DEPARTMENT OF THE NAVY
FY 1997 BUDGET ESTIMATES

JUSTIFICATION OF ESTIMATES
MARCH 1996

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 3

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DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
FY 1997 PROCUREMENT PROGRAM

APPROPRIATION: OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY: AVIATION SUPPORT EQUIPMENT

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### UNCLASSIFIED

**Department of the Navy**

**FY 1997 Procurement Program**

**Exhibit P-1**

**APPROPRIATION: 1810N Other Procurement, Navy**  
**DATE: 03/06/96**

<table>
<thead>
<tr>
<th>LINE NO</th>
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<td>125</td>
<td>4005 AN/SSQ-36 (BT)</td>
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**BUDGET ACTIVITY 03: Aviation Support Equipment**

**Sonobuoys**

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<td>130</td>
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<td>131</td>
<td>4208 Expeditionary Airfields</td>
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<td>132</td>
<td>4214 Aircraft Rearming Equipment</td>
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<td>7.3</td>
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<td>133</td>
<td>4216 Aircraft Launch &amp; Recovery Equipment</td>
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<td>135</td>
<td>4242 Other Photographic Equipment</td>
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<td>138</td>
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<td>4271 Safety &amp; Survivability Items</td>
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**TOTAL Aviation Support Equipment**

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<td>199.1</td>
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* ITEMS UNDER $50,000
### Other Procurement, Navy
#### Program and Financing (in Thousands of dollars)

**Budget Plan (amounts for PROCUREMENT actions programmed)**

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<th></th>
<th></th>
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<td>00.0101 Ships support equipment</td>
<td>774,051</td>
<td>610,985</td>
<td>868,175</td>
<td>812,422</td>
<td>464,451</td>
<td>735,237</td>
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<td>00.0201 Communications and electronics equipment</td>
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<td>781,792</td>
<td>865,974</td>
<td>1,238,164</td>
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<td>274,061</td>
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<td>399,451</td>
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<td>451,365</td>
<td>300,618</td>
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<td>121,014</td>
<td>47,493</td>
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<td>00.0601 Supply support equipment</td>
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<td>69,153</td>
<td>90,139</td>
<td>91,648</td>
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<td>00.0701 Personnel and command support equipment</td>
<td>229,676</td>
<td>96,196</td>
<td>205,532</td>
<td>136,699</td>
<td>59,884</td>
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<td>00.0801 Spares and repair parts</td>
<td>261,529</td>
<td>191,249</td>
<td>208,828</td>
<td>311,155</td>
<td>144,229</td>
<td>192,190</td>
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<td><strong>Total direct program</strong></td>
<td>3,268,194</td>
<td>2,421,431</td>
<td>2,714,195</td>
<td>3,505,242</td>
<td>2,328,467</td>
<td>2,535,483</td>
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<tr>
<td>01.0101 Reimbursable program</td>
<td>18,948</td>
<td>36,000</td>
<td>36,000</td>
<td>18,820</td>
<td>53,152</td>
<td>56,000</td>
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<tr>
<td><strong>Total</strong></td>
<td>3,287,142</td>
<td>2,457,431</td>
<td>2,750,195</td>
<td>3,524,062</td>
<td>2,381,619</td>
<td>2,571,483</td>
</tr>
</tbody>
</table>

### Financing:

- **Offsetting collections from:**
  - Federal funds (-)
  - Trust funds (-)
  - Non-Federal sources (-)
  - Recovery of prior year obligations

- **Unobligated balance available, start of year:**
  - For completion of prior year budget plans
  - Available to finance new budget plans
  - Reprogramming from/to prior year budget plans
  - Unobligated balance available, end of year

- **Available to finance subsequent year budget:**

- **Unobligated balance expiring**

<table>
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<tr>
<th>39.0001 Budget authority</th>
<th>3,193,469</th>
<th>2,399,131</th>
<th>2,714,195</th>
<th>3,193,469</th>
<th>2,399,131</th>
<th>2,714,195</th>
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<td>2,464,637</td>
<td>2,714,195</td>
<td>3,290,499</td>
<td>2,464,637</td>
<td>2,714,195</td>
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<td>-8,600</td>
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<tr>
<td>41.0001 Transferred to other accounts (-)</td>
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<td>-103,438</td>
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<td>42.0001 Transferred from other accounts</td>
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<td>16,363</td>
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<td><strong>Total Appropriation (adjusted)</strong></td>
<td>3,193,469</td>
<td>2,399,131</td>
<td>2,714,195</td>
<td>3,193,469</td>
<td>2,399,131</td>
<td>2,714,195</td>
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### Other Procurement, Navy

Object Classification (in Thousands of dollars)

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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td><strong>Direct obligations:</strong></td>
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<tr>
<td>125.101 Advisory and assistance services</td>
<td>51,382</td>
<td>39,242</td>
<td>45,252</td>
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<tr>
<td>125.303 Purchases goods/services (inter/intra) Fed accounts</td>
<td>1,158,456</td>
<td>989,796</td>
<td>913,506</td>
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<tr>
<td>126.001 Supplies and materials</td>
<td>904,352</td>
<td>445,181</td>
<td>657,962</td>
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<tr>
<td>131.001 Equipment</td>
<td>1,191,052</td>
<td>854,248</td>
<td>918,763</td>
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<tr>
<td><strong>Total Direct obligations</strong></td>
<td>3,505,242</td>
<td>2,128,467</td>
<td>2,535,483</td>
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<tr>
<td><strong>Reimbursable obligations:</strong></td>
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<tr>
<td>231.001 Equipment</td>
<td>18,820</td>
<td>53,152</td>
<td>36,000</td>
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<tr>
<td><strong>Total Reimbursable obligations</strong></td>
<td>18,820</td>
<td>53,152</td>
<td>36,000</td>
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<tr>
<td><strong>Total obligations</strong></td>
<td>3,524,062</td>
<td>2,381,619</td>
<td>2,571,483</td>
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</table>
### Other Procurement, Navy

#### Program and Financing (in Thousands of dollars)

**Budget Plan (amounts for PROCUREMENT actions programed)**

<table>
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<tr>
<th>Identification code</th>
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<td>Relation of obligations to outlays:</td>
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<td>71.0001</td>
<td>Obligations incurred</td>
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<td>72.1001</td>
<td>Orders on hand, SOY</td>
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<tr>
<td>72.4001</td>
<td>Obligated balance, start of year</td>
<td>5,620,661</td>
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<td>Orders on hand, EOY</td>
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<td>Obligated balance, end of year</td>
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<td>77.0001</td>
<td>Adjustments in expired accounts (net)</td>
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<td>78.0001</td>
<td>Adjustments in unexpired accounts</td>
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<td>90.0001</td>
<td>Outlays (net)</td>
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00 MAR 96
OTHER PROCUREMENT, NAVY

BUDGET ITEM JUSTIFICATION SHEET

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<tr>
<td>3 - Aviation Support Equip - Sonobuoys</td>
<td>AN/SSQ-36 (BT) Sonobuoy</td>
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<td>NARM #400500</td>
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<td>PEO(A) PROGRAM</td>
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<th>QUANTITY (In Thous)</th>
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<th>FY96</th>
<th>FY97</th>
<th>FY98</th>
<th>FY99</th>
<th>FY00</th>
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<td>COST (In Millions)</td>
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The AN/SSQ-36 is an air-dropped bathythermograph transmitting set that is used to provide a vertical temperature profile of the ocean with respect to depth. The data is transmitted to the ASW aircraft to assist in the selection of hydrophone depths and tactics in the localizing and tracking of submarines. The information on ambient water conditions is also used for long forecasts of acoustic conditions in the ocean.

The FY 95 contract has been awarded to Hermes for a quantity of 11,982 AN/SSQ-36's.

The FY 96 program provides for 488 AN/SSQ-36's to be competed among qualified manufacturers.

The FY 97 program provides for 4,100 AN/SSQ-36's to be competed among qualified manufacturers.
<table>
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<th>COST CODE</th>
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<th>FY-96 QTY</th>
<th>FY-96 TOTAL COST</th>
<th>FY-97 QTY</th>
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<td>QG001</td>
<td>AN/SSQ-36 w/SLC*</td>
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<td>11,982</td>
<td>2,284</td>
<td>197</td>
<td>4,100</td>
<td>923</td>
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*SONOBUOY LAUNCH CONTAINER*
| COST | ELEMENT OF COST | CONTRACTOR & LOCATION | CONTRACT METHOD | CONTRACTED BY | DATE OF AWARD | DATE OF DELIVERY | QTY | UNIT COST | ARE SPECS IF | AVAILABLE WHEN | REVIEWED NOW? | SIONS AVAILABLE WHEN? | REQ? | ABLE |
|------|----------------|-----------------------|----------------|---------------|---------------|----------------|-----------------|-----|-----------|-------------|----------------|---------------|------------------|------|------|
| FY 95 | AN/SSQ-36 w/SLC | HERMES CANADA          | C/FFP          | NAWC IN       | 12/94         | 1/96           | 11,982          | 157.99 | YES      | NO          |                 |               |                  |      |      |
| FY 96 | AN/SSQ-36 w/SLC | NOT SELECTED          | C/FFP          | NAWC IN       | 3/96          | 3/97           | 488             | 356.74 | YES      | NO          |                 |               |                  |      |      |
| FY 97 | AN/SSQ-36 w/SLC | NOT SELECTED          | C/FFP          | NAWC IN       | 12/96         | 10/97          | 4,100           | 200.00 | YES      | NO          |                 |               |                  |      |      |

REMARKS:

P-1 Shopping List Item No.: 125
Page No.: 3
**Appropriation/Budget Activity**
3 - Aviation Support Equipment -

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<th>FY-99 QTY</th>
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<th>FY-00 QTY</th>
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<th>FY-01 QTY</th>
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**TOTAL**

4,028 956 3,882 948 3,762 941 3,774 934

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*SONOBUOY LAUNCH CONTAINER*
<table>
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<th>ITEM / MANUFACTURER/ PROCUREMENT YEAR</th>
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<th>BAL. AS OF</th>
<th>FISCAL YEAR 96</th>
<th>FISCAL YEAR 97</th>
<th>CALENDAR YEAR 96</th>
<th>CALENDAR YEAR 97</th>
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<td>-</td>
<td>12.0</td>
<td>13 13 25 25</td>
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**TOTAL**

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<th>REMARKS</th>
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<td>D *</td>
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DO Form 2445, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST
ITEM NO 125 Page 4
Exhibit P-21 Production Schedule

13
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<th>ITEM/FAAATEUR/ PROCUREMENT YEAR</th>
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DD Form 2445, JUL 87
Previous editions are obsolete
P-1 SHOPPING LIST ITEM NO 125 Page No. 4A
Page 2 of 2 Pages
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<tbody>
<tr>
<td>Other Procurement, Navy</td>
<td>AN/SSQ-62 (DICASS) Sonobuoy</td>
<td>P-1 # 126</td>
</tr>
<tr>
<td>3 - Aviation Support Equip - Sonobuoys</td>
<td>NARM #403200</td>
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<table>
<thead>
<tr>
<th>QUANTITY (In Thous)</th>
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<th>FY96</th>
<th>FY97</th>
<th>FY98</th>
<th>FY99</th>
<th>FY00</th>
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The AN/SSQ-62 (DICASS) sonobuoy is a directional active sonobuoy that provides target bearing and range information on the submarine with each echo.

The AN/SSQ-62D is an ECP to the AN/SSQ-62C incorporating the following changes:
1. Add shallow and deep family of depths, selectable at Electronic Function Select, and
2. remove grey overpack shipping/storage container.

The FY 95 contract has been awarded to Sparton for a quantity of 22,152 AN/SSQ-62C's.

The FY 96 program provides for 1,994 AN/SSQ-62D's to be competed among qualified manufacturers.

The FY 97 program provides for 22,267 AN/SSQ-62D's to be competed among qualified manufacturers.
### Appropriation/Budget Activity
- **Other Procurement, Navy**
- **3 - Aviation Support Equipment** -

#### Sonobuoys
- **SONOBUOY**
- **PEO(A) PROGRAM**
- **U3QF**

#### Program Cost Breakdown

<table>
<thead>
<tr>
<th>COST CODE</th>
<th>ELEMENT OF COST</th>
<th>ID CODE</th>
<th>QTY</th>
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<th>QTY</th>
<th>TOTAL COST</th>
<th>QTY</th>
<th>TOTAL COST</th>
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<td>QF001</td>
<td>AN/SSQ-62 w/SLC*</td>
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<td></td>
<td>Delivered to Fleet</td>
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<td>668</td>
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<td>QF830</td>
<td>PRODUCTION ENGINEERING</td>
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<td>599</td>
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<td>231</td>
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**TOTAL**
- 22,152
- 23,754
- 1,994
- 4,005
- 22,267
- 22,704

**Includes funding for Silver**

**SONOBUOY LAUNCH CONTAINER**

P-1 Shopping List Item No. 126

Page No. 2
<table>
<thead>
<tr>
<th>COST CODE</th>
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<th>CONTRACTED TYPE</th>
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<th>DELIVERY</th>
<th>QTY</th>
<th>UNIT COST</th>
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REMARKS:
### PROGRAM COST BREAKDOWN

**OTHER PROCUREMENT, NAVY**

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<th>P-1 Item Nomenclature</th>
<th>Subhead No.</th>
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<tr>
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<tr>
<td>3 - Aviation Support Equipment</td>
<td>AN/SSQ-62 (DICASS)</td>
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<td>PEO(A) PROGRAM</td>
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**Includes funding for Silver**

* Sonobuoy Launch Container
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<th>TOTAL QTY</th>
<th>BAL QTY</th>
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<th>PRIOR</th>
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<th>CAL YEAR</th>
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<td>08/08/16</td>
<td>16/16/16</td>
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**TOTAL**

| PROCUREMENT LEAD TIME | PRODUCTION RATES | RCHQ | MANUFACTURER'S NAME AND LOCATION | MINIMUM | MAXIMUM | D + | 1-8-5 | 9-86 | 87-96 | 97-98 | 99-00 | 01-02 | 03-04 | 05-06 | 07-08 | 09-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 |
|-----------------------|------------------|------|----------------------------------|---------|---------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| FMS SPARTON           | 11/20            | 22.3 | MAGNAVOX, FT. WAYNE, IN         | 0.0     | 4.0     | 8.0 | M-4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| FMS SPARTON           | 11/20            | 22.3 | SPARTON, JACKSON, MI            | 0.0     | 6.0     | 8.0 | M-4  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**REMARKS**

- FY 95 PROD LAT (512)
- FY 96 PROD LAT (45)
- FY 97 PROD LAT (668)
- LAT DONE MONTHLY

**SHIPPING LIST**

- P-1 SHOPPING LIST

**ITEM NO:** 126

**Page:** 4

**Exhibit P-21 Production Schedule**
<table>
<thead>
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<td>GF 003 ANSSG-34/30 SELECTED</td>
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<td>GF 004 ANSSG-24/20 SELECTED</td>
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**Remarks:**

**Date:**
- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

**Fiscal Year:**
- FY 97
- FY 98
- FY 99
- FY 00
- FY 01
- FY 02
- FY 03
- FY 04
- FY 05
- FY 06
- FY 07

**Calendar Year:**
- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

**SONOBUIOYS (ANSSG-42) PECIA PROGRAM:**

**FY 96/97 BUDGET PRODUCTION SCHEDULE**
### OTHER PROCUREMENT, NAVY

#### BUDGET ITEM JUSTIFICATION SHEET

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<th>Other Procurement, Navy</th>
<th>P-1 Item Nomenclature</th>
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<td>P-1 #127</td>
<td>AN/SSQ-110</td>
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<td></td>
<td>(EER) Extended Echo Ranging Sonobuoy</td>
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<tr>
<td>QUANTITY (In Thous)</td>
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<td>FY97</td>
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The AN/SSQ-110 is an air-dropped active source buoy to be used in conjunction with the AN/SSQ-77B to perform Extended Echo Ranging (EER) system active search.

The FY 95 contract has been awarded to Magnavox for a quantity of 43,956 AN/SSQ-110A's.

The FY 96 program provides for 23,312 AN/SSQ-110A's to be competed among qualified manufacturers.

The FY 97 budget request provides for 44,248 AN/SSQ-110A's to be competed among qualified manufacturers.
# Program Cost Breakdown

**Other Procurement, Navy**

<table>
<thead>
<tr>
<th>Appropriation/Budget Activity</th>
<th>P-1 Item Nomenclature</th>
<th>Subhead No.:</th>
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<td>AN/SSQ-110</td>
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<tr>
<td>Sonobuoys</td>
<td>(EER) Extended Echo Rang Sonobuoy</td>
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<th>FY-96 TOTAL COST</th>
<th>FY-97 TOTAL COST</th>
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**Total**

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<th>FY-97 TOTAL COST</th>
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<tbody>
<tr>
<td>43,956</td>
<td>36,970</td>
<td>44,248</td>
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**P-1 Shopping List Item No.**

127
## OTHER PROCUREMENT, NAVY

### PROCUREMENT HISTORY & PLANNING

<table>
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<th>P-1 Item Nomenclature</th>
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<td>P-1 # 127</td>
<td>U3QK</td>
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<td>Sonobuys (EER) Extended Echo Ranging Sonobuoy</td>
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<table>
<thead>
<tr>
<th>COST CODE</th>
<th>ELEMENT OF COST &amp; LOCATION</th>
<th>CONTRACTOR &amp; LOCATION</th>
<th>CONTRACT METHOD</th>
<th>CONTRACTED TYPE</th>
<th>AWARD DATE</th>
<th>DELIVERY DATE</th>
<th>QTY</th>
<th>UNIT COST</th>
<th>ARE SPECIFICATIONS AVAILABLE WHEN REVISED?</th>
<th>SPECIFICATIONS NOW AVAILABLE?</th>
<th>IF READY WHEN ORDER PLACED?</th>
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<tr>
<td>FY 95</td>
<td></td>
<td></td>
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<tr>
<td>U3QK/001</td>
<td>AN/SSQ-110A</td>
<td>MAGNAVOX INDIANA</td>
<td>C/FFP</td>
<td>NAWC IN</td>
<td>6/95</td>
<td>6/96</td>
<td>43,956</td>
<td>773.32</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>FY 96</td>
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<tr>
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<td>C/FFP</td>
<td>NAWC IN</td>
<td>4/96</td>
<td>4/97</td>
<td>23,312</td>
<td>817.85</td>
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<td>NO</td>
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<tr>
<td>FY 97</td>
<td></td>
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<tr>
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<td>AN/SSQ-110A</td>
<td>NOT SELECTED</td>
<td>C/FFP</td>
<td>NAWC IN</td>
<td>12/96</td>
<td>10/97</td>
<td>44,248</td>
<td>760.60</td>
<td>YES</td>
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</table>

**REMARKS:**
### Program Cost Breakdown

#### Appropriation/Budget Activity
- Other Procurement, Navy
- 3 - Aviation Support Equipment
  - Sonobuoys

#### P-1 Item Nomenclature
- P-1 Item Nomenclature
- NARM #403800
- AN/SSQ-110
- PEO(A) PROGRAM
- (EER) Extended Echo Ranging Sonobuoy
- U3QK

#### (Total Cost in Thousands, Quantity each)

<table>
<thead>
<tr>
<th>COST CODE</th>
<th>ELEMENT OF COST</th>
<th>FY-98</th>
<th>FY-99</th>
<th>FY-00</th>
<th>FY-01</th>
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<td>AN/SSQ-110A</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Delivered to Fleet</td>
<td>35,148</td>
<td>43,590</td>
<td>40,434</td>
<td>38,670</td>
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<tr>
<td></td>
<td>Lot Acceptance Buoys</td>
<td>1,087</td>
<td>1,348</td>
<td>1,251</td>
<td>1,196</td>
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<tr>
<td>QK830</td>
<td>PRODUCTION ENGINEERING</td>
<td>1,613</td>
<td>2,018</td>
<td>2,003</td>
<td>1,937</td>
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<td>QK860</td>
<td>ACCEPTANCE TESTING</td>
<td>1,747</td>
<td>2,185</td>
<td>2,169</td>
<td>2,098</td>
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</table>

| TOTAL     | 36,235                      | 36,239| 44,938| 37,826| 41,685|

#### Shopping List Item No.
- P-1 Shopping List Item No.
- 127

#### Page No.
- Page No
| ITEM / MANUFACTURER / PROCUREMENT YEAR | S | ACCEP. PROC. QTY | PRIOR TO 1 OCT | BAL. DUE AS OF 1 OCT | J | F | M | A | MA | J | AUG | SEP | OCT | NOV | DEC | JAN | F | M | J | J | A | S | D | OE | N | E | A | PC | R | Y | N | L | G | P |
| FY 93                                |   | 5.0            | 1.8            | 4.2                  |   |   |   |   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FY 94                                |   | 17.4           | 17.4           |                      |   |   |   |   | 1.2 | 2.4 | 2.4 | 2.4 | 2.4 | 1.2 | 0.8 |
| FY 95                                |   | 43.9           | 43.9           |                      |   |   |   |   | 1.8 | 3.0 | 3.6 | 3.5 | 3.6 | 3.6 | 3.5 | 4.7 | 5.9 |
| FY 96                                |   | 23.3           | 23.3           |                      |   |   |   |   | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| FY 97                                |   | 44.2           | 44.2           |                      |   |   |   |   | 44.2|
| TOTAL                                |   |               |               |                      |   |   |   |   | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |

**TOTAL**

<table>
<thead>
<tr>
<th>MANUFACTURER'S NAME AND LOCATION</th>
<th>PRODUCTION RATES</th>
<th>PROCUREMENT LEAD TIME</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAGNAVOX, FT. WAYNE IN.</td>
<td>MINIMUM 3-5</td>
<td>ADMIN LEAD TIME: PRIOR 1 OCT</td>
<td>FY 95 PROC LAT (1216)</td>
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<tr>
<td>SPARTON, JACKSON MI.</td>
<td>MAXIMUM 10</td>
<td>MANUFACTURING AFTER 1 OCT</td>
<td>FY 96 PROC LAT (5999)</td>
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<tr>
<td></td>
<td></td>
<td>TOTAL 1 OCT</td>
<td>FY 97 PROC LAT (1327)</td>
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</tbody>
</table>

DO Form 2445, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

Page 4

Exhibit P-21 Production Schedule
<table>
<thead>
<tr>
<th>ITEM/Manufacturer/Procurement Year</th>
<th>FY 95</th>
<th>FY 96/97</th>
<th>FY 97</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>FISCAL YEAR</td>
<td>CALENDAR YEAR</td>
</tr>
<tr>
<td></td>
<td>97</td>
<td>M</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>98</td>
<td>T</td>
<td>U</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>F</td>
<td>E</td>
</tr>
<tr>
<td>QK001 AN/SSQ-110A - NOT SEL</td>
<td></td>
<td>19</td>
<td>16</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>37</td>
<td>37</td>
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</tbody>
</table>

**Remarks**

Previous editions are obsolete

Page No. 4A

Page 2 of 2 Pages
The AN/SSQ-86 Down Link Communication DLC Sonobuoy provides one-way acoustic communication between an ASW aircraft and a submerged submarine. It requires no avionics.

The FY 95 contract has been awarded to Sparton for a quantity of 1,700 AN/SSQ-86's.
<table>
<thead>
<tr>
<th>Item Code</th>
<th>Element of Cost</th>
<th>FY-95 Cost</th>
<th>FY-96 Cost</th>
<th>FY-97 Cost</th>
<th>Total Cost</th>
</tr>
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<tbody>
<tr>
<td>QN860</td>
<td>Acceptance Testing</td>
<td>70</td>
<td>102</td>
<td>901</td>
<td>1700</td>
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<tr>
<td>QN830</td>
<td>Production Engineering</td>
<td>70</td>
<td>96</td>
<td>1,604</td>
<td>2,300</td>
</tr>
<tr>
<td>U3QN-001</td>
<td>Delivered to Fleet</td>
<td>1,604</td>
<td>96</td>
<td>729</td>
<td>2,329</td>
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<tr>
<td></td>
<td>** Includes Funding for Silver SONOBUOY CONTAINER**</td>
<td><strong>NOT SHOWN</strong></td>
<td><strong>NOT SHOWN</strong></td>
<td><strong>NOT SHOWN</strong></td>
<td><strong>NOT SHOWN</strong></td>
</tr>
</tbody>
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**Note:** The table above shows the breakdown of costs for different elements, with specific codes and quantities for each.
## OTHER PROCUREMENT, NAVY
### PROCUREMENT HISTORY & PLANNING

<table>
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<th>Appropriation/Budget Activity</th>
<th>P-1 Item Nomenclature</th>
<th>P-1 #</th>
<th>Subhead No.:</th>
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</thead>
<tbody>
<tr>
<td>Other Procurement, Navy</td>
<td>P-1 Item Nomenclature</td>
<td>P-1 #</td>
<td>128</td>
</tr>
<tr>
<td>3-Aviation Support Equipment-</td>
<td>AN/SSQ-86 (DLC) Sonobuoy</td>
<td>PEO(A) PROGRAM</td>
<td>U3QN</td>
</tr>
</tbody>
</table>

| COST | ELEMENT OF COST | FISCAL YEAR | LOCATION | TYPE | CON-TRACT | METHOD | CON-TRACTED | AWARD | DELIV- | PAR- | UNIT | ARE | IF | SPECS | SPEC | YES, | AVAIL | REVI- | WHEN | NOW? | SIONS | AVAIL- | WHEN? | REQ? | ABLE |
|------|-----------------|-------------|----------|-------|-----------|--------|-------------|-------|--------|------|------|-----|----|-------|------|------|------|------|-------|-------|------|------|------|
| U3QN/001 | AN/SSQ-86 | FY 95 | SPARTON | C/FFF | NAWC IN | 2/95 | 12/95 | 1,700 | 393.42 | YES | NO  |

**REMARKS:**

**P-1 Shopping List Item No.** 128

**Page No.** 3
## FY 96/97 BUDGET PRODUCTION SCHEDULE

**SONOBOYS (AN/SSQ-86) PEQ(A) PROGRAM**

### ITEM / MANUFACTURER / PROCUREMENT YEAR

<table>
<thead>
<tr>
<th>ITEM / MANUFACTURER / PROCUREMENT YEAR</th>
<th>SERV</th>
<th>PROC QTY</th>
<th>ACCEP PRIOR</th>
<th>BAL DUE OF</th>
<th>FISCAL YEAR 96</th>
<th>CALENDAR YEAR 96</th>
<th>FISCAL YEAR 97</th>
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<td>FY 95</td>
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</tr>
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<td>QN 001 AN/SSQ-86 - SPARTON</td>
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### PRODUCTION RATES (RCHD)

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<th>MAXIMUM</th>
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<tbody>
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<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>SPARTON, JACKSON, MI.</td>
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### PROCUREMENT LEAD TIME

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<th>MANUFACTURING</th>
<th>TOTAL FY 95 PROC LAT (96)</th>
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<tbody>
<tr>
<td>PRIOR 1 OCT</td>
<td>AFTER 1 OCT</td>
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<tr>
<td>AFTER 1 OCT</td>
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<td>12</td>
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**REMARKS**

LAT DONE MONTHLY

**DO Form 2445, JUL 87**

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ITEM NO 128 Page 4 Exhibit P-21 Production Schedule

311/244
### OTHER PROCUREMENT, NAVY

**BUDGET ITEM JUSTIFICATION SHEET**

<table>
<thead>
<tr>
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<th>P-1 Item Nomenclature</th>
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<tr>
<td>Other Procurement, Navy</td>
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<td>129</td>
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<tr>
<td>3 - Aviation Support Equip - Sonobuoys</td>
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</tr>
<tr>
<td></td>
<td>Signal, Underwater Sound (SUS)</td>
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<table>
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<th>FY95</th>
<th>FY96</th>
<th>FY97</th>
<th>FY98</th>
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<td>1.1</td>
<td>1.4</td>
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</table>

**COST (In Millions)**

Signal, Underwater Sound devices are expendable, high energy acoustic sources. The MK-84 is a non-explosive, electro-acoustic device which is launched from aircraft and transmits acoustic tones after water entry. The MK-84 SUS is used for training and exercise signaling to submarines.

The FY 97 program provides for 3,700 SUS MK 84'S.
| Appropriation/Budget Activity | Other Procurement, Navy | 3-Aviation Support Equipment- |  
|------------------------------|------------------------|-----------------------------|**Sonobuoys**
|                              |                        |                             | Signal, Underwater Sound (SUS)
| Cost                         | ELEMENT OF COST        | FISCAL YEAR                 |**CONTRACT**
| CODE                         | LOCATION               |                             |**TRACT**
|                              | TYPE                   |                             |**METHOD**
|                              |                        |                             |**CONTRACTED**
|                              |                        |                             |**AWARD**
|                              |                        |                             |**DELIVERED**
|                              |                        |                             |**UNIT**
|                              |                        |                             |**DATE**
|                              |                        |                             |**OF**
|                              |                        |                             |**FIRST**
|                              |                        |                             |**EREY**
|                              |                        |                             |**QTY**
|                              |                        |                             |**COST**
| FY 97                        | QH003 SUS-MK 84        | Not Selected NEGATIVE      | C/FFP
|                              |                        |                             | NAVC IN
|                              |                        |                             | 12/96
|                              |                        |                             | 10/97
|                              |                        |                             | 3,700
|                              |                        |                             | 264.32
|                              |                        |                             | YES
|                              |                        |                             | NO

**Remarks:**
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<th>S</th>
<th>QTY</th>
<th>PROC</th>
<th>PRIOR</th>
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<th>ACCEP.</th>
<th>CAL.</th>
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<th>FISCAL YEAR 98</th>
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<tr>
<td><strong>MANUFACTURER'S NAME AND LOCATION</strong></td>
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<tr>
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*DO Form 2445, JUL 87 Previous editions are obsolete*

*P-1 SHOPPING LIST ITEM NO 129 Page 4 Exhibit P-21 Production Schedule*
<table>
<thead>
<tr>
<th>ITEM / MANUFACTURER / PROCUREMENT YEAR</th>
<th>FISCAL YEAR 97</th>
<th>CALENDAR YEAR 97</th>
<th>FISCAL YEAR 98</th>
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<td></td>
<td>QNT</td>
<td>DUE</td>
<td>JAN</td>
<td>FEB</td>
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<tr>
<td>FY 97</td>
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<tr>
<td>GH 0001 SUS MK 84 - NOT SELECTED</td>
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**TOTAL**

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<thead>
<tr>
<th>MANUFACTURER'S NAME AND LOCATION</th>
<th>PRODUCTION RATES</th>
<th>R/Q/HD</th>
<th>PROCUREMENT LEAD TIME</th>
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<table>
<thead>
<tr>
<th>ITEM NO 129</th>
<th>Page 4</th>
<th>Exhibit P-21 Production Schedule</th>
</tr>
</thead>
</table>
This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, Weapons Impact Scoring Set (WISS) Replacement, Systems Replacement and Modernization (SRAM), Tactical Aircrew Combat Training Systems (TACTS), Communication Central Network Phase II (CCN-II), SOCAL Communications Upgrade and generic systems such as range computer systems, underwater training range systems and range tracking, simulation, and surveillance systems. The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, EW emitters/jammers, display consoles, radars, tracking subsystems, control/computation systems, display/debriefing subsystems, processors, HF/VHF/UHF receivers, transmitters/transceivers, multiplexers, intercom circuits, encoding devices, frequency interface control systems, power equipment, sonobuoy tracking systems, bottom mounted underwater hydrophone systems, phase shift keying processors, and other specialized equipment.

Justification: Operational forces of the Navy's air, surface, and subsurface units are being equipped with the latest complex and sophisticated weapon systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to: conduct safe fleet training exercises; achieve a high state of readiness; objectively evaluate training effectiveness as well as the strategy and tactics employed; evaluate the performance of equipment; and, to measure reliability and accuracy of operational weapon systems.
**AIRCrew ELECTRONIC WARFARE TRAINING RANGES (AEWTR):**
The AEWTR provides a simulated hostile EW environment in which aircrews can be trained. The AEWTR consists of operational ranges at NAS Fallon, NV; MCAS Yuma, AZ; and MCAS Cherry Pt, NC and other special purpose training sites; e.g. Whidbey. The Fallon, Cherry Pt., and Yuma EW ranges are being integrated into the TACTS ranges which are co-located there. The integration allows the TACTS system to provide 36 A/C tracking data to the EW range for EW emitter pointing and also allows EW debrief through the TACTS debriefing system.

FY 1995 funding integrated, (with Yuma TACTS), 4 Mobile IR Threat Systems known as the "Avenger". The Avenger system is a vehicle mounted system operated by the USMC units at MCAS Yuma. FY 1995 funding procured 7 Threat Radar Emitter Simulators (TRES) AN/GPQ-11(V)s for MCAS Yuma and the hardware and software necessary to integrate with TACTS. Also, FY 1995 funding provided interfaces for integration of Marine Air Command and Control Squadron (MCCS), Light Anti-Aircraft Missile (LAAM) Battalion and Low-Altitude Air Defense (LAAD) units at MCAS Cherry Point into TACTS to enhance target area threat density and diversity.

FY 1996 funding will procure 5 Threat Radar Emitter Simulators (TRES) for MCAS Yuma and the hardware and software necessary to integrate with TACTS.

**WEAPONS IMPACT SCORING SET (WISS) REPLACEMENT:**
The WISS is an electro-optical scoring system which scores inert and live ordnance weapons delivery at Fleet training ranges. This WISS Replacement Program will provide a complete change-out of existing outdated/obsolete WISS at the FTRs with an improved and logistically supportable system. FY 1995 funding will procure nine WISS (V4) systems. The first system will achieve IOC in September 1996. Installation support required in FY 95 is for site preparation at Camp Lejeune, and Okinawa. FY 1996 funding will procure 15 WISS (V4) systems. Installation support required for FY 96 is for site preparation at MCAS Cherry Point and NAF El Centro.
OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET

NAVMAT FORM 7110.1

BUDGET ACTIVITY 3
AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE
WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

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<thead>
<tr>
<th></th>
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<td>$ 26.7</td>
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SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM):
The SRAM program provides for the procurement of numerous minor equipments/instrumentation needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Generally, the receiving activity will accomplish installation of these minor equipments; whereas, the more complex equipments may require installation support from other agencies. Funding for installation of minor equipment required in all years at all ranges.

TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS):
The TACTS was developed in the early 1970’s in response to the large Aircrew losses in Vietnam. TACTS tracks aircraft and monitors weapon systems during training missions. Weapons simulations are run by the TACTS in response to aircrew actions. Results are displayed in real-time and recorded for post mission debrief. The original system was installed at Yuma, AZ and a follow-on system was installed at Oceana, VA. Navy Decision Coordinating Paper (NDCP) W0431-AA established a requirement to continue development of new training techniques and capabilities through TACTS upgrades. The USAF has adopted the TACTS, renamed the Air Combat Maneuvering Instrumentation (ACMI), and more recently the Air Combat Training System (ACTS), as their standard aircrew training system. The latest generation 36 A/C system achieved an initial operating capability at Fallon NV in 1985. Other 36 A/C systems have been installed at Cherry Point, NC and Beaufort, SC. The Yuma and Oceana systems have also been upgraded to the 36 A/C configuration.

The FY 1995 program will procure, integrate and install at NAS Fallon/Nellis AFB a microwave link to provide real-time control of exercises at Nellis AFB from NAS Fallon. Threat system video, data, and voice communications will also be carried over the link. This will greatly enhance opportunities for joint training using the USN’s and USAF’s largest and most capable TACTS/ACTS range complexes. Installation support is required in FY-96 for site preparation at NAS Fallon. The FY 1996 program will upgrade the Yuma TACTS. This will improve TACTS tracking of aircraft operating at low altitudes around the existing target complex. Also, FY 1996 funding will upgrade TACTS Tracking Instrumentation for Cherry Point to provide coverage of the Camp Lejeune target areas. The FY 1997 program will replace the Control and Computational Subsystems (CCSs) at Fallon, Cherry Point, Beaufort, and Yuma TACTS. The older computers currently used in the CCSs at these ranges are expensive to operate and maintain and lack the processing capacity required to fully support recent and planned software enhancements.

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P-1 SHOPP LIST
ITEM NO. 130
PAGE NO. 3
SHALLOW WATER RANGE (SW RANGE):
Existing underwater ranges are situated in deep water and cannot provide training in ASW tactics employed in shallow coastal waters. A Mission Needs Statement (MNS) for Shallow Water training instrumentation has been endorsed by both Atlantic and Pacific fleets and signed by N8: Fixed instrumentation is required to preclude the recurring cost of periodic retrieval and maintenance of mobile systems. FY 1997 funds the LANTFLT requirement for the procurement of the initial increment of a 125 square NM shallow water range and range control equipment at Onslow Bay, NC.

COMMUNICATIONS UPGRADE (TWENTYNINE PALMS):
Certain training sites within the Twentynine Palms' operating area do not have communications with the Twentynine Palms BEARMAT control facility. FY 1997 funding will procure eight solar powered communications suites and a backbone microwave link back to BEARMAT for continuous communications with aircraft and ground personnel operating throughout the Twentynine Palms operating area. Installation support for FY97 is for site preparation at Twenty-Nine Palms.

COMMUNICATION CENTRAL NETWORK PHASE II (CCN–II):
CCN–I was funded in FY 1988 to provide digital communication switches to support three Tracking and Control (T&C) rooms at PMRF. CCN–II will complete the conversion of the PMRF range communications system from analog to digital equipment. The FY 1995 funds will provide new HF antennas, new VHF/UHF systems, modernize and consolidate the FM nets, provide new portable transceivers, upgrade the HF equipment, provide a new LAN and WAN, upgrade the communication switch, and upgrade the message center switch.
**OTHER PROCUREMENT, NAVY**

**BUDGET ITEM JUSTIFICATION SHEET**

<table>
<thead>
<tr>
<th>BUDGET ACTIVITY 3</th>
<th>P-1 ITEM NOMENCLATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVIATION SUPPORT EQUIPMENT</td>
<td>WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130</td>
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</table>

**PACIFIC MISSILE RANGE FACILITY UPGRADE:**

FY 1995 funding of $21.5M will include the following projects: (1) $2.5M for a range operations control system upgrade and improvements to range standard configurations; (2) $1.0M to replace a launch pad sequencer to provide multiple missile launch capability; (3) $3.0M to upgrade range airborne targets, missiles, and high performance aircraft; (4) $1.5M to fund underwater tracking system processor upgrade from an analog to a digital system utilizing naval gunfire support simulator chassis; (5) $4.55M to support several electronic warfare improvement projects including integration and workstations for distributed interactive simulations to improve training; (6) $250K for torpedo weapon recovery boat improvements; (7) $200K to acquire a periscope buoy for littoral warfare test and evaluation and training support; (8) $2.0M for procurement and integration of a replacement high performance video tracker system including digital visual imaging improvements; (9) $1.5M to procure three (3) command and control transmitters; (10) $4.0M to procure remote launcher support activities; and (11) $1.0M to acquire a full-scale target boat to support over-the-horizon firings and include provisions for integration of electronic warfare and target electronics systems to provide a realistic target capability.

FY 1996 funding of $9.5M will include the following projects: (1) $6.3M for the procurement of test range site integration equipment; (2) $2.0M for the procurement of a mobile-periscope buoy; (3) $3.3M for the procurement of air defense system maintenance equipment and (4) $0.9M for the procurement of a computer replacement for the Joint Tactical Information Distribution System (JTIDS).

**SOCAL COMM UPGRADE:**

The existing data links at the remote training sites on San Clemente Island (SCI) and the range operations center (ROC) at North Island are inadequate to handle all of the data from new instrumentation systems. Planned training range instrumentation cannot be utilized until additional communication capability is provided.

FY 1995 funding provided SOCAL with an upgraded data link between the ROC on North Island and Mt. Thirst on San Clemente Island.

FY 1996 funding will add data links between the main microwave site on San Clemente and various remote equipment sites. The expanded capability is required to support OTH-T communications, Large Area Tracking Range (LATR), EW range expansion, and Joint Tactical Combat Training System (JTCTS). It will provide Mt. Thirst to REWS connectivity, North Island connectivity, RF systems upgrade, a LAMPS III Repeater, expanded digital data links between North Island and SCI, an HF Upgrade, and a VHF/UHF Upgrade.
**OTHER PROCUREMENT, NAVY**

**BUDGET ITEM JUSTIFICATION SHEET**

<table>
<thead>
<tr>
<th>BUDGET ACTIVITY 3</th>
<th>P-1 ITEM NOMENCLATURE</th>
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<tr>
<td>AVIATION SUPPORT EQUIPMENT</td>
<td>WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130</td>
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**CHERRY POINT INFRASTRUCTURE:**

The FY 1995 funding provided a Range Communication capability (MAEWR ROCC) with ships at sea. FY 1995 funding procured a Low Level Air/Surface Radar for MCB Camp Lejeune capable of detecting low-flying helicopter, private aircraft, and surface craft to ensure range safety. Installation support is required in FY-96 for site preparation at MCB Camp Lejeune, NC. Also, FY 1996 funding will provide communications among the various operating areas for exercise control and range safety. Installation support is required in FY 1997 to install consoles, workstations, and communications (UHF/VHF/Intercom) at Camp Lejeune, NC.

**TELEMETRY EQUIPMENT:**

The Telemetry Equipment program will upgrade and modernize equipment, inclusive of related target control systems/equipment, at Fleet Telemetry (TM) stations and the Pacific Missile Range Facility (PMRF). These stations are located in Greece, Puerto Rico, Virginia and Hawaii. Present telemetry stations are based on telemetry requirements established in the early 1970s. Since then, missiles have advanced in sophistication and complexity including a move from analog to digital technology. Prior year funding has provided modest on-going improvements and modernization program to replace least reliable equipments and meet the most urgent telemetry requirements for new weapon systems. The only exception being the Puerto Rico Station. Consequently, the stations have become increasingly difficult and expensive to maintain and are not suited to handling the new digital TM formats required by new emerging weapon systems.

FY 1995 funding completed upgrade of Oceana TM station.
FY 1996 funding will upgrade tracking, processing, and display elements of Portable Airlaunched Missile Telemetry Acquisition System (PATAS).
FY 1997 funding will continue to upgrade the tracking, processing, and display elements of PATAS and upgrade the AFWTF TM station.
## WEAPON SYSTEM COST ANALYSIS EXHIBIT

### APPROPRIATION: OPN

**BUDGET ACTIVITY 3**
- **AVIATION SUPPORT EQUIPMENT**

### P-1 ITEM NOMENCLATURE
- **P-1 # 130**
- **WEAPONS RANGE SUPPORT EQUIPMENT**

### SUBHEAD #.
- **43SC**

### (Total cost in thousands of dollars)

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*Exhibit P-5 Weapon System Cost Analysis*
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Exhibit P-5 Weapon System Cost Analysis
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REMARKS:

DD Form 2446–1, JUL 87
### APPROPRIATION
OPN

### BUDGET PROCUREMENT HISTORY AND PLANNING

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<th>BUDGET ACTIVITY 3</th>
<th>P-1 ITEM NOMENCLATURE</th>
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**REMARKS:**

- Unit cost varies with Threat Configuration: Total cost shown.
- ** SRAM consists of approximately 70 projects each FY with award dates starting when funds are released and continuing until 31 MARCH of current FY.
- *** Total cost is shown. Unit cost will vary by site, due to unique turnkey installation requirements and range unique configurations.
## Appropriation

### Budget Procurement History and Planning

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<th>Line Item/Fiscal Year</th>
<th>Contractor and Location</th>
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<th>Are Spec Revisions Required?</th>
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DD Form 2446-1, JUL 87

P-1 SHOPP. LIST P-1 # 130

Page No. 12

UNCLASSIFIED

CLASSIFICATION
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P-1 LINE ITEM # 130  
Weapons Range Support Equipment  
MODIFICATION INSTALLATION SUMMARY  
(TOA, DOLLARS IN MILLIONS)

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* NUMBERS ARE ROUNDED.

1/-Actual labor costs for installing equipment are budgeted on a turnkey basis with equipment costs. Budgeted installation amounts shown reflect funding required for site preparation and advanced planning only. Based on this, no P-3A exhibits were included in this submission for these items.
P-1 LINE ITEM # 130
Weapons Range Support Equipment
MODIFICATION TITLE: CHERRY POINT UPGRADE

MODELS OF SYSTEMS AFFECTED: N/A
DESCRIPTION/JUSTIFICATION: The future Littoral Warfare Training Complex (LWTC) will link existing independent training areas, facilities, and instrumentation assets to form an expanded training complex to support NAVAL/JOINT Force Training requirements. Existing training assets proposed to be linked with LWTC include; VACAFES operating areas, Navy Dare County Mid-Atlantic EW Range, Cherry Point TACTS, MCALP Atlantic, MCALP Bogue, Camp Lejeune, Camp Geiger, Camp Davis, and MCAS New River.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A

FINANCIAL PLAN: ($ IN MILLIONS)

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METHOD OF IMPLEMENTATION: Contractor/Field Contact Team
ADMIN LEADTIME: 3 MOS
PRODUCTION LEADTIME: 13 MOS

P-1# 130  Pg. 13B
P-1 LINE ITEM # 130

INDIVIDUAL MODIFICATION

Weapons Range Support Equipment

MODIFICATION TITLE: LARGE AREA TRACKING RANGE

MODELS OF SYSTEMS AFFECTED: Mobile Sea Range (MSR), Tactical Aircrew Combat Training System (TACTS)

DESCRIPTION/JUSTIFICATION: LATR will provide air and surface tracking out to a range of 500 nautical miles. It will provide real-time monitoring of the training exercise for the battle group commander and post exercise debrief for all surface participants and remote land sites. Installation of LATR will take place at SOCAL and VACAPES. Installation support is required in FY-95 to install LATR at SOCAL and VACAPES.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A

FINANCIAL PLAN: ($ IN MILLIONS)

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PROCUREMENT

- KIT QUANTITY
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    - INSTALLED EQUIPMENT
    - ENGINEERING CHANGE ORDERS
    - DATA
    - TRAINING EQUIPMENT
    - SUPPORT EQUIPMENT

  - TOTAL PROCUREMENT COST 2 18.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2 18.9

- INSTALLATION OF MODIFICATION HARDWARE
  - FY93 EQUIPMENT 2 0.7
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- TOTAL COST 2 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2 19.6

METHOD OF IMPLEMENTATION: Contractor/Field Contact Team

ADMIN LEADTIME: 6 MOS PRODUCTION LEADTIME: 29 MOS

Contract Date: FY 1993: 2Q/FY93
Production Delivery Date: FY 1993: 4Q/FY95

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**EXPEDITIONARY AIRFIELDS (EAF)**

This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting, and visual landing aids investment items for Naval Aviation Expeditionary Airfields (EAF).

This core funding level directly supports the procurement and fielding of operational expeditionary airfield systems in the three active duty Marine Aircraft Wings and one Reserve Marine Aircraft Wing, testing and training installations, and the contingency assets for use by the Marine Expeditionary Forces during contingency operations.

A total of forty-four (44) mobile arresting gear systems as well as associated equipment and accessories are procured and fielded with these funds. Equipment procurements are based on inventory shortfalls; a product improvement program to fill or correct known deficiencies; modernizing the EAF equipment to improve maintainability, reliability, and safety-of-flight operations; and to keep pace with new aircraft and aircraft systems. Additionally, equipment procurements will facilitate forward deployment of EAF systems aboard Rapid Deployment Force/Maritime Prepositioning Squadron (RDF/MPS) ships which is a new operational requirement under the Marine Corp Master Plan, the Enhanced Maritime Prepositioning Squadron (EMPS) requirement, and the EAF 2000 concept.

The FY 1996 program provided for F-70 Tool Kit service change, production engineering and integrated logistics support for EAF procurement products, and qualification testing and evaluation for the M-29 Arresting Gear.

The FY 1996 program provides for service change kit procurements to upgrade the aged M-21 Arresting Gear to a safe condition until the M-31, next generation Marine Corp mobile Arresting Gear, is fully on line. F-70 Tool Kit service changes, Flatrack service changes to accommodate positioning EAF assets on MPS, and production engineering and integrated logistics support for EAF procurement products.

The FY 1997 budget request provides for service change kit procurements for Flattracks to accommodate pre-positioning EAF assets on MPS, and production engineering and logistics support for EAF procurement products.
## Weapon System Cost Analysis

### Appropriation/Budget Activity
- OTHER PROCUREMENT, NAVY
- 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT

### Element of Cost

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<td>SE800 Integrated Logistic Supp</td>
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<td>SE830 Production Engineering</td>
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### TOTAL
- 2,483
- 4,778
- 1,560

---

*P-1 Shopping List: Exhibit P-5 Weapon System Cost Analysis*
# BUDGET ITEM JUSTIFICATION SHEET

**A. APPROPRIATION / BUDGET ACTIVITY**  
OPN-3 Aviation Support Equipment

**B. P-1 ITEM NOMENCLATURE**  
A/C Rearing Equipment

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<td>13.2</td>
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Program Description

This program funds the procurement of common Armament Support Equipment (ASE) and common Weapons Support Equipment (WSE) under the procurement and inventory control of the NAVAL ICP (Aviation Supply Office (ASO) Philadelphia, and Ships Parts Control Center (SPCC), Mechanicsburg) and the Naval Air Systems Command.

This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) new support equipment (SE); and (c) elimination of the severe shortage of Armament Weapon Support Equipment (AWSE). These shortages prevent support of sustained operations and surge deployment of our CV battle groups.

Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Examples of this equipment are the A/S32K-1D USMC Weapons Loader, Linkless Ammunition Loading System, (LALS II), Common Detent Tester, A/E32K-3 RAMS, MHU-202/M Munitions Trailer, and the LALS Replenisher.

Shipboard/Shorebased ASE is utilized by squadrons and supporting activities to load and service aircraft weapons and guns.

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<th>Page No.</th>
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Exhibit P-40
## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

### A. Appropriation/Budget Activity
OPN-3 Aviation Support Equipment

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<td>IDENT</td>
<td>Qty</td>
<td>Total Cost</td>
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<tr>
<td>COMMON DETENT TESTER</td>
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<td>A/E32K-3 RAMS</td>
<td>A</td>
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<td>763</td>
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<tr>
<td>MHU-202/M MUNITIONS TRAILER</td>
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<td>81</td>
<td>547</td>
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<td>LALS REPLENISHER</td>
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<td>K4A/13B MUNITION TRAILER</td>
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### B. P-1 Item Nomenclature
A/C Rearming Equipment

(Total cost in thousands of dollars)

---

P-1 Shopping List
Item No. 132
Page No. 2
Exhibit P-5 Weapon System Cost Analysis

D. Date March 199
## BUDGET HISTORY PLANNING

### B. Appropriation / Budget Activity

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<th>CONTRACTOR/ LOCATION</th>
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<th>DATE OF FIRST DELIVERY</th>
<th>QTY</th>
<th>UNIT COST (SK)</th>
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<th>SPEC REV Req'd?</th>
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<td>2/1/96</td>
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<td>A/E32K-3 RAMS FY 1995</td>
<td>D&amp;D MACHINE San Antonio, TX</td>
<td>MIPR/AF</td>
<td>KELLY AFB TX</td>
<td>6/19/95</td>
<td>3/29/96</td>
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**REMARKS:**

P-1 Shopping List

Item No. 132

Page No. 3

Exhibit P-5A Procurement History and Planning
## REQUIREMENTS STUDY NOT INSTALLED NONCONSUMABLES

### Appropriation/Budget Activity

**OPN-3 Aviation Support Equipment**

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<th>Quantity In Use</th>
<th>Quantity Due in Q'FY 95 &amp; Prior Funds</th>
<th>Qty Due In W/FY 96 Prog</th>
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<td>2. COMMON DETENT TESTER</td>
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<tr>
<td>3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT</td>
<td>AIRCRAFT LAUNCH &amp; RECOVERY EQUIPMENT (ALRE) (Formerly Catapults and Arresting Gear)</td>
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<td>COST (IN MILLIONS)</td>
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This program, formerly Catapults/Arresting Gear/VLA supt. (CATS/AG), provides for procurement of major aircraft launch, recovery, and visual landing aids equipment as well as ancillary items required for installation in aircraft carriers, air capable ships, amphibious ships, and shore stations.

Most procurements respond to: (1) urgent fleet problems associated with the operation and maintenance of existing equipment, (2) expanding responsibilities in support of helicopter operations on air capable ships and (3) the demand for increased launch and recovery equipment reliability and capacity.

Shipboard-installed items procured under this program are for operational fleet carriers, air-capable, and amphibious ships. Major equipment and service changes procured in support of the Fleet Modernization Program (FMP) are generally installed by shipyard personnel during routine or restricted availabilities or regular overhauls. Non-FMP installations include minor equipments and service changes that are installed by Alteration Installation Teams (AIT) or Voyage Repair Teams (VRT) from the Naval Aviation Depots (NADEPS) under the direction of the Type Commanders and the Naval Air Warfare Center, Aircraft Division, Lakehurst, N.J. Type Commanders determine shorebased installed item requirements.

The FY 1995 program consists of service change procurements, including safety and reliability service changes for CVN Catapults and Arresting Gears, commercial Optical Landing Aids, and Visual Landing Aids for CV/ACS; PE; ILS and FMP/NFMP installations for FY 1995 and prior years' procurements, including V/STOLS OLS.


## Weapon System Cost Analysis

### Appropriation/Budget Activity
- OTHER PROCUREMENT, NAVY
- 3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT

### (DOD EXHIBIT P-5)
- P-1 Item Nomenclature # 133
- AIRCRAFT LAUNCH & RECOVERY EQUIPMENT
  (Formerly Catapults and Arresting Gear)
- SUBHEAD No. 435J

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**REMARKS:**
*Engineering & Manufacturing Development*

---

: P-1 Shopping List | : Item No. | : Page No. | : Exhibit P-SA Procurement History and Planning |
: #133 | : 3 | : UNCLASSIFIED |
MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

Date: MARCH 1996

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

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Total for SERVICE CHANGES, V/STOL OLS,
LRLS, ISIS/ADMACS, IFLOLS 22.9 11.2 12.2 7.7 16.8 15.9 17.2 103.9

1/ P-3a exhibits for FY-98 and beyond new starts are not included in this submission.
**AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)**

**MODIFICATION TITLE AND NO.:** Service Changes

**MODELS OF SYSTEMS AFFECTED:** CV/CVN

**DESCRIPTION/JUSTIFICATION:** Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capacity.

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**METHOD OF IMPLEMENTATION:** Open Competition

**ADMINISTRATIVE LEAD TIME:** Various

**PRODUCTION LEAD TIME:** Various

**CONTRACT DATES:**

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**FOOTNOTES:**

* Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.

AP: Advance Planning.

**P-1 LINE ITEM:** # 133

**PAGE NO.:** 5

**Exhibit P-3A Individual Modification**
**AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)**

**MODIFICATION TITLE AND NO:** Service Changes

**MODELS OF SYSTEMS AFFECTED:** Air Capable Ships (ACS)

**DESCRIPTION/JUSTIFICATION:** Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capability.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:** Various

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**METHOD OF IMPLEMENTATION:** Open Competition

**ADMINISTRATIVE LEAD TIME:** Various

**PRODUCTION LEAD TIME:** Various

**CONTRACT DATES:**

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**FOOTNOTES:**

* Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.

AP: Advance Planning.

**P-1 LINE ITEM: # 133**

**PAGE NO.:** 6

**Exhibit P-3A Individual Modification**
AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

MODIFICATION TITLE AND NO: Service Changes

MODELS OF SYSTEMS AFFECTED: Shore Facilities

DESCRIPTION/JUSTIFICATION: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment and (2) the demand for increased launch and recovery equipment reliability and capacity.

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METHOD OF IMPLEMENTATION: Open Competition

ADMINISTRATIVE LEAD TIME: Various

PRODUCTION LEAD TIME: Various

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INSTALLATION SCHEDULE:

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FOOTNOTES:

* Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.

AP Advance Planning.

Less than $50,000.00.
AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

MODIFICATION TITLE AND NO: \ Vertical /Short Take Off and Landing Optical Landing System (VISTOL OLS)\n
DESCRIPTION/JUSTIFICATION: OPTICAL LANDING AID FOR AMPHIBIOUS ASSAULT SHIPS TO PROVIDE DAY/NIGHT ALL WEATHER VISTOL LANDING CAPABILITY.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FULL SCALE DEVELOPMENT / TESTING TO COMPLETED 2/94. IN PRODUCTION

FINANCIAL PLAN: ($ in Million)

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METHOD OF IMPLEMENTATION: VOYAGE REPAIR TEAM
ADMINISTRATIVE LEAD TIME: 1 MONTH
PRODUCTION LEAD TIME: 18 MONTHS

CONTRACT DATES:
FY-96: N/A
FY-97: N/A
DELIVERY DATE:
FY-96: N/A
FY-97: N/A

INSTALLATION SCHEDULE:

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INPUT
1 3 3 3

OUTPUT
1 3 3 3

FOOTNOTES:

P-1 LINE ITEM: # 133
PAGE NO.: 8

Exhibit P-3A Individual Modification
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**Production Rates**

- **Minimum:** 1100
- **Maximum:** 9900
- **Peak:** 9000
- **Total:** 9600

**Procurement Lead Time**

- **Admin:**
  - Lead Time:
  - Total:
  - Time:

- **Initial:**
  - Total:
  - Lead:

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MEMO ENTRIES:

- TBD AS32P-25
- CVs/VPNs (12)
- LHA (5 @ 2)
- LHD (6 @ 2)
- TRAINERS
- TYCOM

TOTAL: 71
### BUDGET ITEM JUSTIFICATION SHEET

<table>
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<tr>
<th>APPROPRIATION/BUDGET ACTIVITY</th>
<th>P-1 ITEM NOMENCLATURE</th>
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### PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:

This item provides new and replacement meteorological equipment for all Naval/Marine Corps Air Stations and all Navy ships and other activities required to take weather observations and provide safety of flight information. The procurement has been thoroughly coordinated with the other DOD and civilian agencies. Equipment is funded under the following programs:

The Mini-Rawin System (MRS) is a portable commercial off-the-shelf upper air sounding system used to measure pressure, temperature, humidity and wind speed and direction from the surface to the lower stratosphere. $0.8 million in FY-96 (60 units) and $0.9 million in FY-97 (68 units) will support upgrade of existing units to enable use of the Global Positioning System (GPS).

The Next Generation Radar (NEXRAD) Remote includes all the hardware and software required for the request, display, local storage and local annotation and distribution of weather/storm data from National Weather Service, Federal Aviation Administration and Air Force weather radars. The Navy is buying remote user processors, not complete radars. $1.5 million (5 systems) in FY-95 were budgeted for NEXRAD.

The Automated Surface Observing System (ASOS) is an automatic system to sense, collect, display and disseminate real time meteorological information at both Navy and Marine Corps Air stations and remote sites such as weapon ranges and port facilities. $3.8 million (19 systems) in FY-95 and $3.4 million (16 systems) in FY-96 is budgeted for ASOS.

The Tactical Environmental Support Systems (TESS) Upgrade - Procure terminals, input/output control devices, CPUs and back planes to replace original equipment for block upgrades and P3I. $2.9 million in FY-95, $8.2 million in FY-96 and $7.1 million in FY-97 will support the TESS evolutionary acquisition Upgrade. TESS software is required to be upgraded to X-Windows with a C2 Secure Operating System as required for cutover of connectivity to DON/DISNET. Associated hardware upgrades that are required include CPU cards, RAM memory, clock, BUS, disk storage and disk controllers. TESS Upgrades planned for FY95-97 include Fleet Numerical Meteorology and Oceanography Center (FNMO) and Naval Oceanographic Office (NAVO) and the five regional centers at Guam, Pearl Harbor, Norfolk, Sultland and Rota Spain, and at afloat and ashore sites.
The Navy Integrated Tactical Environmental Subsystem (NITES) provides tactical environmental support to non-TESS(3) ships and ashore command and control and other facilities as inputs to mission planning systems and tactical decision aids by establishing remote workstations. NITES merges with the TESS Upgrade in FY-96.

Shipboard Meteorological and Oceanographic Observing System (SMOOS) P3I Sensor Upgrades $2 million in FY-96 and $3 million in FY-97.

Fleet Marine Force Meteorological Equipment - Meteorological/Sensors Equipment are required to outfit Mobile Facilities (MF) Marine Corps Meteorological Support.

Miscellaneous Meteorological Equipment - General Purpose Met Equipment covers unscheduled purchase of items such as: laser recorders, facsimile recorders, runway temperature instruments, special tape recorders, power supplies, printed circuit module, etc.

The Supplemental Weather Radar (SWR) is a state-of-the-art, small, lightweight doppler radar system that will be located at sites where NEXRAD coverage is not available to Navy/USMC activities. The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena that are developing near or moving towards USN and USMC units. $980K is budgeted in FY-96 and $2.5 million in FY-97 for SWR.

Training Support - Necessary to train the initial cadre of instructional personnel with the end item.

Installation of Equipment - Installation efforts include plans, site surveys, BSEPS, equipment installation and checkout.

MODIFICATION SUMMARY ($M)
Listed below are the costs (i.e. hardware and installation) for equipment being procured in this line item that have associated installation costs budgeted:

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P-1 SHOPPING LIST
ITEM NO. 134 PAGE NO. 2

Exhibit P-49
UNCLASSIFIED
CLASSIFICATION
### WEAPON SYSTEM COST ANALYSIS

#### B. APPROPRIATION/BUDGET ACTIVITY
OP:N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT

#### C. P-1 ITEM NOMENCLATURE
METEOROLOGICAL EQUIPMENT  53SP

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**TOTAL PROGRAM**

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DATE: March 1996

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

ITEM NO.: 134  PAGE NO.: 3

Exhibit P-5

UNCLASSIFIED

CLASSIFICATION
## WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING

### B. APPROPRIATION/BUDGET ACTIVITY

**OPN BA3 - AVIATION SUPPORT EQUIPMENT**

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### C. P-1 ITEM NOMENCLATURE

**METEOROLOGICAL EQUIPMENT**

### D. REMARKS

*UNIT PRICE IS BASED ON SITE UNIQUE REQUIREMENTS*
### INSTALLATION SUMMARY

**TOA, Dollars in Thousands**

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THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNCING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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<th>FY 96</th>
<th>FY 97</th>
<th>FY 98</th>
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RCR DE
PROCUREMENT:
- Initial Kit
- Installation Kits
- Installation Kits Nonrecurring Equipment
- Equipment Nonrecurring Engineering Change Orders
- Data Training Equipment
- Support Equipment
- Other
- In-hone Contractor Support
- Installation or Hardware
- PRIOR YEAR EQUIP
- FY 98 EQUIP
- FY 99 EQUIP
- FY 00 EQUIP
- FY 01 EQUIP
- FY 02 EQUIP

TOTAL INSTALLATION COST:

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METHOD OF IMPLEMENTATION:

- AIR
- ADMINISTRATIVE LEADTIME: 3 MONTHS
- PROCUREMENT LEADTIME: 3 MONTHS

CONTRACT DATES:
- FY 1995:
- FY 1996:
- FY 1997:
- FY 1998:
- FY 1999:
- FY 2000:
- FY 2001:

INSTALLATION SCHEDULE:

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TOTAL (28)
UNCLASSIFIED

MODIFICATION TITLE: MINI-RAWIN SYSTEM UPGRADES (SHORE)
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: THE MRS IS A PORTABLE COMMERCIAL OFF-THE SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: ($ in millions)

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ADMINISTRATIVE LEADTIME: 3 MONTHS PROCUREMENT LEADTIME: 3 MONTHS

METHOD OF IMPLEMENTATION:

| CONTRACT DATES: |
| FY 1995: |
| FY 1996: |
| FY 1997: |

DELIVERY DATES:

| FY 1995: |
| FY 1996: |
| FY 1997: |

INSTALLATION SCHEDULE:

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TOTAL

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*33 UNITS ARE FOR MOBILE TEAMS AND REQUIRE NO INSTALLATION.
**UNCLASSIFIED**

**MODIFICATION TITLE:** 53SP/SP130  AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) (ASHORE)

**DESCRIPTION/JUSTIFICATION:** ASOS IS AN AUTOMATIC SYSTEM TO SENSE, COLLECT, DISPLAY AND DISSEMINATE REAL-TIME METEOROLOGICAL INFORMATION AT BOTH NAVY AND MARINE CORPS AIR STATIONS AND REMOTE SITES SUCH AS WEAPON RANGES AND ORI FACILITIES.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

**FINANCIAL PLAN:** ($ in millions)

<table>
<thead>
<tr>
<th>FY 95</th>
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- **EQM:**
- **PROCUREMENT:**
  - Kit Quantity
  - Installation Kits
  - Equipment Nonrecurring
  - Engineering Change Orders
  - Data Training Equipment
  - Support Equipment
  - Other Interim Contractor Support
- **Hardware Equipment**
- **FY 95 EQUP**
- **FY 96 EQUP**
- **FY 97 EQUP**
- **FY 98 EQUP**
- **FY 99 EQUP**
- **FY 00 EQUP**
- **FY 01 EQUP**
- **FY 02 EQUP**

**TOTAL INSTALLATION COST**

| Total | 53 | 13 |

**TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:**

| Total | 53 | 11.7 |

**ADMINISTRATIVE LEADTIME:** 1 MONTH

**PROCUREMENT LEADTIME:** 8 MONTHS

**CONTRACT DATES:**
- FY 1995: Jan 95
- FY 1996: Nov 96
- FY 1997:
- FY 1998:
- FY 1999:
- FY 2000:

**DELIVERY DATES:**
- FY 1995: Aug 95
- FY 1996: Aug 96
- FY 1997:

**INSTALLATION SCHEDULE:**

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**OUTPUT**

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MODIFICATION TITLE: 53SP/SPW0 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS) UPGRADE (SHIP)/UNITS (SHIP)
DESCRIPTION/JUSTIFICATION: TESS UPGRADE PROCURES TERMINALS, INPUT/OUTPUT CONTROL DEVICES, CPUS AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR BLOCK UPGRADES. TESS SOFTWARE UPGRADES ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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METHOD OF IMPLEMENTATION:

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TOTAL | 752 |

*Quantities reflect platforms

ITEM NO: 134 PAGE NO: 9

Exhibit P-3A
### Development Status/Major Development Milestones:

**Financial Plan ($ in millions)**

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**RotAE Procurement:**

- Kit Quantity
- Installation Kits
- Installation Kits Nonrecurring Equipment
- Equipment Nonrecurring
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Other
- Interm Contractor Support

**Installation of Hardware**

- FY 95 EQUIP
- FY 96 EQUIP
- FY 97 EQUIP
- FY 98 EQUIP
- FY 99 EQUIP
- FY 00 EQUIP
- FY 01 EQUIP
- FY TC EQUIP

**Total Installation Cost**

- VAR 1.6
- VAR 1.8
- VAR 5.2
- VAR 5.1
- VAR 2.9
- VAR 4.5
- VAR 3.9
- VAR 4.2
- VAR 29.2

**Total Procurement Cost**

- VAR 29.2

**Method of Implementation:**

- All
- Administrative Leadtime: VAR
- Procurement Leadtime: VAR

**Contract Dates:**

- FY 1995: VAR
- FY 1996: VAR
- FY 1997: VAR

**Delivery Dates:**

- FY 1995: VAR
- FY 1996: VAR
- FY 1997: VAR

**Installation Schedule:**

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**Total**

| ITEM NO: 134 PAGE NO: 10

**Exhibit P-3A**

**UNCLASSIFIED**
MODIFICATION TITLE: 535P/SP-195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHIP)
MODELS OF SYSTEMS AFFECTED: NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACILITIES AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AIDS BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: ($ in millions)

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**ROT & PROCUREMENT:**
- KITS Quantity:
  - Installation Kit
  - Installation Kit Nonrecurring Equipment
  - Equipment Nonrecurring Engineering Change Orders
  - Data Training Equipment
  - Support Equipment
  - Other
  - Intern Contractor Support
  - Installation of Hardware
  - PRIOR YR EQUIP
  - FY 95 EQUIP
  - FY 96 EQUIP
  - FY 97 EQUIP
  - FY 98 EQUIP
  - FY 99 EQUIP
  - FY 00 EQUIP
  - FY 01 EQUIP
  - FY 01 EQUIP

**TOTAL INSTALLATION COST**:
\[ 43 \times 0.4 = 17.2 \]
\[ 79 \times 29 = 2271 \]
\[ 64 \times 4 = 256 \]
\[ 143 \times 16 = 2288 \]
\[ 143 \times 50 = 7150 \]

**METHOD OF IMPLEMENTATION:**
- AIR
- ADMINISTRATIVE LEADTIME: 1 MONTH
- PROCUREMENT LEADTIME: 2 MONTHS

**CONTRACT DATES:**
- FY 1995: Jan-95
- FY 1996: Apr-96
- FY 1997: Jul-97

**DELIVERY DATES:**
- FY 1995: Sep-95
- FY 1996: Oct-96
- FY 1997: Nov-97

**INSTALLATION SCHEDULE:**

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*Quantities reflect systems not sites*

**ITEM NO: 134 PAGE NO: 11**
**UNCLASSIFIED**

**MODIFICATION TITLE:**
53SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHORE)

**MODELS OF SYSTEMS AFFECTED: **
NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TEX DC SHIPS AND AShORE COMMAND AND CONTROL AND OTHER FACILITIES AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AIDS BY ESTABLISHING REMOTE WORKSTATIONS.

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:**

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**METHOD OF IMPLEMENTATION:**

Aft Administrative Leadtime: 1 Month Procurement Leadtime: 2 Months

**CONTRACT DATES:**
FY 95: Jan 95  FY 96: Jan 96  FY 97: Jan 97

**DELIVERY DATES:**
FY 95: Apr 95  FY 96: Apr 96  FY 97: Apr 97

**INSTALLATION SCHEDULE:**

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<tr>
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<th>FY 97</th>
<th>FY 98</th>
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<td>OUTPUT</td>
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**INSTALLATION SCHEDULE:**

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**ITEM NO. 134 PAGE NO. 12**

Exhibit P-3A

UNCLASSIFIED
UNCLASSIFIED

MODIFICATION TITLE: SSMPS
INFERENCE: SHIPBOARD METEOROLOGICAL AND OCEANOGRAPHIC OBSERVING SYSTEM (SMOOS) P3 (SHIP)

DESCRIPTION: SMOOS P3 will provide upgrades to existing suites to add smaller sensors (FY06/07) i.e., radiometers, and other sensors that collect atmospheric pressure, temperature, and wind direction data. LIDARS (FY08/09) and transmissometers and other miscellaneous sensors (FY00/01).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ($ in millions)

<table>
<thead>
<tr>
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<th>FY 96</th>
<th>FY 97</th>
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</tr>
<tr>
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<tr>
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<td>VAR 4.5</td>
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<td>PROCUREMENT LEADTIME:</td>
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CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:
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OUTPUT:
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*Quantities reflect platforms.

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Exhibit P-3A
UNCLASSIFIED
**Modification Title:** SUPPLEMENTAL WEATHER RADAR (SWR) (SHORE)

**Description/Justification:** The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena developing near of moving towards USN and USMC units.

**Financial Plan:** ($ in millions)

<table>
<thead>
<tr>
<th>FY 95</th>
<th>FY 96</th>
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<th>FY 98</th>
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**Method of Implementation:**
- AIT: Administrative Leadtime: 2 months
- Procurement Leadtime: 3 months

**Contract Dates:**
- FY 1995:
- FY 1996: Mar-96
- FY 1997: Oct-96

**Delivery Dates:**
- FY 1995:
- FY 1996: Jun-96
- FY 1997: Dec-96

**Installation Schedule:**

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<th>FY 98</th>
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</thead>
<tbody>
<tr>
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<td>3</td>
<td>4</td>
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</table>

**Input:**
- 1 | 1 | 1 | 1 |
- 1 | 1 | 1 | 1 |

**Output:**
- 1 | 1 | 1 | 1 | 1 |
- 1 | 1 | 1 | 1 | 1 |

**Installation Schedule:**

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- 1 | 1 | 1 | 1 |

**Output:**
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- 1 | 1 | 1 | 1 | 1 |

**Total:** 9

**Exhibit P-3A**

UNCLASSIFIED
### Development Status/Major Development Milestones

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**RDT&E Procurement:**
- Kit Quantity
- Installation Kits
- Installation Kits Nonrecurring Equipment
- Equipment Nonrecurring
- Engineering Change Orders
- Data
- Training Equipment
- Support Equipment
- Other
- Intern Contractor Support
- Installation of Hardware
- Prior Year Equip
- FY 95 Equip
- FY 96 Equip
- FY 97 Equip
- FY 98 Equip
- FY 99 Equip
- FY 00 Equip
- FY 01 Equip
- FY 02 Equip

**Total Installation Cost:**

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**Method of Implementation:**
- Administrative Leadtime: 3 months
- Procurement Leadtime: 21 months

**Contract Dates:**
- FY 1995
- FY 1996
- FY 1997

**Delivery Dates:**
- FY 1996
- FY 1997

**Installation Schedule:**

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**Output:**
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- 3
- 3

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**Total:** 4

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**Item No.: 134 Page No.: 15**
### REQUIREMENTS STUDY - NOT INSTALLED NONCONSUMABLES

#### B. APPROPRIATION/BUDGET ACTIVITY

**OPN B-33 - AVIATION SUPPORT EQUIPMENT**

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<th>QUANTITY ON HAND &amp; NOT IN USE</th>
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#### C. P-1 ITEM NOMENCLATURE

**METEOROLOGICAL EQUIPMENT**

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#### Exhibits

- Exhibit P-21B
- P-1 SHOPPING LIST

**DD FORM 2447-1, JUN 86**

**UNCLASSIFIED CLASSIFICATION**

**A. DATE**

March 1996

**Item No. 134**

**Page No. 17**
The Naval Air Systems Command is tasked to fund transition of CV photographic labs from traditional film technology to digital imaging technology, CNO Memo Ser 09B/2U2501983 of 23 Oct 92 applies. The CV main photographic lab supports the full visual imaging program afloat to include: Carrier Intelligence Center (CVIC) support (Bomb Damage Assessment (BDA) and target imagery), incidents and accidents at sea, medical media, copy and reproduction, investigation, aerial and surface surveillance, combat camera, safety, training and Public Affairs Office (PAO).

Electronic/digital imagery acquisition media is rapidly expanding (ATARS, TAMPS, JSIPS). It is imperative the CV photo lab be able to interface with the new electronic media. Hard copy imagery is required in the documentation of real world events (drug interdiction program, humanitarian relief efforts, shipboard and flight operational documentation). This imagery is used at all levels within DoD including CNO SECNAV, JCS, National Military Command Center and the White House. Hard copy photographs are used in the decision making process by the Fleet and Battle Group Commanders and directly impacts the overall Navy mission.

Digital technology will generate less environmentally damaging effluents, and have no impact on shipboard water consumption currently use in traditional photographic processes. Electronic imaging is less manpower intensive and requires less maintenance and overall support resources than traditional mechanical hardware.

In order to fully utilize the film technology employed on CV’s, a two phase transition plan will be implemented. An interim photo lab will be installed to interface with existing film technology which will allow the CV to maintain 100% mission capability until final digital installation. Installations of the interim systems have begun in FY 94, to completed in FY 95. LANT AND PAC deployment schedules and pier-side availability determine the installation schedule. Complete digital capability will commence in late FY 95/early FY 96, to be completed in FY 01.

Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipments/software required to tie Phase I and Phase II labs together. Phase I equipments were funded in FY 95 and prior, Phase II will be funded in FY 95 through FY 01.
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## BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-6A)

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**SUBHEAD:** Y35X

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### Remarks

P-1 SHOPP LIST  
ITEM NO. 135  
PAGE NO. 3  
UNCLASSIFIED
# Modification Installation Summary

**P-1 Line Item**
**Other Photographic Equipment**

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**P-1 Shop List**
**Item No. 135**

---

**Page No.**
**4**

**Exhibit P-3N**
INDIVIDUAL MODIFICATIONS (P-3A)

MODIFICATION TITLE: Digital Photo Lab (Phase I & II)
MODELS OF SYSTEMS AFFECTED: CVs, CVNs, CNET, PNCLA
DESCRIPTION JUSTIFICATION: Tasked to fund transition CV/CVN Photo Lab from traditional film to imagery. CNO memo 098/2U2501983 of 23 Oct 92 applies. Phase I initiates a transition from "wet" photographic processes to digital imaging process. Phase II enhances the digital capability and replaces, to the maximum extent possible, certain aspects of the "wet" color processes within the limits of current technology. Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipment/software required to tie Phase I and II labs together. Phase I equipment was funded in FY 95 and prior. Phase II will be funded in FY 95 through FY 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE: N/A
FINANCIAL PLAN: ($ in Millions)

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METHOD OF IMPLEMENTATION: All Install Team
ADMINISTRATIVE LEADTIME: 2 MONTHS
PRODUCTION LEADTIME: 1 MONTH

CONTRACT DATES:
FY 1996: Jun-96
FY 1997: Jun 97

DELIVERY DATE:
FY 1996: Sep-96
FY 1997: Sep-97

P-1 SHOOP LIST
ITEM NO. 135
### INDIVIDUAL MODIFICATIONS (P-3A cont.)

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**ITEM #5: Unknown**

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P-1 SHOPLIST
ITEM NO. 136

PAGE NO.
7

UNCLASSIFIED
### OTHER PROCUREMENT, NAVY

**NAVMAT FORM 7110.1**

**BUDGET ITEM JUSTIFICATION SHEET**

**OTHER PROCUREMENT, NAVY**

**NAVMAT FORM 7110.1**

**MARCH 1996**

### 3 – AVIATION SUPPORT EQUIPMENT

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This account provides for the acquisition, upgrade and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew.

**PRC-112 AIRCREW SURVIVAL RADIO – SY040**

- Navy (NAVSEA/NAVAR)/US Army program with Navy as procuring service. The AN/PRC–112 radio provides beacon/voice communication and acts as a transponder supplying ranging and identification information. Combined with the Downed Aircrew Locating System, accurately determines an aircrewman's location in range and bearing. AFP granted second quarter FY 1989. Inventory Objective (IO) is 4,000.

**PRC-112 P3I (GPS) – SY045**

- Survival system upgrade to provide rapid, line–of–sight, two–way Global Positioning System (GPS) data communication capability between a survivor using a modified AN/PRC–112 Radio Set (Aircrew Survival Radio). OSD INTEREST PROGRAM. IO is 4,000.

**PRC-112 P3I (GPS) INTERROGATOR – SY046**

- Portable Interrogator Equipment to send, receive and decipher data burst information from the AN/PRC–112 P3I (GPS) Radio. IO is 48.

**CHEMICAL–BIOLOGICAL (CB) PROTECTION UPGRADE FOR HELO AIRCREWS (CB HELO UPGRADE) – SY050**

- CB personal protective equipment provides Head–Eye Respiratory (HER) protection for Marine helo and TACAIR aircrew rapid deployment forces. Support, maintenance and training equipment has been provided. System upgrades are required to correct design deficiencies and replace components due to age life limitations. IO is 3,190.
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**OTHER PROCUREMENT, NAVY**

**NAVMAT FORM 7110.1**

**BUDGET ITEM JUSTIFICATION SHEET**

**BUDGET ACTIVITY**

**3 – AVIATION SUPPORT EQUIPMENT**

**P-1 ITEM NOMENCLATURE**

**AVIATION LIFE SUPPORT SYSTEMS**

**LASER EYE PROTECTION — SY080**

— Laser Eye Protection which is both day and night capable and compatible with new TACAIR and helicopter helmets to protect against existing and projected laser threat. IO is 7,800.

**CWU-60/P — SY100**

— An exposure suit for Carrier On-Board Delivery/Vertical On-Board Delivery (COD/VOD) aircrews. IO is 4,350.

**HELICOPTER EMERGENCY EGRESS DEVICE P3i (HEED P3i) — SY110**

— An improved and smaller device than the current HEED. Will provide improved performance and compatibility with other aircrew life support and personal protective equipment and increased maintainability and reliability. IO is 5,300.

**AIRCREW INTEGRATED SURVIVAL/ARMOR PROTECTION (AISAP) — SY120**

— An optimized vest/armor system which integrates life preserver, life capabilities for all combat helicopter aircrews. IO is 3,568.

**PASSENGER AND TROOP SURVIVAL SYSTEM (PATSS) — SY130**

— A system developed to provide personal flotation that is activated and compatible with other protective, survival and combat equipment. IO is 8,652.

**PASSENGER ANTI-EXPOSURE SURVIVAL SYSTEM (PAESS) — SY140**

— Provides an easily donned reusable anti-exposure system which will prolong survival time in cold water and increase chances of a successful rescue at sea for passengers. IO is 2,100.
### EXTREME COLD WEATHER SURVIVAL KITS – SY145
- The kit supplements the items in the survival vest and the life rafts in case of mishap over land in extreme cold weather. IO is 147.

### MINI-RAFT BACK PACK – SY150
- Constant wear emergency floatation platform for helicopter aircrewman. IO is 5,900.

### REVERSE OSMOSIS DESALINATOR – SY160
- Emergency water supply for down aircrewman stowed on board multi-place life rafts. It creates fresh water from salt water. IO is 2,300.

### NAVY COMBAT EDGE – SY170
- This is a Congressional interest program. An integrated aircrew flight ensemble which provides significant G protection by an extended coverage lower anti-G garment used with regulated positive pressure breathing balanced by an upper torso counterpressure vest. This system is an adaption to the USAF Combat Edge system to make it compatible with USN/USMC aircraft and aircrews. IO is 1,821.

### AMEUA – SY175
- This is a Congressional interest program. An integrated aircrew flight ensemble which provides small and large aviators, including females, with new and/or upgraded systems to ensure safe and effective performance in Naval aircraft. IO is 1,200.
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**REMARKS:**

1) Multi-service procurement, additional quantities from other services were involved.
2) Contract option years, only the firm fixed price unit cost is shown. Provisioned line items and technical data are not included.
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REMARKS:
1) First year procurement is a sole source procurement through the GSA catalogue, to satisfy an Urgent HQTRs USMC requirement. Follow-on procurements will be competitive.
2) FY 95/96 buys are associated with upgrading existing assets for immediate Fleet use.
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**REMARKS**

CB HELO UPGRADE. FY 95 MANUFACTURING LEAD TIME FOR THIS EFFORT REFLECTS THE DELIVERY OF FLEET ASSETS TO THE CONTRACTOR OR INCORPORATION OF UPGRADES BY THE CONTRACTOR AND RETURN OF UPGRADED SYSTEMS TO THE FLEET.

PRC—112: FY 96 RE-ORDER IS REQUIRED TO COMPLETE INVENTORY OBJECTIVE.

PRC—112 P3A (GPS). DELIVERIES HAVE SLIPPED ON USAF SOLE SOURCE CONTRACT.

ASAP: FIRST PROCUREMENT IS SOLE SOURCE THROUGH GSA TO MEET URGENT USMC REQUIREMENT. FOLLOWING PROCUREMENT WILL BE COMPETITIVE WITH OPTIONS.
## FY 1996/97 BUDGET PRODUCTION SCHEDULE

### PAES 5
- **Program**:
  - FY 1996: 1687
  - FY 1997: 2651

### PAES 50
- **Program**: FY 1996
  - 456
  - FY 1997: 550

### EXTREME COLD WEATHER KIT (ECW)
- **Program**: FY 1996
  - 147

### MINI-RAFT BACKPACK
- **Program**: FY 1996: 460
  - FY 1997: 660

### NAVY COMBAT EDGE
- **Program**: FY 1996: 2300

### AMELIA
- **Program**: FY 1996: 300
- FY 1997: 300

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### REMARKS
- **PAES**: First and second buys are to upgrade existing suits.
- **AMELIA**: Consists of many items to improve accommodation of women continuity in production is not possible.

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**DD FORM 2455, ADD 17**
### FY 1996/97 BUDGET PRODUCTION SCHEDULE

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**FY 1996/97 BUDGET PRODUCTION SCHEDULE**

**AVIATION LIFE SUPPORT SYSTEMS**

**DATE**

**MARCH 1996**
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<td>CODE No.</td>
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<td>CODE No.</td>
<td>SY145 - EX COLD WEATHER SURVIVAL KIT 147</td>
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<td>CODE No.</td>
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<td>CODE No.</td>
<td>SY170 - NAVY COMBAT EDGE 1,821</td>
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<tr>
<td>CODE No.</td>
<td>SY175 - AMELIA 1,200</td>
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**MEMO ENTRIES**

- CODE No. SY040 - PRC-112 Survival Radio, Tycoms/Squadron 4,000
- CODE No. SY045 - PRC-112 P3I (GPS) Radio, Tycoms/Squadron 4,000
- CODE No. SY050 - CB Helo Upgrade, Tycoms/Squadron 3,190
- CODE No. SY055 - LASER EYE PROTECTION, Tycoms/Squadron 7,800
- CODE No. SY100 - CWU-60/P, Tycoms/Squadron 4,350
- CODE No. SY110 - HEED P3i, Tycoms/Squadron 5,300
- CODE No. SY120 - AISAP (ARMOR), Tycoms/Squadron 3,568
- CODE No. SY130 - PATSS, Tycoms/Squadron 8,652
- CODE No. SY140 - PAESS, Tycoms/Squadron 2,100
- CODE No. SY145 - EX COLD WEATHER SURVIVAL KIT, Tycoms/Squadron 147
- CODE No. SY150 - MINI - RAFT BACKPACK, Tycoms/Squadron 2,300
- CODE No. SY170 - NAVY COMBAT EDGE, Tycoms/Squadron 1,821
- CODE No. SY175 - AMELIA, Tycoms/Squadron 1,200
### BUDGET ITEM JUSTIFICATION SHEET

**P-40**

**DATE:** March 1996

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<th>APPROPRIATION/BUDGET ACTIVITY</th>
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**ITEM DESCRIPTION/JUSTIFICATION:**

Airborne Mine Countermeasures (AMCM) Equipment is used by MH-53E helicopters to counter the threat of sea mines. The equipment is divided into two broad categories, minesweeping and minehunting: (1) minesweeping is performed by mechanical or Influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In mine hunting the object is to actually locate and classify, mark, or neutralize the mine, usually by means of high resolution sonar. AMCM squadrons currently have capability in mechanical, magnetic, and acoustic sweeping, mine surveillance and marking. Its mission is to locate, classify and neutralize moored and bottom mines.

S0061 - The MK-105 magnetic minesweeping system is a hydrofoil platform that carries a turbo-generator power pack and is towed by a MH-53E helicopter, allowing for safe, high speed sweeping of course magnetic influence mines at twice the output of the current MK-105. Technological upgrade increases supportability, reliability and maintainability (R&M), and increases operational effectiveness. ECPs are analyzed, prioritized and screened to accomodate replacement of subsystems/components because of obsolescence.

S0060 - The funds provided are for the procurement of the A/N37U-1 Mechanical Minesweeping Systems.

S0020 - The funds provided are for the modification of systems to accomodate replacement of subsystems/components because of obsolescence. ECPs are analyzed, prioritized and screened to accomodate replacement of subsystems/components.

S0062 - The funds provided are for the procurement of the Multi-mission Craft Air Cushion (MCAC).

DD Form 2454, JUN 86
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REMARKS
S0061 - MK-105 UPGRADE KITS - THE FUNDING FOR FY 1997 WILL BE USED TO PROCUREMENT SUPPORT EQUIPMENT, PUBLICATIONS, AND FACTORY TRAINING FOR THE UPGRADED MK-105 SYSTEMS.
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**Remarks**

- R = PROCUREMENT REQUEST RELEASE
- A = CONTRACT AWARD

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**Remarks**

- R = Procurement Request Release
- A = Contract Award

**Classification**

UNCLASSIFIED
MODIFICATION INSTALLATION SUMMARY
(EXHIBIT P-3N)
(TOA, Dollars in Millions)

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P-1 SHOPPING LIST
ITEM NO. 137
PAGE NO. 7

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The LAMPS MK III Ship/Air Weapon System is a computer integrated ship/helicopter system that increases the effectiveness of surface combatants. The Weapon System is a multi-appropriation funded program. The CPM3 program funds the LAMPS MK III shipboard equipment that is to be installed in existing ships being retooled with the LAMPS MK III Weapon System. Procured under this line are:

1. AN/USQ-4, a shipboard terminal data transmission device.
2. HLS (Helicopter Landing System), including Recovery, Assist, Securing, and Traversing (RAST) System, the Horizon Reference Set (HRS), and the Flight Deck Status Signal System (SDSS).

The FY 1996 budget request provides for the procurement of four (4) Acoustic Processor System (4PS), System Integration, Logistics, Production Engineering Support and advanced planning associated with installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995.

P40 EXHIBIT

OTHER PROCUREMENT NAVY

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**Additional notes:**
- AP: ADVANCE PLANNING
- FYDP: FUTPDP
- In addition, AN/USQ-4 (4 units) and HLS-5 (4 units) were procured with prior year funds and are to be installed concurrently with the Acoustic Processor budgeted in FY 95.
- Installation costs are prorated in a complex ship alteration, costs for the installation of individual equipment is not available.
- The FY 95 procurement of (4) Acoustic Processors is an economical buy.

EXHIBIT P-3: Individual Modification
### PROCUREMENT HISTORY & PLANNING

**EXHIBIT P-5A**

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| | INITIAL | ACOUSTIC | AFT 1 OCT | MANUFACT | TOTAL | AFTER 1 OCT | |
| | 1 OCT | PROC | 5 | 7 | 12 | |

ORDERER

136

PG 8
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DD FORM 2447S, JUN 86

P-1
ITEM NO. 138
SHOPPING LIST PAGE NO. 8
EXHIBIT P-23A
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This line procures photographic film processing, printing, and film interpretation equipment for the exclusive support of the on-going intelligence mission of CV/CVN's. Specifically, this equipment primarily supports the mission of the F-14 borne Tactical Airborne Reconnaissance Pod System (TARPS) as well as related Carrier Intelligence Center (CVIC) photographic requirements, and the hand held intelligence photography collected by the embarked Airwing (nine squadrons) and deployed Carrier Battle Group (CVBG). The CVBG normally consists of the CV/CVN and its support ships.

Also, this equipment supports the photographic intelligence that is disseminated from internal and National sources to the Airwing (CVW) and CVBG. TARPS imagery is often provided to in-theater NATO forces as well. TARPS remains the only tactical aerial photographic reconnaissance asset in theater and is directly controlled by the Theater Commander.

The FY95-97 funds are continuing to procure the needed inventory objective of subject equipments. They are also providing new equipments for scanning and digital dissemination of TARPS film imagery.
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**PROGRAM DESCRIPTION/JUSTIFICATION/EXECUTION.** The NAVAIRSYSCOM (AIR-3.1.1) Stock Surveillance Equipment (SRV) Program furnishes varied specialized and ancillary test equipment/systems for both air-to-air and air-to-ground missiles, ordnance, ammunition and their related components. The SRV Program directly supports the System Effectiveness Engineering (SEE) Program. This helps to provide accurate indicators for Fleet Readiness in regard to safety, serviceability, reliability, availability, quality and mission effectiveness. The following SEE activities participate in the SRV Program:

- NAVSURFWARDCEN Crane Div., WPNSTA YOKTOWN, AND NAVSURFWARDCEN Indian Head Div.
- WPNSA Yorktown is responsible for procurement of missile electronic component test equipment and Airborne Weapon Analysis Reporting System (AWARS) equipment. NAVSURFWARDCENs Crane Div and Indian Head Div are responsible for procurement of missile and ordnance energetic test equipment.

**AIR LAUNCHED GUIDED MISSILES - All-Up-Round (AUR) missiles presently supported are:** PHOENIX, SIDEWINDER, SPARROW, AMRAAM, HARPOON, HARM, HELIFIRE, MAVERICK, SIDEARM, PAVEWAY III, WALLEYE, and their related equipment.

**AIRBORNE ORDNANCE/AMMUNITION/SPECIAL STORES - Weapons/Stores presently supported are:** Aircrew escape propulsion systems, cartridges, explosive ordnance system devices, cartridge actuated devices, common aircrew ejection set, gun ammunition/fining systems, pyrotechnics, aircraft rockets, general purpose bombs, cluster weapons, and their related components.

P-1 SHOPI NO. | PAGE NO. |
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140          | 1       |
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Navmat Form 7110/8 (8-76)
## BUDGET PI: BUDGET PROCUREMENT HISTORY & PLANNING

### (EXHIBIT P-5A)

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<th>CONTRACTED BY</th>
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<th>ARE SPEC REVISIONS REQUIRED?</th>
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### REMARKS:

**EQUIPMENT OVER $100.0K**

# Budget Item Justification Sheet

**Appropriation / Budget Activity**
- Other Procurement, Navy / Budget Activity 3
- Aviation Support Equipment / Aircraft Support Equipment

**P-1 Item Nomenclature**
- Other Aviation Support Equipment

**Subheads**
- 43S7
- U3S7/Y3S7

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The following items are funded in this line:
1. Tactical Aircraft Mission Planning Systems (TAMPS) - FY 1995/96 only
2. Industrial Facilities Equipment
3. Capital Automated Data Processing Equipment (ADPE)
4. NAVAIR Support Equipment - FY 1995 only

1. **Tactical Aircraft Mission Planning Systems (TAMPS)**

   * In FY 1997 and beyond TAMPS is budgeted in OPN BA2 under P-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPS).
   * Detailed justification for the TAMPS program is provided in the OPN BA2 backup book.

2. **Industrial Facilities Equipment**

   * This item supports funding of capital costs associated with the Navy's government-owned but contractor-operated Deep Water Test Facility at San Clemente Island.

3. **Capital ADPE**

   * Procurements supporting the NAVAIR organization (NALDA & I/ETMS), which were formerly budgeted and managed under the Computer Acquisition Program (CAP) in FY 95 and prior is now directly controlled by NAVAIR, effective FY 1996. Details regarding these NAVAIR Capital ADPE projects are provided below:
### BUDGET ITEM JUSTIFICATION SHEET

**APPROPRIATION / BUDGET ACTIVITY**
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT

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<td>QUANTITY</td>
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**P-1 ITEM NOMENCLATURE**
OTHER AVIATION SUPPORT EQUIPMENT

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<tr>
<td>43S7</td>
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<tr>
<td>U3S7/Y3S7</td>
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**DATE**
March 1996

---

**a. Naval Aviation Logistics Data Analysis (NALDA):**

NAVAIR was directed by CNO to extend NALDA access to additional USN and USMC activities, principally the Fleet and to all NAVAIR Team sites. Sufficient automated data processing equipment (ADPE) and accessibility to the NALDA data base is presently not available at most Navy and Marine Corps Fleet level maintenance and repair facilities. The ADPE is necessary to eliminate the current on-going degradation of their capability to make informed decisions affecting material readiness, safety, and resource allocations.

NALDA is an upline integrated logistics support (ILS) data system designed to accommodate upline logistics data reporting requirements and to perform critical mission support analyses. NALDA provides the following capabilities: (1) a cost-effective corporate, integrated aviation maintenance/logistics data bank; (2) standardized procedures for data access and data analysis techniques; (3) aviation hardware/software/firmware configuration management tracking capabilities; (4) consolidation of redundant autonomous systems into a single system; (5) standardized, aviation-wide MIS support; (6) a Logistics Support Analysis Record (LSAR) data system mandated by OSD MIL-STD 1388-2B; (7) an accurate configuration management and serial number tracking data system implemented using the CLIP-CIM software for aviation weapons systems - the fleet's number one priority to improve readiness and safety of flight; (8) more timely (daily) receipt of fleet AV-3M and configuration data; (9) ability to access centralized fleet-wide, near real-time, operational/readiness data from NALDA in accordance with DoD security regulations; and (10) Logistics Management Decision Support System (LMDSS). Information available from the NALDA data bank consists of aviation maintenance, engineering, operational readiness, safety, configuration management, parts life tracking, and other critical logistics data for all naval aircraft, engines, components, and other weapons equipment.

Data reporting requirements for the NALDA system are directed by OPNAV and NAVAIR as defined primarily by the Naval Aviation Maintenance Program (NAMP) manual. Users of the NALDA system are located at all NAVAIR headquarters, field activities, fleet TYCOMS, Functional Wings, Intermediate Maintenance Activities, and other aviation logistics activities.

DD Form 2454, JUL 88

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### Budget Item Justification Sheet

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b. Interactive/Electronic Technical Manual System (I/ETMS)

I/ETMS is a strategy which supports the Automated Library Technical Manual System (ALTMS) and Automated Technical Information System (ATIS), NAVAIR application ATIS (AIR) programs. The objective of the I/ETMS strategy is to provide the capability to receive and use digital technical information in the support of developing and fielding Naval Aviation Weapon Systems and Equipment. I/ETMS is the result of a DoD/DoN CALS implementation requirement to eliminate paper technical manuals and provide electronic technical manuals to the aviation maintenance community. The I/ETMS configuration consists of the hardware, software, and network interfaces to support fleet maintenance activity capability to receive, store, and use electronically presented maintenance technical information.

ATIS (AIR) is designed to develop and implement at intermediate level maintenance activities an automated system for the distribution, delivery, and display of digital technical data, which will augment the capability provided by ALTMS. ATIS (AIR) is intended to satisfy requirements for value-added digital delivery, improved maintenance and supply functionality, and provide interfaces to existing fleet information systems (IFs). (Note: Implementation of of three (3) sites will commence in FY 1995 and will be completed in FY 1996.)

4. NAVAIR Support Equipment

Includes investment equipment used in the operation of NAVAIR Headquarters, and NAVAIR Field Activities such as the Naval Air Warfare Center, Training Systems Division, Orlando, FL, the Pacific Missile Range Facilities (PMRF), Hawaii, and the Naval Air Technical Services Facility (NATSF), Philadelphia. Support equipment is also provided for the Naval Air Warfare Center, Weapon Division, Point Mugu, CA and the Naval Air Warfare Center, Aircraft Division, Patuxent River, MD. This equipment is evaluated on a cost-effective (lease vs. purchase) basis. All non-centrally managed OIS equipment is funded in this line item. Beginning in FY 1989 the procurement of the NAVAIR Headquarters (NHN) system was included in the OIS-Headquarters line. NHN provides an integrated data communications network that extends the capabilities of the Naval Air Systems Command, its Program Executive Offices, and Naval Air Warfare Center Headquarters to support management of aviation design, development, engineering, logistics support, contract and budgetary data. The last year of funding for the stand-up of the NHN was FY 1995. Also, FY 1995 provides for the Joint Acquisition Management System (JAMS) II, which provides tools to efficiently oversee management of today's defense systems acquisition by generating consistent, quality procurement packages in a reduced amount of time. Effective in FY 1996, these non-centrally managed procurements will be budgeted and executed in the Operations & Maintenance, Navy appropriation.
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* In FY 97 and beyond TAMPS is budgeted in OPN BA2 under E-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPS) Detailed justification for the TAMPS program is provided in the OPN BA2 backup book.

** ADPE = Automated Data Processing Equipment
### B. Appropriation / Budget Activity

**Other Procurement, NAVY / N.A. 3. Aviation Support Equipment**

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Congress provided funding in FY 1996 for the purchase of non-developmental life safety items which have been identified by the operational commands and the Department of the Navy's Office of Safety and Survivability as priorities for procurement. Since Congress recognized the Navy and Marine Corps currently fund only a limited number of safety and survivability items on an ad hoc basis, funding was provided under this line item to finance the purchase of those critical items identified as priorities by the Fleet.

Specifically, funding will be used to procure Crash Survivability Flight Incident Recorders (CSFIR) for F/A-18 and AV-8B retrofit. The CSFIR will be a non-developmental item, commercial off-the-shelf procurement for a crash hardened recorder to be used in support of F/A-18 and AV-8B aircraft mishap and incident investigations. The effort will be managed by the Naval Air Systems Command, PMA-209 Air Combat Electronics Program Office.