 Realign Detroit Arsenal by relocating the Program Management function of Sea Vehicle RDAT&E to COMNAVSEASYSKOM

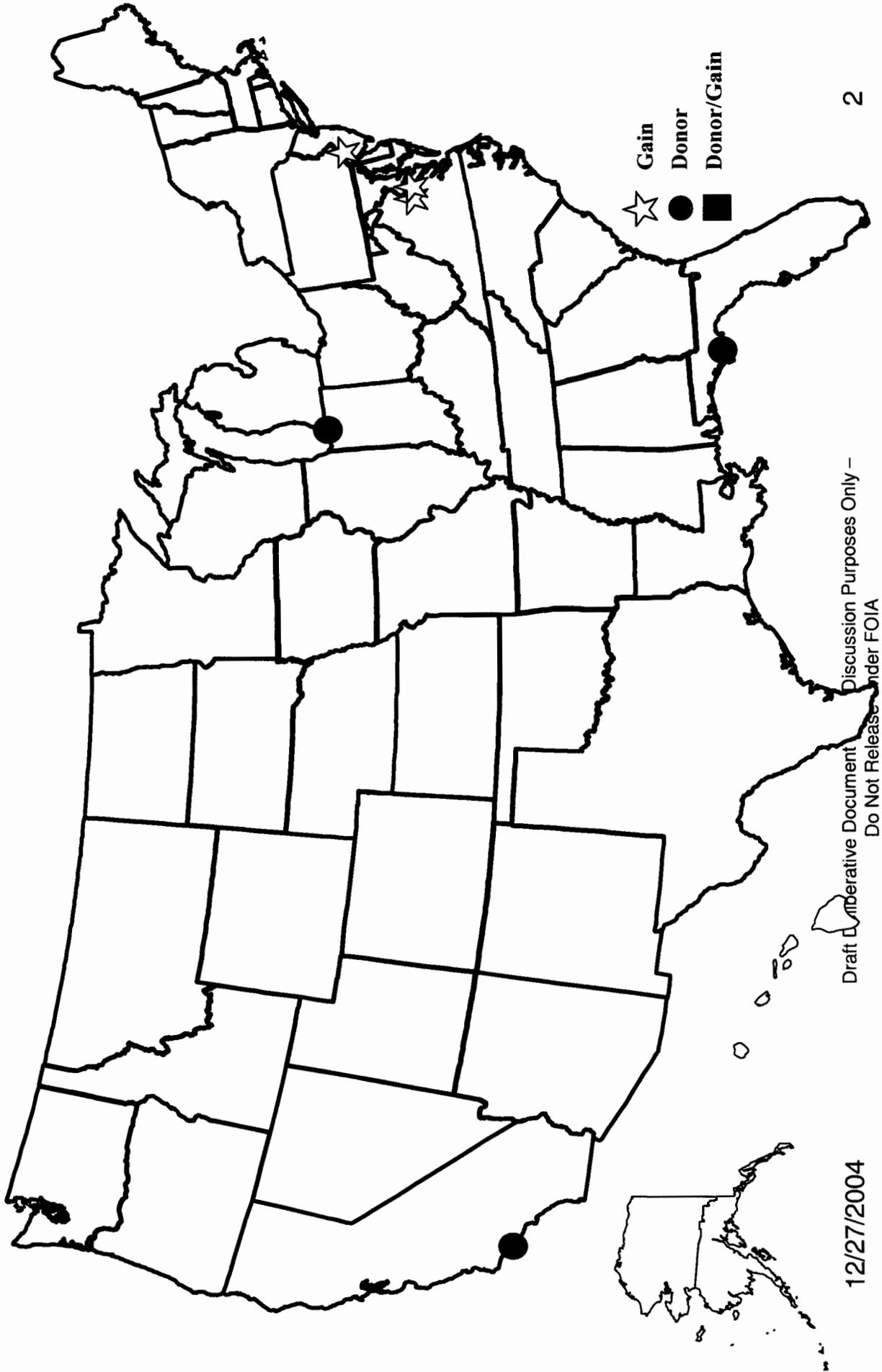
<p style="text-align: center;"><u>Justification</u></p> <ul style="list-style-type: none"> • Provide greater synergy across Sea Vehicle RDAT&E • Reduce duplicative efforts • Provide consolidated centers of mass for Sea Vehicles RDAT&E • Increase effectiveness and efficiencies 	<p style="text-align: center;"><u>Military Value</u> (R/D&A/T&E)</p> <ul style="list-style-type: none"> • NSWC Carderock .69/.58/.7 • NSWC Panama City .21/.32/.24 • NSWC Port Hueneme na/.16/na • NAVSEA HQ Na/.49/na • NSWC Carderock, PHIL na/.51/na <ul style="list-style-type: none"> • Military Judgment was applied and rational for conclusions are provided
<p style="text-align: center;"><u>Payback</u></p> <ul style="list-style-type: none"> • Payback period – TBD years (Requires COBRA analysis) • One time cost - \$ TBD • Steady state annual savings - \$ TBD 	<p style="text-align: center;"><u>Impacts</u></p> <ul style="list-style-type: none"> • Criteria 6 – TBD • Criteria 7 – No impact • Criteria 8 - No impact

- Strategy
 Capacity Analysis / Data Verification
 JCSG/MilDep Recommended
 De-conflicted w/JCSGs
 COBRA
 Military Value Analysis / Data Verification
 Criteria 6-8 Analysis
 De-conflicted w/MilDeps
 Legal Review

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TECH 31 – Optimize Sea Vehicle R,D,A,T&E



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TECH 31 – Optimize Sea Vehicle R,D,A,T&E

Military Value and Capacity Data

Sea Vehicles D&A

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Sea Vehicles D&A	20817 USN	NAVSURFWARCEN_CARDEROCKDIV_BETHE SDA_MD	0.5257	1,204	222,141	\$232,637.2	\$86,691.8	6		19,850	63,614
Sea Vehicles D&A	19112 USN	NAVSURFWARCENSHIPSYSSENGSTA_PHILAD ELPHIA_PA	0.4983	845	225,739	\$226,991.9	\$69,639.4	10		22,206	14,254
Sea Vehicles D&A	20376 USN	USN_3_WNY	0.4930	2,263	201,894	\$15,300,599.5	\$4,075,451.1	20			10,920
Sea Vehicles D&A	20670 USN	USN_8_Pax	0.2989	24	5,184	\$6,678.6	\$67,410.2	2		5,443	3,786
Sea Vehicles D&A	32407 USN	USN_2_Pannama City	0.2969	286	63,603	\$77,265.3	\$6,443.8	2		1,256	6,631
Sea Vehicles D&A	20375 USN	Naval Research Laboratory Washington DC NAVSURFWARCEN_CARDEROCKDIV_BETHE	0.2847	1	2,402	\$262.3	\$0.0	0		146	3,447
Sea Vehicles D&A	83803 USN	SDA_MD Bayview	0.1795	79		\$8,682.8	\$0.0	0			3,742
Sea Vehicles D&A	98314 USN	USN_2_Bremerton	0.1755	42		\$7,425.6	\$0.0	0			
Sea Vehicles D&A	22217 USN	OFFICE OF NAVAL RESEARCH NAVSURFWARCEN_CARDEROCKDIV_BETHE	0.1743	23		\$69,083.0	\$0.0	0			
Sea Vehicles D&A	33004 USN	SDA_MD Dania	0.1666	16		\$1,537.9	\$0.0	0			
Sea Vehicles D&A	38113 USN	NSWC CARDEROCK DIV DET MEMPHIS TN	0.1660	26		\$459.6	\$0.0	0			
Sea Vehicles D&A	93043 USN	USN_3_Port Hueneme	0.1557	64	15,053	\$15,828.8	\$0.0	0		11,223	3,339
Sea Vehicles D&A	23461 USN	USN_3_VABEACH	0.1405	33	1,467	\$8,398.3	\$0.0	0			4,680
Sea Vehicles D&A	23521 USN	USN_2_Norfolk	0.1392	101		\$22,866.3	\$0.0	0		133	
Sea Vehicles D&A	92878 USN	NAVSURFWARCENDIV_CORONA_CA	0.1383	8	790	\$817.6	\$0.0	0			
Sea Vehicles D&A	22448 USN	NAVSURFWARCENDIV_DAHLGREN_VA	0.1300	9	93	\$4,110.0	\$0.0	0			6,799
Sea Vehicles D&A	02841 USN	COMNAVUNSEAWARCEN_NEWPORT_RI NAVUNSEAWARCENDIV_KEYPORT_WA San	0.1200			\$0.0	\$0.0	0			
Sea Vehicles D&A	92123 USN	Diego NAVUNSEAWARCENDIV_KEYPORT_WA	0.1200			\$0.0	\$0.0	0			
Sea Vehicles D&A	96792 USN	Waianae NAVUNSEAWARCENDIV_KEYPORT_WA	0.1200			\$0.0	\$0.0	0			
Sea Vehicles D&A	98345 USN	Keyport	0.1200			\$0.0	\$0.0	0			
Sea Vehicles D&A	92152 USN	USN_4_San Diego	0.0957	12		\$2,294.0	\$0.0	0			
Sea Vehicles D&A	37389 USN	Arnold AFS	0.0928	0		\$1.3	\$0.0	0			
Sea Vehicles D&A	36615 USN	NRL_WASHINGTON_DC Mobile	0.0820		348	\$0.0	\$0.0	0			600
Sea Vehicles D&A	93042 USN	USN_2_Pt Mugu	0.0783			\$0.0	\$0.0	0			
Sea Vehicles D&A	22134 USN	USN_2_Quantico	0.0735			\$0.0	\$277.2	1			
Sea Vehicles D&A	33040 USN	USN_3_Key West	0.0585			\$0.0	\$0.0	0			5,960
Sea Vehicles D&A	20732 USN	NRL Chesapeake Bay Detachment	0.0585			\$0.0	\$0.0	0			633
Sea Vehicles D&A	23460 USN	USN_2_VABEACH.	0.0578			\$0.0	\$0.0	0			
Sea Vehicles D&A	39529 USN	NRL Detachment Stennis Space Ctr	0.0577			\$0.0	\$0.0	0			

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TECH 31 – Optimize Sea Vehicle R,D,A,T&E

Military Value and Capacity Data

Sea Vehicles Research

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Sea Vehicles Research	20817 USN	NAVSURFWARCEN_CARDEROCKDIV_BETHE SDA_MD	0.6893	309	103,362	\$57,582.5	\$0.0	0		10,797	63,614
Sea Vehicles Research	22217 USN	OFFICE OF NAVAL RESEARCH	0.3723	105		\$236,327.4	\$0.0	0			
Sea Vehicles Research	20375 USN	Naval Research Laboratory Washington DC NAVSURFWARCENSHIPSYSSENGSTA_PHILAD	0.3688	3	1,452	\$400.3	\$0.0	0		106	6,744
Sea Vehicles Research	19112 USN	ELPHIA_PA	0.3676	112	66,219	\$13,851.1	\$0.0	0		3,331	3,092
Sea Vehicles Research	20670 USN	USN_8_Pax	0.2719	7	2,522	\$1,565.0	\$0.0	0		531	860
Sea Vehicles Research	32407 USN	USN_2_Pannama City	0.2114	52	3,153	\$14,348.6	\$0.0	0		218	361
Sea Vehicles Research	83803 USN	NAVSURFWARCEN_CARDEROCKDIV_BETHE SDA_MD Bayview	0.1627	20	7,350	\$2,198.3	\$0.0	0		2,088	7,484
Sea Vehicles Research	38113 USN	NSWC CARDEROCK DIV DET MEMPHIS TN NAVSURFWARCEN_CARDEROCKDIV_BETHE	0.1614	5	120,877	\$115.1	\$0.0	0		675	3,742
Sea Vehicles Research	33004 USN	SDA_MD Dania	0.1537	4	5,289	\$379.0	\$0.0	0			
Sea Vehicles Research	93943 USN	NAVPGSCOL_MONTEREY_CA	0.1447	7	3,203	\$1,090.1	\$0.0	0		2,500	2,500
Sea Vehicles Research	23461 USN	USN_3_VABEACH	0.1426	3	206	\$377.1	\$0.0	0			
Sea Vehicles Research	22448 USN	NAVSURFWARCENDIV_DAHLGREN_VA	0.1214	12	40	\$2,996.2	\$0.0	0			6,799
Sea Vehicles Research	22130 USN	Marine Corps Warfighting Laboratory	0.1167	2	190	\$190.6	\$0.0	0			
Sea Vehicles Research	98314 USN	USN_2_Bremerton	0.1144	11		\$1,859.0	\$0.0	0			
Sea Vehicles Research	23521 USN	USN_2_Norfolk	0.1057	26		\$5,594.4	\$0.0	0		556	
Sea Vehicles Research	93043 USN	USN_3_Port Hueneme CNR_ARLINGTON_VA ATLANTA REGIONAL	0.1043	3	1,132	\$1,294.4	\$0.0	0			840
Sea Vehicles Research	30303 USN	OFFICE	0.0746		1,040	\$0.0	\$0.0	0			
Sea Vehicles Research	02841 USN	COMNAVUNSEAWARCEN_NEWPORT_RI NAVUNSEAWARCENDIV_KEYPORT_WA San	0.0700			\$0.0	\$0.0	0			
Sea Vehicles Research	92123 USN	Diego	0.0700			\$0.0	\$0.0	0			
Sea Vehicles Research	96792 USN	NAVUNSEAWARCENDIV_KEYPORT_WA Waianae	0.0700			\$0.0	\$0.0	0			
Sea Vehicles Research	98345 USN	Keyport	0.0700			\$0.0	\$0.0	0			
Sea Vehicles Research	93042 USN	USN_2_Pt Mugu	0.0662			\$0.0	\$0.0	0			
Sea Vehicles Research	92152 USN	USN_4_San Diego	0.0636	2		\$329.5	\$0.0	0			
Sea Vehicles Research	37389 USN	Arnold AFS	0.0630	0		\$0.6	\$0.0	0			
Sea Vehicles Research	39529 USN	NRL Detachment Stennis Space Ctr	0.0445			\$0.0	\$0.0	0		333	2,100
Sea Vehicles Research	20732 USN	NRL Chesapeake Bay Detachment	0.0367			\$0.0	\$0.0	0			1,000
Sea Vehicles Research	20376 USN	USN_3_WNY	0.0366	0		\$0.0	\$0.0	0			
Sea Vehicles Research	33040 USN	USN_3_Key West	0.0364			\$0.0	\$0.0	0			5,360
Sea Vehicles Research	36615 USN	NRL_WASHINGTON_DC Mobile	0.0360			\$0.0	\$0.0	0			720

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TECH 31 – Optimize Sea Vehicle R,D,A,T&E

Military Value and Capacity Data

Sea Vehicles T&E

Bin	ORGCODE Question	Main Org	MilVal	FTEs	Square Feet	Funding	ACAT Funding	ACAT Programs	Test Hours	Equipment Used	Facility Hrs Used
Sea Vehicles T&E	19112 USN	NAVSURFWARCENSHIPSSENGSTA_PHILAD ELPHIA_PA	0.8152	866	358,437	\$229,350.9	\$0.0	0	26,556	24,558	16,742
Sea Vehicles T&E	20817 USN	NAVSURFWARCEN_CARDEROCKDIV_BETHE SDA_MD	0.6964	235	349,907	\$44,319.6	\$0.0	0	30,739	12,514	63,614
Sea Vehicles T&E	20670 USN	USN_8_Pax NAVSURFWARCEN_CARDEROCKDIV_BETHE	0.4002	57	8,814	\$9,600.8	\$0.0	0	19,321	10,530	7,334
Sea Vehicles T&E	83803 USN	SDA_MD Bayview	0.2998	16	71,323	\$1,698.2	\$0.0	0	5,845	23,480	7,484
Sea Vehicles T&E	98314 USN	USN_2_Bremerton NAVSURFWARCEN_CARDEROCKDIV_BETHE	0.2787	9	58,535	\$1,432.9	\$0.0	0	1,180	1,552	3,742
Sea Vehicles T&E	33004 USN	SDA_MD Dania	0.2651	3	6,374	\$293.0	\$0.0	0	2,716	744	3,742
Sea Vehicles T&E	38113 USN	NSWC CARDEROCK DIV DET MEMPHIS TN	0.2490	4	83,999	\$88.8	\$0.0	0	1,215	540	3,742
Sea Vehicles T&E	32407 USN	USN_2_Pannama City	0.2350	30	1,832	\$2,089.5	\$0.0	0	3,283	312	1,928
Sea Vehicles T&E	92878 USN	NAVSURFWARCENDIV_CORONA_CA	0.2004	46	6,197	\$6,169.0	\$0.0	0			3,120
Sea Vehicles T&E	23505 USN	COMOPTEVFOR_NORFOLK_VA	0.1769	64	2,028	\$6,721.9	\$0.0	0			8,760
Sea Vehicles T&E	92152 USN	USN_4_San Diego	0.1736		0	\$0.0	\$0.0	0			
Sea Vehicles T&E	23521 USN	USN_2_Norfolk PACMISRANFAC_HAWAREA_BARKING_SAND	0.1682	19		\$4,390.4	\$0.0	0		719	
Sea Vehicles T&E	96752 USN	S_HI KEKAHA	0.1530	26		\$6,296.5	\$0.0	0	1,439	607	
Sea Vehicles T&E	02841 USN	COMNAVUNSEAWARCEN_NEWPORT_RI NAVUNSEAWARCENDIV_KEYPORT_WA San	0.1500			\$0.0	\$0.0	0			
Sea Vehicles T&E	92123 USN	Diego NAVUNSEAWARCENDIV_KEYPORT_WA	0.1500			\$0.0	\$0.0	0			
Sea Vehicles T&E	96792 USN	Waianae NAVUNSEAWARCENDIV_KEYPORT_WA	0.1500			\$0.0	\$0.0	0			
Sea Vehicles T&E	98345 USN	Keyport	0.1500			\$0.0	\$0.0	0			
Sea Vehicles T&E	22134 USN	USN_2_Quantico	0.1399	1	1,320	\$96.6	\$0.0	0			
Sea Vehicles T&E	33040 USN	USN_3_Key West	0.1366	11	289	\$574.4	\$0.0	0			
Sea Vehicles T&E	22217 USN	OFFICE OF NAVAL RESEARCH	0.1075	2		\$1,756.6	\$0.0	0			
Sea Vehicles T&E	20375 USN	Naval Research Laboratory Washington DC	0.1075	0		\$9.1	\$0.0	0			
Sea Vehicles T&E	20376 USN	USN_3_WNY	0.1019	0		\$0.0	\$0.0	0			
Sea Vehicles T&E	37389 USN	Arnold AFS	0.0955	0		\$14.7	\$0.0	0			
Sea Vehicles T&E	93043 USN	USN_3_Port Hueneme	0.0946	0		\$46.6	\$0.0	0	2,277		
Sea Vehicles T&E	23461 USN	USN_3_VABEACH	0.0817			\$0.0	\$0.0	0	4,095		
Sea Vehicles T&E	93042 USN	USN_2_Pt Mugu	0.0716			\$0.0	\$0.0	0			
Sea Vehicles T&E	22448 USN	NAVSURFWARCENDIV_DAHLGREN_VA	0.0715			\$0.0	\$0.0	0			

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TECH 31 – Optimize Sea Vehicle R,D,A,T&E

OSD Sea Vehicles Capacity Analysis

		Current Average	Peak	Required	Excess
Research					
	Funding \$K	\$379,323	\$457,337	\$529,536	(\$72,198)
	FTEs	694	823	969	(145)
	Building Use	104,093	123,509	145,314	(21,805)
	Equipment Use	21,141	989,067	29,513	959,554
	Facility Use	105,258	628,396	146,940	481,456
D&A					
	ACAT Funding \$K	\$4,305,913	\$4,381,837	\$5,261,826	(\$879,990)
	Number of ACATs	41	61	50	11
	FTEs	5,041	5,488	6,160	(672)
	Building Use	756,178	823,269	924,050	(100,781)
	Equipment Use	60,258	1,014,221	73,636	940,585
	Facility Use	128,416	648,941	156,925	492,016
T&E					
	Non-OAR Test Hours	99,542	111,806	130,002	(18,197)
	OAR TEST Hours			0	0
	FTEs	1,411	1,524	1,842	(318)
	Building Use	211,594	228,602	276,342	(47,740)
	Equipment Use	76,479	1,173,930	99,881	1,074,049
	Facility Use	120,863	460,306	157,847	302,459

TECH 31 – Optimize Sea Vehicle R,D,A,T&E

Criteria 5-8 Summary

Criteria #	Criteria Subject	Assessment	Comments
5	COBRA -- Cost/Savings	ROI Savings/(Cost) - TBD	
6	Economic Impact	% of economy - TBD	
7	Community Impact	Go	No Issues
8	Environmental Impact	Go	No Issues

TECH 31 – Optimize Sea Vehicle R,D,A,T&E

Decision Factors

DECISION FACTORS	RATING	COMMENT
1 Climate/Terrain		Action 1 - Salt water access not available
2 Buildable Land		Action 1 – Insufficient land at receiver site
3 Licenses/Permits		
4 Existing Infrastructure		Need MILCON and site for LCACs and SDVs.
5 Cost/Feasibility of Move	Y	
6 Reduces Infrastructure Redundancy	R	
7 Intellectual Capital		
8 Infrastructure Redundancy	Y	
9 Dual Site Capability		Dual site capability not required..
10 Tech Capability/Function DoD Synergy		Action 1 – Synergy removed at donor site
11 Leverages External Agencies	Y	Yes for Contractors; No for Government
12 Collocation with Operational Forces		Action 1 - Separates RDA from SDV Training Det and Expeditionary Forces
13 Enhances Rapid Response		Separates RDA from Test and Development asset
14 Recognizes Major Contributors	Y	No change
15 Transformative	Y	No change

CANDIDATE SCENARIO ANALYSIS WORKSHEET
SCENARIO: Optimize Sea Vehicle R,D,A,T&E - Tech 31

If this scenario is enacted:

1. The following technical installations could fully close: None

2. All technical capability may be moved from this location: None

3. Some technical activities may be realigned:
 - Detroit Arsenal
 - NSWC Port Hueneme
 - NSWC Panama City

TECH 31 – Optimize Sea Vehicle R,D,A,T&E Linear Optimization Model Results

- **Action 1** - There is no excess capacity of Sea vehicles at 100% capacity
- **Action 3** - Under reduced requirements, the LOM tends to favor Philadelphia
- **Action 4** - No LOM data for Detroit Arsenal
- **Action 5** - No LOM data for Detroit Arsenal

Tech 31 - 8 Final Selection Criteria

Action 1 Panama City Sea Vehicles to Carderock

- 1) **Impact on Operational Capability** – Separation of SDV ISEA function from the Fleet SDV training detachment causes loss of shared equipment to the Fleet. Movement of LCACs beyond tactical range to the fabrication shipyard complicates ISEA function, Fleet training, and delivery to the Fleet.
- 2) **Suitability of Facilities** – MILCON required to support RDA functions. Buildable area very limited. Location of T&E function, SDVs, LCACs, and support equipment is unidentified.
- 3) **Operational surge capacity** – Receiving location is unidentified. Its ability to support these functions is unknown. Losing activity currently supports these functions.
- 4) **Cost - TBD**
- 5) **Payback – TBD**
- 6) **Community impact – TBD**
- 7) **Community support** – Gaining community provides adequate housing and support.
- 8) **Environmental Impact** – No adverse impacts.

Tech 31 - 8 Final Selection Criteria

Action 3 – Port Hueneme Sea Vehicles to Philadelphia

- 1) **Impact on Operational Capability** – No change.
- 2) **Suitability of Facilities** – Facilities are suitable
- 3) **Operational surge capacity** – No change.
- 4) **Cost** – TBD
- 5) **Payback** – TBD
- 6) **Community impact** – TBD
- 7) **Community support** – Gaining community provides adequate housing and support.
- 8) **Environmental Impact** – No adverse impacts

Tech 31 - 8 Final Selection Criteria

Action 4 – Detroit Arsenal Sea Vehicle DA to Carderock

- 1) Impact on Operational Capability – No change**
- 2) Suitability of Facilities – Facilities are suitable**
- 3) Operational surge capacity – No change.**
- 4) Cost – TBD**
- 5) Payback – TBD**
- 6) Community impact – TBD**
- 7) Community support – Gaining community provides adequate housing and support.**
- 8) Environmental Impact – No adverse impacts**

Tech 31 - 8 Final Selection Criteria

Action 5 – Detroit Arsenal Sea Vehicle Program

Management to NAVSEA

- 1) Impact on Operational Capability – No change**
- 2) Suitability of Facilities – Facilities are suitable**
- 3) Operational surge capacity – No change**
- 4) Cost – TBD**
- 5) Payback – TBD**
- 6) Community impact – TBD**
- 7) Community support – Gaining community provides adequate housing and support.**
- 8) Environmental Impact – No adverse impacts**

Tech 31 - Optimize Sea Vehicle R,D,A,T&E

Decision Factors

1. **Does the gaining location possess “required” terrain/climate characteristics that are required for the proposal?**
 - Action 1 – No, salt water access needed. All other actions – Yes
2. **Does the gaining location have sufficient “buildable land” to support the proposal, if necessary?**
 - Action 1 – No. All other actions - Yes
3. **Does the gaining location have or can obtain necessary licenses and/or permits?**
 - All Actions – This does not appear to be an issue
4. **Can the gaining location support the proposal within its existing physical structure and equipment?**
 - Action 1 – No. All other actions – Yes.
5. **Does the proposal require moving physical structures(s) or equipment that is extremely costly or impossible to move? The following presents a list of equipment and physical structures**
 - All Actions - No
6. **Does this proposal decrease unwanted redundancy of physical structure and equipment?**
 - All Actions - No

Tech 31 - Optimize Sea Vehicle R,D,A,T&E

Decision Factors

7. **Does the gaining location have or can it obtain the required intellectual capital within the BRAC implementation period?**
 - All actions – Yes
8. **Does this proposal decrease unwarranted redundancy of technical personal and/or reduce management overhead?**
 - Action 5 – Yes All other actions – limited overhead reduction but none in the technical areas
9. **Does this proposal maintain at least two sources of intellectual capital where warranted?**
 - All actions – No, not required.
10. **Does this proposal increase the synergy between functions and/or across technical capability areas and/or increase jointness?**
 - Action 1 – No, there are no similar technical/mission areas at receiver site. This removes synergies at the donor site. All other actions - Yes
11. **Does the proposal leverage the technical capabilities of other government activities or the private sector within 60 miles of the gaining activity?**
 - Action 1 – No, there are no activities working in the same mission/technical are. All other actions – Yes
12. **Does this proposal collocate technical facilities w/mission-related operational forces?**
 - Actions 1 & 2 – No, it takes them away from operational forces proximity.
All other actions – No change

Tech 31 - Optimize Sea Vehicle R,D,A,T&E

Decision Factors

13. Does this proposal enhance capabilities delivered in rapid response to meet operational deficiencies?

- Action 1 – No, this decreases rapid response due to separation of response resources.
All other actions – No change

14. Does this proposal enhance those technical facilities that provide the preponderance of the functional outputs to operational customer, i.e. 80/20 guideline?

- All actions – No change

15. Is this proposal transformative?

- All actions - No

TECH 31 – Optimize Sea Vehicle R,D,A,T&E

Issues and Concerns

- This scenario may be technically feasible if a beddown site for LCAC and SDVs is determined – Analysis pending
- The undersea vehicles capabilities and functions at NSW CD and NSW CPC are not redundant but are complementary. Warfare Center Product Area Directors and the work assignment process assures no duplicative efforts
- Loss of synergy between RDA and Fleet training for Expeditionary Operations