

PROJECTS STUDIED AT...

THE FIRST NAVY VALUE ENGINEERING
SEMINAR..

In January 1956

A

INDICATOR LIGHT

Cost--\$5.80. A new light was provided which, it was judged,
accomplished the same purpose with equal
reliability.....at \$1.32.

100,000 each year--

--saving \$448,000.

B

FLUSH-HINGE, WATER-TIGHT BOLTED MANHOLE COVER

\$160 for the Navy design...

...commercial design -- \$36,

Suggested manhole cover resulting from the study-- \$84

SAVINGS -- \$45,000

C

DOUBLE BREAK STANCHION

Navy cost. \$117

Standardized version established costing \$11.50

8 vings. . . \$100 each,

or

90%

D

TYPE F VENTILATION CLOSURE

Cost. \$236 each. (Costs determined from the most recent actual job of 65 units at the shipyard.)

After study, closure provided for. \$12.50

Saving on one ship. \$14,527.

E

TYPE B VENTILATION VALVE

Cost. \$575

with some styles going up to

..\$898.

Various components could be reduced drastically--

one from...\$25

..to..

..\$8...

overall reduction--50%...

amounting to \$135,000 per aircraft carrier.

F

MULTIPLE LAMPHOLDER

\$14.46

...after study, found the job could be accomplished for...

\$6.95

(While this was a good training exercise, its quantity was so low that significant dollar savings did not result.)

G

AN/SRR-13 RADIO RECEIVER

5000 on order at approximately \$4,000 each.

Less than 2000 have been delivered.

It was found that essentially the same functions were provided by commercial equipment for \$650.

Because of shortness of time and because only one of the three-man team was trained in electronics, they dealt with only mechanical and structural features in the set. At the conclusion of the study, they advised that if these modifications in mechanical and structural features were made in the last 2000 sets on order, it would be a saving of \$1,067,200.

H

STOWAGE STRAP BUCKLE

Buckle cost. \$40

...to build in the navy shipyards.

It was determined that suitable buckles could be obtained

for. \$3.80

...saving \$3600 per ship.

I SNAP SWITCH FOR 1000 VJR

The switch now made at the ship yards cost. \$196.

**A study showed that by getting into the stamping process and
away from the tailor made item, the product can be provided**

for. \$32 ea.

**and could still be produced in the ship yard with tooling amortized
on the first hundred switches.**

J SUBMARINE HATCH LATCH

Cost. \$14.70.

**The price fabricated in the ship yard as suggested by the study
would become. . . \$7.00**

K DRAINAGE SCUPPER VALVE

Cost. \$576.

Product developed to provide exactly the same function. . .

\$259

Savings per carrier--\$20,000

L TRANSMITTER TRANSFER PANEL

Cost. \$325

**Adapted and developed mechanized circuitry eliminating
3000 soldered connections, etc.**

New cost. \$150

Procurement multiple at the present time is 5000 units

Saving would be \$875,000 per procurement.

M MOMENTARY CONTACT SWITCH

Cost. \$6.00 each

New cost. \$2.50

This was a good training tool. However, since annual usage is only 1500 per year, the dollar savings were not large.

N WATER-TIGHT DOOR DOG

Cost.....\$25.70

Various components could be provided for a fraction of the cost. For example, a sleeve bored from solid material costing \$1.64 could be purchased as a standard bushing for \$.10

Cost, after study.....\$11.83

Savings -- \$139,000 per year.