

**DEPARTMENT OF THE INTERIOR (DOI)
MINERALS MANAGEMENT SERVICE (MMS)**

**OHMSETT
THE NATIONAL OIL SPILL RESPONSE TEST FACILITY
FY'96 REVIEW & FY'97 PLAN**

Presented by: MAR Incorporated

**December 1996
Herndon, VA**



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BACKGROUND

- History
- Current Project Organization
- Contract



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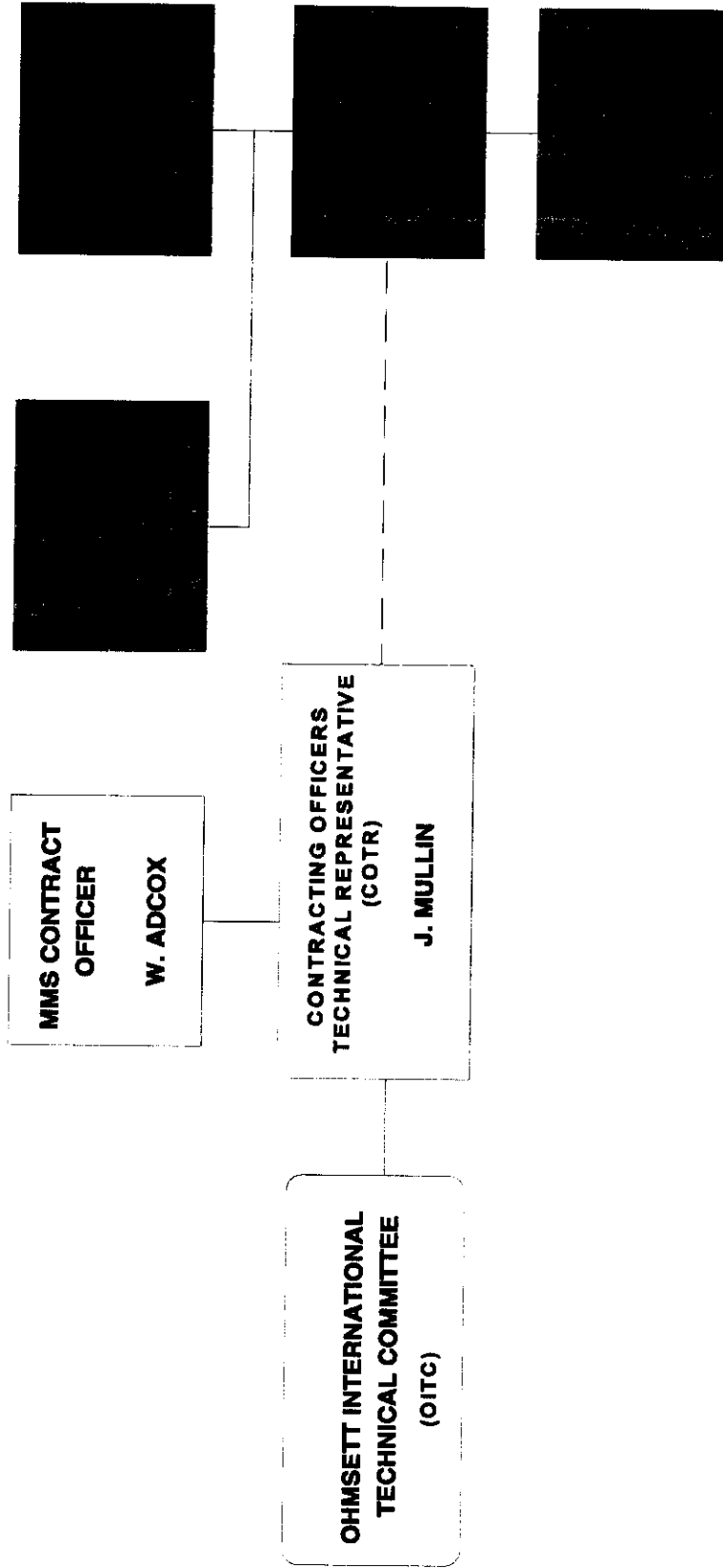
HISTORY

- FY'74 Ohmsett facility constructed by Environmental Protection Agency (EPA) at Naval Weapon Station (NWS) Earle.
- FY'74-88 Facility operated by EPA. September 30, 1988. Operations suspended indefinitely due to lack of funding.
- FY'89 U.S. Navy acquires facility.
- FY'90 Oil Pollution Act of 1990 mandates long term use and operation of Ohmsett. Minerals Management Service (MMS) charged with reactivating the facility. Carterock Division Naval Surface Warfare Center then David Taylor Research Center performs refurbishment.
- FY'92 MAR, Inc. wins competitive procurement to operate facility for MMS. Ohmsett sees 15 test days and \$141K revenue.
- FY'94 Ohmsett use expanded to accommodate a broad spectrum of new testing requirements for oil spill response technologies.
- FY'95 Ohmsett utilization grows to 80 test days and \$350K revenue.
- FY'96 Ohmsett utilization grows to 114 days and \$598K revenue. MAR Inc. wins competitive procurement to operate facility through September 30, 1997 with option through September 30, 2001.



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CURRENT PROJECT ORGANIZATION



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CONTRACT

ISSUING AGENCY Mineral Management Service

PRIME CONTRACTOR MAR, Inc.

SUB CONTRACTOR Chapman, Inc.

STRUCTURE

Cost Plus Fix Fee for Operations and Maintenance (O&M) Time and Materials (T&M) for test support portion

FY'96 O&M TOTALS Labor Hours 19,215
Dollars \$1,094 K

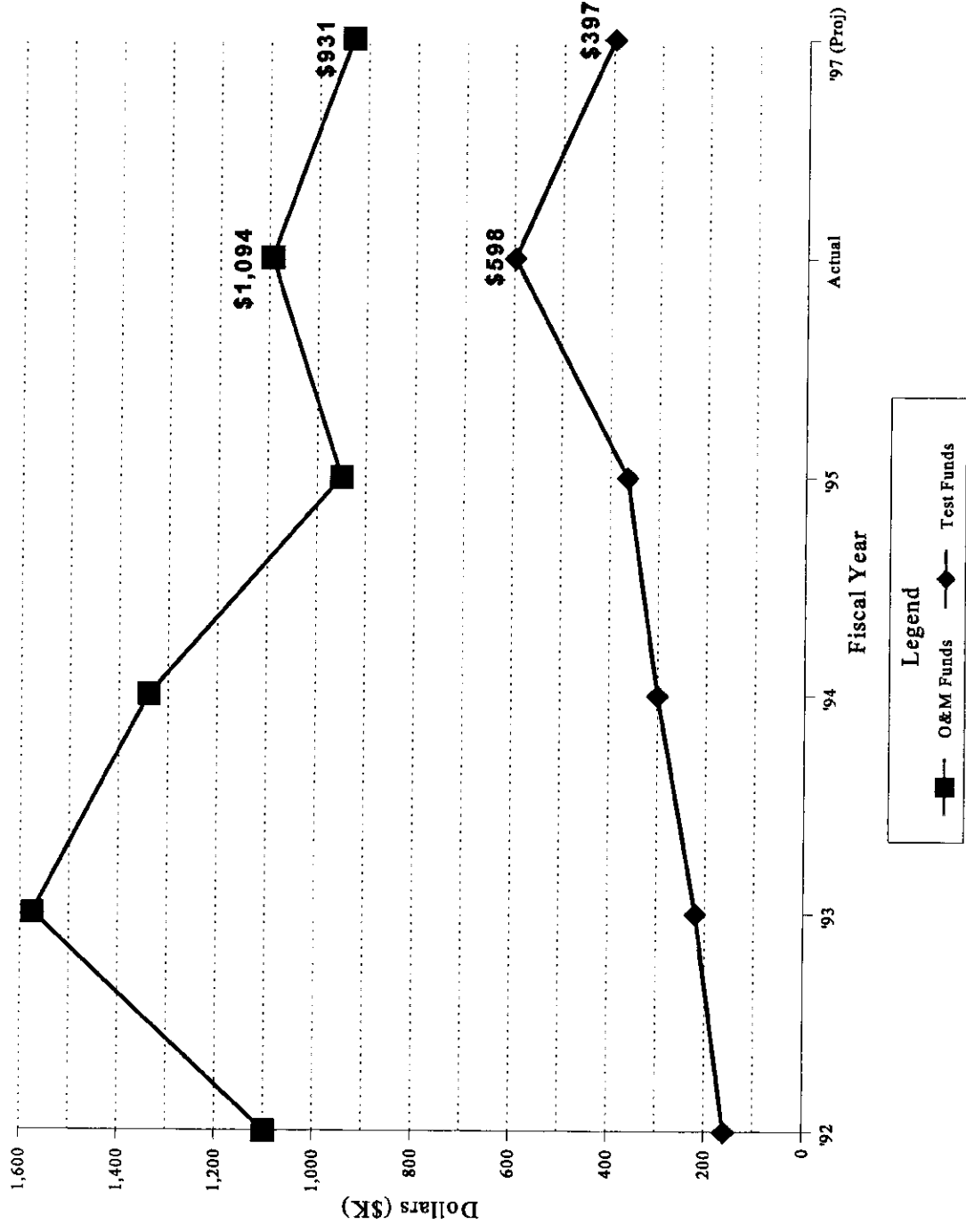
FY'96 T&M TOTALS Labor Hours 10,063
Dollars \$598 K

TOTAL CONTRACT Labor Hours 29,278
Dollars \$1,692 K



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CONTRACT HISTORY



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FY'96 REVIEW

- Major Accomplishments
 - O&M
 - T&M
- Increased Capabilities
- Test History
- Cost Summary
- Marketing



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FY'96 MAJOR ACCOMPLISHMENTS

- Operation and Maintenance
 - Major repairs (See following chart for details on repairs, upgrades, and capabilities)
 - Upgrades
 - Increased capabilities
 - Safety record

- Time and Materials
 - One hundred fourteen test days
 - Eight projects
 - Work Orders:
 - ✓ 17 Airborne Remote Sensing
 - ✓ 18 Comparative Evaluation of Spilled Oil Response Systems
 - ✓ 19 Fire Resistant Containment Boom Evaluations
 - ✓ 20 COV-400 Skimmer
 - ✓ 21 Canadian Sensor Flyover
 - ✓ 22 Frequency Scanning Radiometer
 - ✓ 23 Naval Weapons Station Oil Skimmer Training
 - ✓ 24 High Speed Skimmer Evaluations



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FY'96 Ohmsett Facility Operation and Maintenance

Task	Start	Wks	October	November	December	January	February	March	April	May	June	July	August	September
Operated basin filter sys.	10-1	52	█											
Lab containment area	10-2	1	█											
Parking lot repairs	10-9	1	█											
Heat tracing	10-16	1	█											
Vacuuming basin	10-23	1	█											
Haz. waste training	10-23	0.5	█											
Rebuilt work boat	10-30	1		█										
O & M Plan	11-2	1		█										
Mixing tank installed	11-6	2		█	█									
Repaired bathrooms	11-13	1		█										
Sewer and utilities	11-20	4		█	█									
Repaired step van	12-26	1			█									
Update Oil trans. sys.	1-2	4				█	█	█	█					
Prep area MB crane	2-5	1					█							
Mount crane on MB	2-12	1					█							
Install off loading pump	2-12	7					█	█	█	█	█	█	█	█
Install underwater camera	2-19	3					█	█	█					
Vacuuming basin	2-26	1					█							
Install decant pipe	3-4	1						█						
Repair vacuum head	3-11	1						█						
Relocate manifold air valve	3-18	1						█						
Rebuild (3) Viking pumps	4-1	2							█	█				
Returbish test oil	4-1	20												
Installed electrical noise filter	4-8	1												
Replaced N basin fire pump	4-15	1												
Upgraded computers	4-22	5												
Rebuilt diaphragm pump	5-6	3												
Repaired sluice tank mixer	6-3	1												
Calibrated instrumentation	7-1	1												
Painted oil tanks	7-1	4												
Replaced filter compressor	7-8	2												
Inspected hoist and cranes	7-22	2												
Replaced power cell filter	8-5	1												
Researched oil centrifuges	8-9	1												
Replaced silicon rectifiers	9-16	2												
Painted conex box	9-16	1												
Replaced wires to filter motor	9-23	1												



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FY'96 INCREASED CAPABILITIES

PERSONNEL All personnel received HAZWOPER 24/40 hrs., CPR, and First Aid training.

FACILITY SYSTEMS New filter compressor.

SUPPORT SYSTEMS Purchased and installed underwater camera.

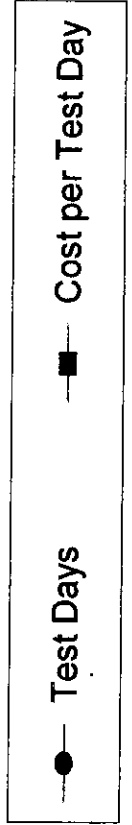
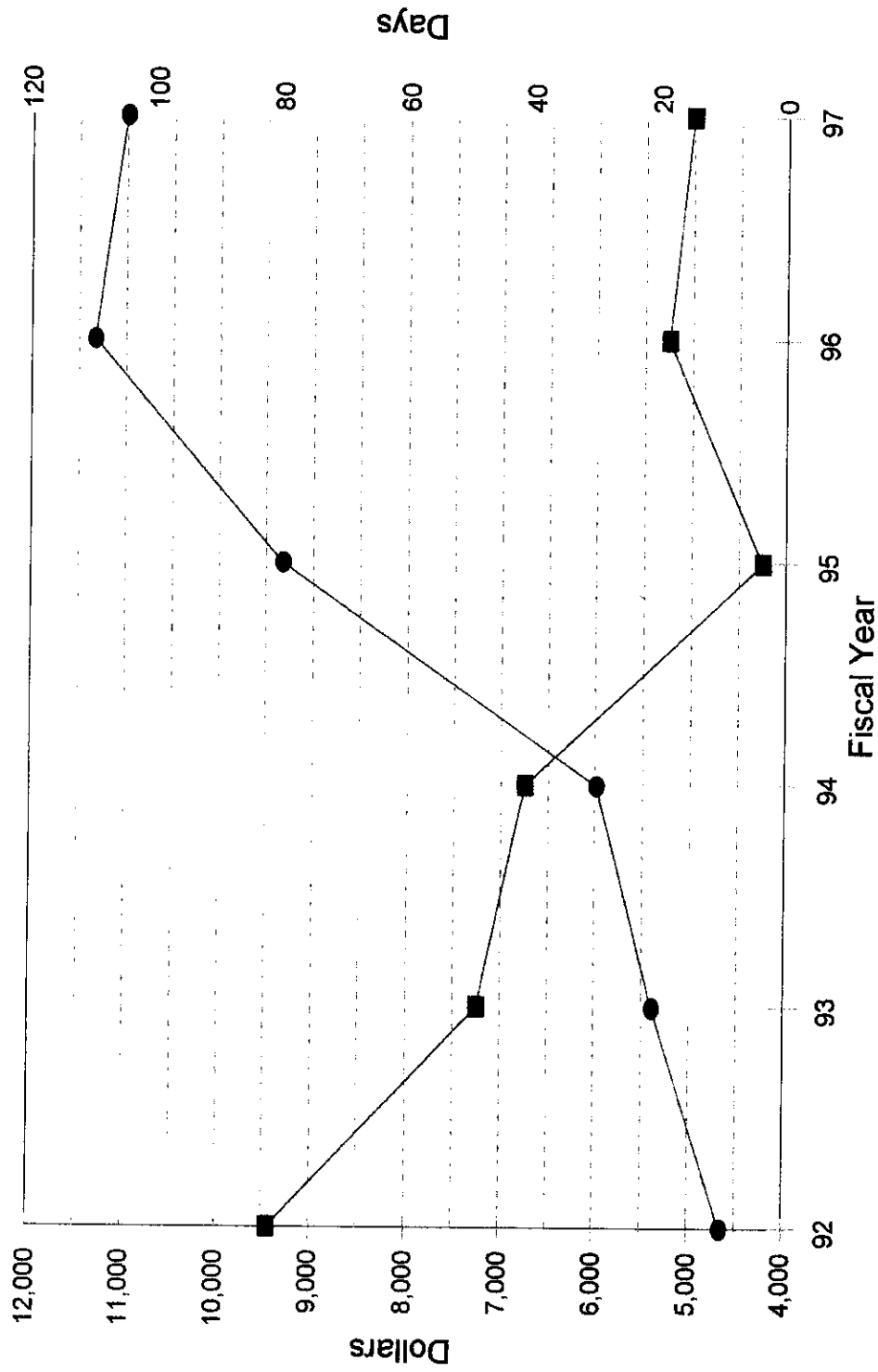
INSTRUMENTATION Upgraded computers.

TRAINING SERVICES OHMSETT personnel now perform hazardous material and safety-related training.



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TEST HISTORY



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FY'96 O&M COST SUMMARY

WBS ELEMENT	LABOR HOURS	LABOR COSTS	ODC COSTS	TOTAL COSTS
1.0 Administration	6,382	\$ 261K	\$ 113K	\$ 374K
2.0 Facility Systems	7,632	\$ 264K	\$ 193K	\$ 457K
3.0 Support Systems	2,023	\$ 71K	\$ 37K	\$ 108K
4.0 Instrumentation	1,535	\$ 46K	\$ 36K	\$ 82K
5.0 Health and Safety	1,643	\$ 66K	\$ 7K	\$ 73K
TOTAL	19,215	\$ 708K	\$ 386K	\$ 1,094K



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FY'96 MARKETING

- New Color Brochure
- Tours Ohmsett - Local Scouting and Civil Organization, Print Media, County Middle and High Schools, US and Foreign Government Agencies
- Conference Exhibits
 - Arctic and Marine Oilspill Program (AMOP) * (Calgary, Canada 6/12 - 6/14/96)
 - Remote Sensing Conference (RSC) (San Francisco, CA 6/24 - 6/27/96)
 - Marine Technology Society (MTS) (Ft. Lauderdale, FL 9/23 - 9/26/96)

** Indicates Technical Paper presented*



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FY'97 PLAN

- Facility Systems
- Repairs and Required Maintenance
- Administration
- Labor Requirements
- Projected Testing
- Budget
- Marketing



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FACILITY SYSTEMS

- Regular O&M
 - The OHMSETT staff is now performing timely preventative maintenance vs. corrective maintenance.
- Repairs and Required Maintenance
 - Fourteen are planned for performance during FY'97.
 - Twelve are slated for future investigation.



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FY'97 REPAIRS AND REQUIRED MAINTENANCE

1. Design & install oil transfer and purifying system including centrifuge
2. Seal basin & paint all bridges and railings
3. Repair/replace heaters on 1st, 2nd, and 3rd floor control tower
4. Repair/replace filter valves and actuators (filter area)
5. Repair/replace under ground water valves
6. Repair hydraulic leaks on wave generator
7. Replace sacrificial zinc anodes (tank system)
8. Repair fork truck #2
9. Inspect/replace/re-grease bridge carriage wheels
10. Repair jib crane on west side
11. Repair oil equalization pit concrete cracks & pipe flange
12. Replace weather station at mid tank
13. Inventory equipment and Instrumentation
14. Install oil/water separator to comply with requirements of Spill Prevention Countermeasure and Control (SPCC) plan



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FY'97 REPAIR INVESTIGATIONS

1. Repair/replace roof lighting on control tower
2. Repair cover on sluice pit
3. Replace silica in filter air dryers
4. Clean and paint wave house structure
5. Clean and paint bridge house
6. Repaint Tank #5 interior
7. Improve video editing capabilities
8. Replace chloropac
9. Repair/paint control tower interior walls
10. Repair filter area conex floor
11. Clean basin walls
12. Check and change wave maker hydraulic fluid



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FY'97 ADMINISTRATION ISSUES

- Personnel & Training
 - New Health and Safety Technician
- Manuals & Procedures
 - New procedure for incoming test equipment inspection report/documentation
 - Liquid Transfer Manual update
 - Quality Control Manual review
 - Manual of Standard Operating Procedures update
 - Dive Manual review
- Public Relations Support



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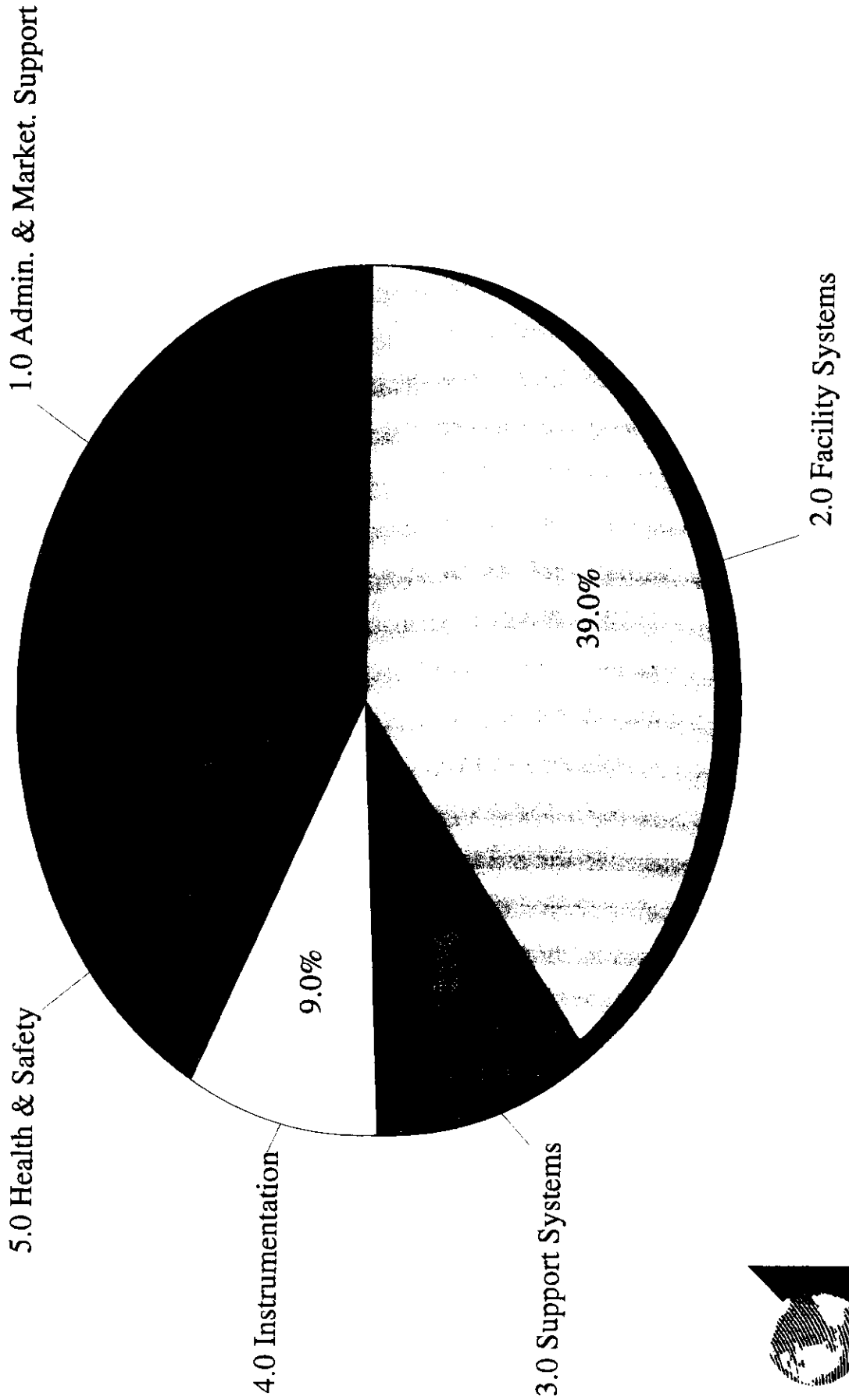
LABOR REQUIREMENTS

- Present staff covers O&M labor requirements with 35% of the total time available for testing.
- Replacement of H&S Technician.



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PROJECTED LABOR HOUR COMPOSITE



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FY'97 O&M BUDGET

WBS ELEMENT	LABOR HOURS	LABOR COSTS	ODC COSTS	TOTAL COSTS
1.0 Administration	5,400	\$ 200K	\$ 115K	\$ 315K
2.0 Facility Systems	6,900	\$ 265K	\$ 133K	\$ 398K
3.0 Support Systems	1,700	\$ 61K	\$ 37K	\$ 98K
4.0 Instrumentation	1,200	\$ 45K	\$ 10K	\$ 55K
5.0 Health & Safety	1,500	\$ 55K	\$ 10K	\$ 65K
TOTAL	16,700	\$ 626K	\$ 305K	\$ 931K



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FY'97 BUDGET BY QUARTER

PORTION	ELEMENT	1QFY'97	2QFY'97	3QFY'97	4QFY'97	TOTAL
O&M	Labor Hours	6,000	4,500	3,300	2,900	16,700
	Labor Dollars *	\$ 230,000	\$ 165,000	\$ 120,000	\$ 111,604	\$ 626,000
	ODC	** \$ 133,000	\$ 47,000	\$ 47,000	\$ 68,000	\$ 295,000
	Travel	\$ 2,000	\$ 3,000	\$ 3,000	\$ 2,000	\$ 10,000
	Total Dollars	\$ 365,000	\$ 215,000	\$ 170,000	\$ 181,000	\$ 931,000
T&M	Labor Hours	500	2,500	3,500	2,500	9,000
	Labor Dollars *	\$ 20,000	\$ 100,000	\$ 140,000	\$ 110,000	\$ 370,000
	ODC	\$ 1,000	\$ 10,000	\$ 10,000	\$ 3,000	\$ 24,000
	Travel	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 4,000
	Total Dollars	\$ 22,000	\$ 111,000	\$ 151,000	\$ 114,000	\$ 398,000

* Includes subcontractor and consultants

** Includes insurance



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FY'97 MARKETING

- Generate and Implement of Detailed Marketing Plan
- Update Color Brochure
- Tours of Ohmsett
- Conference Exhibits
- Remote Sensing Conference (RSC) March 17-19 '97
- International Oil Spill Conference (IOSC) April 7-10 '97
- Arctic and Marine Oilspill Program (AMOP) * June 11-13 '97
- Marine Technology Society (MTS) Sept. '97

** Indicates Technical Paper presented*



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PROJECTED TEST DAYS FY'97

DESCRIPTION	# OF DAYS
High Speed Skimmer (USCG)	20
Tank Exercise	5
University of New Hampshire Study	10
University of Rhode Island Study	5
Fire Boom (USCG) #1	5
Ka Band Radiometer	5
Training (USCG)	10
Emulsion Breaker (USCG)	5
Remote Sensor (CCG)	5
First Article Equipment Test (USCG)	10
Navy Training	10
Oil Spill Cooperatives (training, testing)	20
TOTAL	110



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