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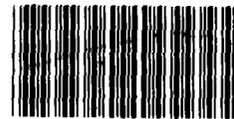
UNITED STATES GENERAL ACCOUNTING OFFICE
WASHINGTON, D.C. 20548

ENERGY AND MINERALS
DIVISION

FEBRUARY 19, 1981

B-202194

The Honorable Bo Ginn
Chairman, Subcommittee on Military
Construction Appropriations
Committee on Appropriations
House of Representatives



114681

Dear Mr. Chairman:

Subject: Status and Funding of ~~the~~ Department of
Defense Energy Conservation Investment
Program (EMD-81-55)

We are pleased to provide the enclosed data on the status of the projects and funds of the Department of Defense's (DOD) Energy Conservation Investment Program (ECIP).

As requested by your office, this data is being provided for use by the Subcommittee in the upcoming hearings on DOD's fiscal year 1982 program. We obtained this data as part of our follow-up review on what actions have been taken by DOD and the military services on the recommendations of the General Accounting Office (GAO) report "Improvements Needed in Department of Defense Energy Conservation Investment Program" EMD-78-15, January 18, 1978, and the Defense Audit Service (DAS) report on the Department of Defense's ECIP, No. 79-054, February 28, 1979. Our review is planned for completion in May 1981.

We are aware of the subcommittee's concern that funds provided for ECIP projects have been used on non-energy conservation projects. We have shared your concern and had recommended in another report that funds provided for energy conservation should be restricted to such use (EMD-80-11, December 12, 1979).

Our current review of the status of projects in the Army, Navy, and Air Force fiscal years 1979 and 1980 ECIP indicates that the military services are still using funds appropriated for ECIP on other military construction projects that do not conserve energy. We found that about

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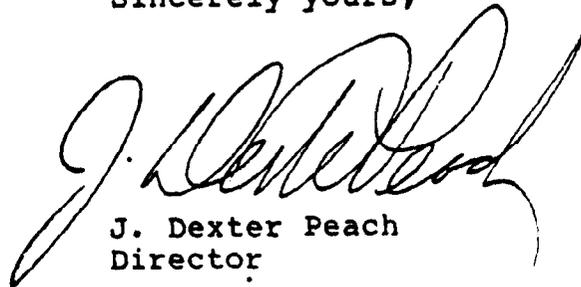
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\$45 million or 34 percent of the \$131 million appropriated for the fiscal year 1979 ECIP and about \$34 million or 27 percent of the \$124 million appropriated for the fiscal year 1980 ECIP have been reallocated or may become available for reallocation to other military construction projects. This occurs because, according to the fund control officials we interviewed, the services are permitted to reallocate funds from originally programmed projects, including ECIP projects, to other military construction projects when the original projects are cancelled, deferred, reduced in scope, or completed.

Enclosure I is a summary of the status of the projects and funds included in the fiscal years 1979 and 1980 programs. Enclosures II and III are schedules showing the difference between the amounts appropriated and the current cost estimates for each project included in these years.

We trust that the enclosed data will satisfy your needs. If we can be of further assistance, please let us know.

Sincerely yours,



J. Dexter Peach
Director

Enclosures - 3

STATUS AND FUNDING OF
THE DEPARTMENT OF DEFENSE
ENERGY CONSERVATION INVESTMENT PROGRAM

U.S. General Accounting Office
February 1981

EMD-81-55

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STATUS AND FUNDING OF
THE DEPARTMENT OF DEFENSE
ENERGY CONSERVATION INVESTMENT PROGRAM

1979 ECIP

Below is the status of the Army, Navy and Air Force ECIP projects for fiscal year 1979 which we compiled from the military services' records and reports and annual reports to OASD. The schedule shows that about 34 percent or \$44.5 million of the \$130.6 million appropriated could be or has been used for other military construction projects.

Funds Available from Fiscal Year 1979
ECIP Projects for Use on Other Military
Construction Projects

| <u>Service</u> | <u>Projects</u> | | | | <u>Total amounts</u> | | |
|----------------|------------------|---|---------------------------|---------------------------------|----------------------|---------------------|--------------------------|
| | <u>Cancelled</u> | <u>Reduced scope or over-estimated (note a)</u> | <u>Deferred (million)</u> | <u>Under-estimated (note b)</u> | <u>Available</u> | <u>Appropriated</u> | <u>Percent available</u> |
| Army | \$ 7.5 | \$10.5 | \$ - | \$-1.8 | \$16.2 | \$ 52.7 | 31 |
| Navy | 3.8 | 5.3 | - | -.6 | 8.5 | 42.9 | 20 |
| Air Force | - | 1.0 | 19.6 | -.8 | 19.8 | 35.0 | 57 |
| Totals | <u>\$11.3</u> | <u>\$16.8</u> | <u>\$19.6</u> | <u>\$-3.2</u> | <u>\$44.5</u> | <u>\$130.6</u> | 34 |

a/Reduced scope or overestimated is included in enclosure II column entitled current working estimate (CWE) less than appropriated.

b/Underestimated is included in enclosure II column entitled CWE more than appropriated.

A complete list of fiscal year 1979 ECIP projects for the Army, Navy and Air Force are included in enclosure II and the programs and projects are discussed below.

Army ECIP

The status of the 41 projects in the Army's fiscal year 1979 ECIP shows that about 31 percent or \$16.2 million of the \$52.7 million appropriated could be or has been used on other military construction projects.

Cancelled projects

The Army cancelled nine ECIP projects totalling \$7.5 million and reprogrammed \$4.4 million from two cancelled projects with the approval of the House and Senate Subcommittees on Military Construction Appropriations. The remaining \$3.1 million from these cancelled projects is available for use on other military construction projects. The projects were cancelled because they did not meet ECIP cost and energy savings criteria.

The available funds from the two Army projects were used on projects which did not conserve energy. One project was located at the Rock Island Arsenal, Illinois, and programmed for about \$2.0 million, and the other was located at Fort Benjamin Harrison, Indiana, and programmed for about \$2.4 million. These funds were reprogrammed to cover additional costs required to complete a tactical equipment shop, trainee barracks complex and chapel at Fort Sill, Oklahoma.

Other ECIP projects were cancelled and the records indicate that prior congressional approval was not obtained or needed. The projects were programmed for under \$500,000. The available funds were used on projects that did not conserve energy. For example:

--An ECIP project at Fort Knox, Kentucky, programmed for \$401,000 was cancelled and the funds were used in November 1979 to reconstruct a road at Camp Zama, Japan.

--An ECIP project at Fort Carson, Colorado, programmed for \$192,000 was cancelled. In April 1980 these funds were used to partially fund the upgrading of the arms room at the Aberdeen Proving Ground, Maryland, to meet security standards.

Projects with reduced scopes or overestimated costs

The Army's annual report to OASD on the status of ECIP projects indicates that an additional \$10.5 million also may become available because 17 projects were overestimated by about \$6.0 million, and another 7 projects were reduced in scope by about \$4.5 million.

Overestimating the cost of ECIP projects may result in funds becoming available after projects are completed. These available funds may be used on other military construction projects which may not conserve energy. For example, an ECIP project at Carlisle Barracks, Pennsylvania, was completed costing \$500,000 less than the amount programmed. The Army obtained approval in February 1980

from the House and Senate Subcommittees on Military Construction Appropriations to reprogram this amount to complete a trainee barracks complex at Fort Benning, Georgia.

Reducing the scope of ECIP projects also may result in funds becoming available for use on other military construction projects which may not conserve energy. For example, an energy monitoring and control system programmed for Fort Belvoir, Virginia, for \$4.8 million was estimated in August 1980 to cost about \$1.5 million to construct. This has resulted in about \$3.3 million becoming potentially available for other projects. The project scope was reduced because the Army found that only 110 buildings of the 202 buildings initially programmed were the largest energy savers. The Army decided to include only the 110 buildings in the project.

Projects with underestimated costs

The Army's annual report to OASD also shows that additional funds may be needed to cover the costs for eight projects having current working estimates that are \$1.8 million more than the amounts programmed. Funds available from other ECIP projects may be used for these projects having underestimated programmed amounts.

Navy ECIP

The status of the 54 projects in the Navy's fiscal year 1979 ECIP shows that about 20 percent or \$8.5 million of the \$42.9 million appropriated has been or is available for use on other military construction projects.

Cancelled projects

The Navy cancelled three ECIP projects totalling \$3.8 million and reprogrammed \$3.5 million with approval of the House and Senate Subcommittees on Military Construction Appropriations. The documentation provided the subcommittees shows that these cancelled projects were as follows:

| <u>Location</u> | <u>Programmed amount</u> |
|--|------------------------------|
| Fleet Training Center, San Diego, California | \$1,400,000 |
| Naval Technical Training Center, Treasure Island, San Francisco, California | 1,550,000 |
| Fire Fighting School, Naval Station, Pearl Harbor, Hawaii | 890,000 |

The projects were planned to replace pollution control filtering systems with a newly designed and more efficient system. However, revised estimates significantly increased the current working estimates beyond the programmed amounts. The increases were caused by technical difficulties. Since the existing pollution control systems worked satisfactorily the three projects were cancelled.

The funds from these cancelled projects were reprogrammed to projects that did not conserve energy. The \$1.4 million available from the San Diego project was reprogrammed as follows: \$1,151,000 was used to complete a physical education center at the Naval Academy; \$164,000 was used to complete fire protection improvements at the Naval Weapons Station, Earle, New Jersey. The remaining \$85,000 was reserved for future contingencies.

The \$1.6 million available from the San Francisco project was reprogrammed as follows: \$1.3 million was used to complete other military construction projects at the Puget Sound Naval Shipyard, Bremerton, Washington; and \$300,000 was not specifically assigned.

The \$890,000 available from the Pearl Harbor project was reprogrammed to cover part of the increase in construction costs of other projects at the Atlantic Fleet Ballistic Missile Refit Site, Kings Bay, Georgia.

Projects with reduced scopes or overestimated costs

An additional \$5.3 million is also potentially available from 16 projects that have been reduced in scope by about \$3.9 million and 17 projects that were overestimated by about \$1.4 million because the current working estimates were less than the programmed amounts.

Reducing the scope of ECIP projects may result in funds becoming available for use on other military construction projects which may not conserve energy. For example, an energy monitoring and control system at Mare Island Naval Shipyard, California, initially included all production shops, administration buildings, domestic and industrial waste pump stations and other buildings. However, the Navy subsequently determined that many of these buildings could not be beneficially included in the system because they are operational 24 hours a day. Therefore there would be almost no savings in many buildings because the utilities could not be reduced during any part of the 24 hour working day. The programmed amount is \$3.6 million and the current working estimate is \$1.2 million. Thus, about \$2.4 million is potentially available for other projects.

Overestimating the cost of ECIP projects may result in funds eventually becoming available for use on other military construction projects. For example, an energy monitoring and control system at Camp Lejeune, North Carolina, was initially planned to cover 41 buildings. The programmed amount is \$1.1 million. Subsequently the system has been expanded to include 116 buildings. Paradoxically, the expanded system was estimated to cost about \$917,000, a saving of about \$183,000. The records show that the contract bid was significantly lower than initially estimated.

Projects with underestimated costs

Additional funds may be needed to cover the costs of 15 projects whose programmed amounts have been underestimated by about \$600,000. The current working estimates are higher than the programmed amounts and, therefore, these projects may need more funds. According to Navy records, the labor and material costs are higher than initially estimated.

Air Force ECIP

The status of the 36 projects in the Air Force's fiscal year 1979 ECIP shows that about 57 percent or \$19.8 million of the \$35 million programmed has been or could be used on other military construction projects. Most of these funds were available from deferred projects.

Deferred projects

Twelve projects programmed for \$19.6 million have been deferred until fiscal years 1981 and 1982. We were told by Air Force fund control officials that these 12 projects have been deferred and the funds used for other military construction projects because other projects had higher priorities than the ECIP projects. The records we reviewed had not been maintained in a manner which enabled us to trace the funds to these other military construction projects.

Following are the ECIP projects that have been deferred: energy monitoring and control systems programmed for a total of \$14.3 million and located at Edwards AFB, California; Grand Forks, AFB, North Dakota; Hanscom AFB, Massachusetts; Holloman AFB, New Mexico; Keesler AFB, Mississippi; Kelly AFB, Texas; Nellis AFB, Nevada and Wright Patterson AFB, Ohio. Other energy conservation projects totalling \$5.3 million have been deferred at the Arnold Engineering Development Center, Tennessee; Edwards AFB, California; Hill, AFB, Utah and Wright Patterson AFB, Ohio.

1980 ECIP

Below is the status of the Army, Navy and Air Force ECIP projects for fiscal year 1980 compiled from the military services' records and reports and annual reports to OASD. About 27 percent or \$33.8 million of the \$123.9 million programmed could be available for other military construction projects.

Funds Available from Fiscal Year 1980
ECIP Projects for Use on Other Military
Construction Projects

| Service | Projects | | | | Total amounts | | |
|-----------|--------------|--|-------------------|--------------------------|---------------|----------------|-------------------|
| | Cancelled | Reduced scope or over-estimated (note a) | Deferred | Under-estimated (note b) | Available | Appropriated | Percent available |
| | | | -----million----- | | | | |
| Army | \$2.0 | \$ 2.5 | \$ 4.4 | \$-4.2 | \$ 4.7 | \$ 45.0 | 11 |
| Navy | 1.2 | 13.5 | 2.4 | -1.3 | 15.7 | 46.8 | 34 |
| Air Force | .6 | 1.4 | 12.6 | -1.2 | 13.4 | 32.1 | 42 |
| Totals | <u>\$3.8</u> | <u>\$17.4</u> | <u>\$19.4</u> | <u>\$-6.7</u> | <u>\$33.8</u> | <u>\$123.9</u> | 27 |

a/Reduced scope or overestimated is included in enclosure III column entitled CWE less than appropriated.

b/Underestimated is included in enclosure III column entitled CWE more than appropriated.

A complete list of fiscal year 1980 ECIP projects for the Army, Navy and Air Force are included in enclosure III and the programs are discussed below.

Army ECIP

The status of the 39 projects in the fiscal 1980 ECIP shows that about 11 percent or \$4.7 million of the \$45.0 million programmed could be available for use on other military construction projects.

The total funds potentially available are \$8.9 million; however, this is reduced by \$4.2 million because funds may be needed for 12 projects that are currently underfunded since the programmed amounts were underestimated. The remaining \$4.7 million is available for use on other projects. These funds are derived from the following: three projects cancelled totalling \$2.0 million; 17 projects overestimated totalling \$2.5 million; and three projects deferred totalling \$4.4 million.

The three cancelled projects were: one project at Fort Benjamin Harrison, Indiana, programmed for \$1.7 million to install insulation and storm windows; another project at the Iowa Army Ammunition Plant programmed for \$120,000 to install a boiler; and, another project at Fort Campbell, Kentucky, programmed for \$220,000 to install a chilled water storage system.

The three deferred projects are: two projects at Fort Benning, Georgia, one programmed for \$2.9 million to install a solar pond for hot water and another programmed for \$1.4 million to install boiler and heating controls; the other project was programmed for \$240,000 to install an energy monitoring and control system at the Red River Army Depot, Texas.

Navy ECIP

The status of the 44 projects in the Navy's fiscal year 1980 ECIP shows that about 34 percent or \$15.7 million of the \$46.8 million programmed could be available for use on other military construction projects.

The total funds potentially available are approximately \$17 million; however, this is reduced by \$1.3 million because funds may be needed for eight projects that are currently underfunded since the programmed amounts are underestimated. The remaining \$15.7 million is available for use on other projects. These funds are derived from the following: three projects cancelled totalling \$1.2 million; 32 projects over-estimated or reduced in scope totalling \$13.5 million; and, one project deferred totalling \$2.4 million.

One cancelled project was an energy monitoring and control system at the Naval Air Station, Meridian, Mississippi, programmed for \$220,000. This project was cancelled because a revised economic analysis showed that the project would no longer meet the established criteria. The original analysis had an error in the assumed operating conditions.

Another cancelled project was for installing ceiling insulation at the Submarine Base, New London, Connecticut. The project was programmed for \$250,000. The project was cancelled because of unforeseen condensation problems which would require expensive roof ventilation alterations.

The third cancelled project was to insulate steam and condensation lines at the Naval Air Engineering Center, Lakehurst, New Jersey programmed for \$700,000. The project was cancelled because a subsequent evaluation by the Navy showed that the project would not meet the cost-benefit criteria.

An additional \$13.5 million is also potentially available because the programmed amounts for 32 projects have been over-estimated or reduced in scope. This occurred because the current

working estimates are less than the programmed amounts. For example, a project to replace a test steam system at the Mare Island Naval Shipyard, California, is programmed for \$5.4 million and the current working estimate is \$3.3 million. The \$2.1 million difference is potentially available for use on other projects. The Navy attributes most of the variance between its programmed amount and the current working estimate to lower contract costs for material and excavation work.

The one deferred project has made about \$2.4 million available for use on other military construction projects. The ECIP project to insulate buildings at the Naval Weapons Station, Charleston, South Carolina, has been delayed according to a Navy official because the project has to be redesigned. The contract award is planned for about May 1981. However, a Navy official told us that when projects are delayed the programmed funds become available for use on other military construction projects.

Air Force ECIP

The status of the 73 projects in the fiscal year 1980 ECIP shows that about 42 percent or \$13.4 million of the \$32.1 million programmed could be available for use on other military construction projects.

The total funds potentially available are \$14.6 million; however, this is reduced by \$1.2 million because funds may be needed for 12 projects that are currently underfunded since the programmed amounts were underestimated. The remaining \$13.4 million available for use on other projects is derived from the following: two projects cancelled totalling \$560,000; 20 projects overestimated totalling \$1.4 million, and 22 projects deferred totalling \$12.6 million.

ARMY
 FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN
 APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
 IN JANUARY 1981

| <u>Location</u> | <u>Project</u> | <u>Appropriated Amount</u> | <u>Current Working Estimate</u> | <u>VARIANCES</u> | | <u>Projects Cancelled</u> |
|---|---|--------------------------------|---|--|--|-------------------------------|
| | | | | <u>CWE Less Than Approp.</u> | <u>CWE More Than Approp.</u> | |
| ----- (Thousands) ----- | | | | | | |
| ALASKA: | | | | | | |
| Ft Greely | Insulation, heating controls | \$1,945 | \$1,837 | \$ 108 (1) | \$ | \$ |
| Ft Wainwright | Insulation, storm windows | 3,323 | 2,299 | 1,024 | | |
| CALIFORNIA: | | | | | | |
| Ft Ord | Energy control system | 295 | 400 | | 105 | |
| Ft Ord | Weatherstrip building | 132 | 88 | 44 | | |
| COLORADO: | | | | | | |
| Ft Carson | Modify steam distribution system | 192 | | | | 192 |
| Fitzsimons Army Medical Center | Energy control system | 1,372 | 1,676 | | 304 | |
| GEORGIA: | | | | | | |
| Ft Benning | Energy control system | 1,528 | | | | 1,528 |
| Ft Gordon | Energy control system | 2,201 | 2,059 | 142 | | |
| Ft Gordon | Hot water waste recovery system | 1,046 | 1,159 | | 113 | |
| Ft Stewart (Hunter Army Airfield) | Insulation and weatherstrip | 376 | 153 | 221 (1) | | |
| Ft Stewart | Insulation and weatherstrip | 326 | 204 | 122 | | |
| ILLINOIS: | | | | | | |
| Rock Island | Window alterations | 1,957 | | | | 1,957 |
| Savanna Army Depot | Insulate and night set back | 239 | 249 | | 10 | |
| INDIANA: | | | | | | |
| Ft Benjamin Harrison | Replace windows, modify steam and air system | 2,359 | | | | 2,359 |
| KANSAS: | | | | | | |
| Ft Leavenworth | Storm windows, weatherstrip | 494 | 404 | 90 | | |
| Ft Leavenworth | Energy control system | 2,251 | 2,658 | | 407 | |
| KENTUCKY: | | | | | | |
| Ft Campbell | Insulation | 380 | | | | 380 |
| Ft Knox | Energy control system | 1,960 | 2,053 | | 93 | |
| Ft Knox | Infrared gas spot heaters | 401 | | | | 401 |
| LOUISIANA: | | | | | | |
| Ft Polk | Energy control system | 1,342 | 1,364 | 178 | | |
| MASSACHUSETTS: | | | | | | |
| Ft Devens | Storm windows and doors, zone controls | 799 | 445 | 354 (1) | | |
| Ft Devens | Solar heat | 268 | | | | 268 |
| MISSOURI: | | | | | | |
| Ft Leonard Wood | Storm windows and insulation | 5,845 | 4,396 | 1,449 | | |
| NEW JERSEY: | | | | | | |
| Picatinny Arsenal | Insulate steam distribution system | 2,262 | 373 | 1,889 | | |
| Picatinny Arsenal | Convert heating system to solar | 334 | | | | 334 |
| NORTH CAROLINA: | | | | | | |
| Ft Bragg | Energy control system | 994 | 880 | 114 | | |
| OKLAHOMA: | | | | | | |
| Ft Sill | Insulate and night set back | 2,968 | 2,735 | 233 (1) | | |
| PENNSYLVANIA: | | | | | | |
| Carlisle | Replace underground steam system | 1,601 | 1,081 | 520 | | |
| New Cumberland Army Depot | Insulate buildings | 237 | 192 | 45 | | |
| Toboyhanna Army Depot | Insulate, weatherstrip | 1,227 | 1,190 | 37 | | |

1/Projects reduced in scope.

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN
 APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
 IN JANUARY 1981

| Location | Project | Appropriated Amount | Current Working Estimate | VARIANCES | | Projects Cancelled |
|-------------------------------|--|------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------|
| | | | | CWE Less Than APPROP. | CWE More Than APPROP. | |
| ----- (Thousands) ----- | | | | | | |
| | | \$ | \$ | \$ | \$ | \$ |
| SOUTH CAROLINA: | | | | | | |
| Ft Jackson | Energy control system | 3,300 | 3,073 | 227 (1) | | |
| Ft Jackson | Convert to High Pressure sodium lights | 234 | 147 | 87 | | |
| TEXAS: | | | | | | |
| Corpus Christi | Convert Air condition from steam | 266 | 425 | | 159 | |
| Red River Army Depot | Insulate Buildings | 268 | 142 | 126 (1) | | |
| Red River Army Depot | Humidity controls | 187 | 166 | 21 | | |
| VIRGINIA: | | | | | | |
| Ft Belvoir | Energy control system | 4,780 | 1,510 | 3,266 (1) | | |
| Ft Eustis | Refuse fired steam plant | 947 | 1,524 | | 577 | |
| Ft Lee | Energy control system | 1,205 | 1,149 | 56 | | |
| Ft Pickett | Insulation, heat systems alterations | 248 | 239 | 9 | | |
| Radford Army Ammunition Plant | Install condensate return system | 295 | 206 | 89 | | |
| WASHINGTON: | | | | | | |
| Ft Lewis | Laundry heat recovery | 115 | | | | 115 |
| Totals | | <u>552,657</u> | <u>335,482</u> | <u>310,489</u> | <u>- 30,744</u> | <u>57,515</u> |

ARMY

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN
 APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
 IN JANUARY 1981

ANALYSIS OF VARIANCES BETWEEN
 CURRENT WORKING ESTIMATES AND
 APPROPRIATED AMOUNTS

| | |
|---|---------------------|
| Amount Appropriated | \$52,697,000 |
| Current Working Estimates (CWE) | -36,482,000 |
| Total Funds Potentially Available For other Projects | <u>\$16,215,000</u> |
| Potential Funds Available From Projects where CWE's are less Than appropriated amounts | |
| Projects reduced in scope (1) | \$ 4,533,000 |
| Projects overestimated | 5,916,000 |
| Total | <u>\$10,449,000</u> |
| Projects cancelled | 7,534,000 |
| Gross potential funds available | <u>\$17,983,000</u> |
| Potential Additional Funds Needed to Complete projects Because CWE's are More Than Appropriated Amounts | -1,768,000 |
| Net Potential Funds Available For other Projects | <u>\$16,215,000</u> |

NAVY

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN APPROPRIATED
 AMOUNTS AND CURRENT WORKING ESTIMATES
 AS OF NOVEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimate or Obli- gated Amount | Variance | | Cancelled | Deferred \$ FY |
|----------------------------------|--|------------------------|---|-------------------------|-------------------------|-----------|-------------------|
| | | | | Less Than Approp. | More Than Approp. | | |
| ------(Thousands)----- | | | | | | | |
| <u>Alaska</u> | | | | | | | |
| NS Adak (P 821) | Energy Recovery System | \$ 1,435 | \$ 1,466.3 | \$ | \$ 31.3 | \$ | \$ |
| <u>California</u> | | | | | | | |
| MCB Camp Pendleton (P 771) | Energy Monitoring and Control Systems | 2,000 | 1,940 | | 60 | | |
| NWC China Lake (P278) | Energy Monitoring and Control System | 1,150 | 1,020.6 | | 129.4 | | |
| (P 279) | Boiler Plant Modifications | 900 | 858.9 | | 41.1 | | |
| NSY Long Beach (P 192) | Energy Recovery Systems | 420 | 412.4 | | 7.6 | | |
| NSY Mare Island (P 219) | Energy Monitoring and Control System | 3,600 | 1,223 | | 2,377 | | |
| NPSC Monterey (P 128) | Heating, Ventilation, Air Conditioning Modifications | 130 | 99.4 | | 30.6 | | |
| NAS North Island (P081) | Boiler Plant Modifications | 310 | 306.8 | | 3.2 | | |
| PNTC Point Mugu | Energy Monitoring and Control Systems | 650 | 652.9 | | 2.9 | | |
| FTC San Diego (P 186) | Building Alterations | 1,400 | | | | 1,400 | |
| NTTC San Francisco | Building Alterations | 1,350 | | | | 1,350 | |
| <u>Florida</u> | | | | | | | |
| NAS Cecil Field (P 173) | Building Alterations | 100 | 117 | | 17 | | |
| (P 188) | Energy Monitoring and Control Systems | 730 | 698 | | 32 | | |
| NAS Jackson- ville (P 577) | Energy Monitoring and Control System | 765 | 875 | | 110 | | |
| NTC Orlando (P 150) | Energy Monitoring and Control System | 820 | 929 | | 109 | | |
| NAS Pensacola (P 476) | Insulation and Storm Windows | 150 | 93.0 | | 57 | | |
| (P 494) | Energy Monitoring and Control System | 260 | 240.6 | | 19.4 | | |
| (P 494) | Heating, Venti- lation and Air Conditioning Modifications | 320 | 273.6 | | 46.4 | | |

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN APPROPRIATED
 AMOUNTS AND CURRENT WORKING ESTIMATES
 AS OF NOVEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimate or Obli- gated Amount | Variance | | Cancelled | Deferred \$ FY |
|---------------------------------|--|------------------------|---|--------------------------------|--------------------------------|-----------|-------------------|
| | | | | CUE Less Than Approp. | CUE More Than Approp. | | |
| ------(Thousands)----- | | | | | | | |
| <u>Georgia</u> | | | | | | | |
| NCLSB/LANT Albany (P 091) | Insulation and Storm Windows | \$ 110 | \$ 113.6 | \$ | \$ 3.6 | \$ | \$ |
| (P 115) | Lighting Systems | 130 | 97.7 | 32.3 | | | |
| (P 120) | Heating Venti- lation and Air Conditioning Modifications | 330 | 251.9 | 78.1 | | | |
| MCSB Athens (P 073) | Heating Venti- lation and Air Conditioning Modifications | 90 | 70 | 20 | | | |
| <u>Hawaii</u> | | | | | | | |
| NS Pearl Harbor (P248) | Building Alterations | 890 | | | | 890 | |
| MPMC Pearl Harbor (P 139) | Lighting Systems | 290 | 122.1 | 167.9 | | | |
| <u>Illinois</u> | | | | | | | |
| MPMC Great Lakes (P 334) | Boiler Plant Modifications | 2,150 | 2,059 | 91 | | | |
| (P373) | Building Alterations | 80 | 78.8 | 1.2 | | | |
| (P 380) | Heating, Venti- lation and Air Conditioning Modifications | 230 | 164 | 66 | | | |
| <u>Indiana</u> | | | | | | | |
| MWSC Crane (P 172) | Heating, Venti- lation and Air Conditioning Modifications | 100 | 107 | | 7 | | |
| (P157) | Energy Monitoring and Control System | 380 | 410 | | 30 | | |
| NAV Indiana- polis (P100) | Heating Venti- lation and Air Conditioning Modifications | 2,900 | 2,783. | 117 | | | |
| <u>Maine</u> | | | | | | | |
| NAS Brunswick (P 104) | Insulation and Storm Windows | 640 | 622.3 | 17.3 | | | |
| (P 105) | Boiler Plant Modifications | 200 | 203 | | 3 | | |
| MCU Cutler (P 015) | Building Alterations | 200 | 102.3 | 97.7 | | | |
| NSY Portsmouth (P 176) | Heating, Venti- lation and Air Conditioning Modifications | 530 | 610.3 | | 80.3 | | |
| <u>Maryland</u> | | | | | | | |
| NA Annapolis (P 197) | Insulation and Storm Windows | 640 | 640 | | | | |
| BOS Indian Head (P 961) | Insulation and Storm Windows | 410 | 365.4 | 44.6 | | | |
| NAVC Patuxent River (P 306) | Energy Monitoring and Control System | 760 | 829.9 | | 69.9 | | |

NAVY

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN APPROPRIATED
 AMOUNTS AND CURRENT WORKING ESTIMATES
 AS OF NOVEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimate or Obli- gated Amount | Variance | | Cancelled | Deferred \$ FY |
|-----------------------------------|---|------------------------|---|-------------------------|-------------------------|---------------|-------------------|
| | | | | Less Than Approp. | More Than Approp. | | |
| ------(Thousands)----- | | | | | | | |
| | | \$ | \$ | \$ | \$ | \$ | \$ |
| <u>New Jersey</u> | | | | | | | |
| NAPTC Trenton (P 130) | Lighting Systems | 240 | 190 | 50 | | | |
| (P 131) | Building Alterations | 130 | 130 | | | | |
| <u>North Carolina</u> | | | | | | | |
| MCB CAMP Lodgeon (P 701) | Lighting Systems | 730 | 448.2 | 281.8 | | | |
| (P 705) | Energy Monitoring and Control Systems | 1,100 | 917 | 183 | | | |
| MCAS Cherry Point (P 779) | Energy Monitoring and Control Systems | 2,000 | 1,709.3 | 290.7 | | | |
| <u>Pennsylvania</u> | | | | | | | |
| NBPCC Mechanicsburg (P 077) | Lighting Systems | 420 | 373.7 | 46.3 | | | |
| (P 078) | Building Alterations | 700 | 745 | | 45 | | |
| <u>Rhode Island</u> | | | | | | | |
| NETC Newport (P 286) | Building Alterations | 1,000 | 904 | 96 | | | |
| <u>South Carolina</u> | | | | | | | |
| NSY Charleston (P 066) | Lighting Systems | 325 | 198.6 | 126.4 | | | |
| NVS Charleston (P 061) | Energy Monitoring and Control System | 775 | 866 | | 91 | | |
| <u>Tennessee</u> | | | | | | | |
| NAS Memphis (P 231) | Energy Monitoring and Control System | 570 | | | 7 | | |
| <u>Virginia</u> | | | | | | | |
| NPWC Norfolk (P 193) | Energy Monitoring and Control Systems | 4,200 | 4048.6 | 151.4 | | | |
| NS Norfolk (P 164) | Insulation and Storm Windows | 370 | 220.7 | 149.3 | | | |
| NBC Norfolk (P 163) | Lighting Systems | 1,040 | 734.6 | 305.4 | | | |
| NSY Norfolk (P 233) | Steam and Con- densate Systems | 280 | 284.6 | | 4.6 | | |
| (P 243) | Steam and Condensate Systems | 1,150 | 1091.9 | 58.1 | | | |
| <u>Washington</u> | | | | | | | |
| NSY Puget Sound (P 191) | Insulation and Storm Windows | 160 | 160 | | | | |
| Totals | | <u>842,940</u> | <u>834,436.2</u> | <u>88,503.8</u> | <u>111.6</u> | <u>83,840</u> | |

NAVY

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN APPROPRIATED
 AMOUNTS AND CURRENT WORKING ESTIMATES
 AS OF NOVEMBER 1980

ANALYSIS OF VARIANCE BETWEEN
 CURRENT WORKING ESTIMATES AND
 APPROPRIATED AMOUNTS

| | |
|---|---------------------|
| Amount Appropriated | \$42,940,000 |
| Current Working Estimate or Obligated Amount | <u>-34,436,200</u> |
| Total Funds Potentially Available For Other Projects | <u>\$ 8,503,800</u> |
| Potential Funds Available From Projects Where CWE's are Less Than the Appropriated Amount | \$ 5,275,400 |
| Projects Cancelled | <u>3,840,000</u> |
| Gross Potential Funds Available | \$ 9,115,400 |
| Potential Additional Funds Needed to Complete Projects because CWE's are More Than Appropriated Amounts | <u>- 611,600</u> |
| Net Potential Funds Available For Other Projects | <u>\$ 8,503,800</u> |

AIR FORCE

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN
 APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
 AS OF DECEMBER, 1980

| Location | Project | Appropriation | Current Work Estimate or Amount Obligated | Variance | | Deferred |
|-----------------------------|---------------------------------------|---------------|---|-----------------------|-----------------------|-----------|
| | | | | OMB Less Than Approp. | OMB More Than Approp. | |
| ----- (Thousands) ----- | | | | | | |
| <u>Arkansas</u> | | | | | | |
| Little Rock AFB | Boiler Replacement | \$ 183 | \$ 213 | \$ | \$ 30 | \$ |
| | Air Conditioning Modifications | 160 | 237 | | 77 | |
| <u>California</u> | | | | | | |
| Edwards AFB | Energy Monitoring and Control System | 2,750 | | | | 2,750 '82 |
| | Thermostats and Insulation | 650 | | | | 650 '82 |
| Worton AFB | Insulation | 506 | 622 | | | 116 |
| | Mechanical System Modifications | 143 | 211 | | | 68 |
| <u>Colorado</u> | | | | | | |
| U.S.A.F. Academy | Air Conditioning Replacement | 635 | 635 | | | |
| <u>District of Columbia</u> | | | | | | |
| Bolling AFB | Insulation and Storm Fash | 355 | 267 | 88 | | |
| <u>Georgia</u> | | | | | | |
| Robins AFB | Energy Monitoring and Control System | 2,100 | 1,976 | 124 | | |
| <u>Illinois</u> | | | | | | |
| Scott AFB | Storm Windows and Vestibule | 860 | 873 | | | 13 |
| | Mechanical System Alterations | 188 | 138 | 50 | | |
| <u>Maryland</u> | | | | | | |
| Andrews AFB | Storm Windows | 335 | 387 | | | 52 |
| | Mechanical System Alterations | 112 | 94 | 18 | | |
| <u>Massachusetts</u> | | | | | | |
| Hanscom AFB | Energy Monitoring and Control System | 2,000 | | | | 2,000 '81 |
| | Air Conditioning Modification | 340 | 340 | | | |
| <u>Michigan</u> | | | | | | |
| E.I. Sawyer AFB | Heating Plant Alterations | 300 | 290 | 10 | | |
| <u>Mississippi</u> | | | | | | |
| Columbus AFB | Energy Monitoring and Control Systems | 1,586 | 1,586 | | | |
| Keesler AFB | Energy Monitoring and Control System | 820 | | | | 820 '80 |

AIR FORCE
FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
SCHEDULE OF VARIANCES BETWEEN
APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
AS OF DECEMBER, 1980

| Location | Project | Appropriated Amount | Current Work Estimate or Amount Obligated | Variance | | Deferred \$ FY |
|-------------------------|--|------------------------|---|--------------------------------|--------------------------------|-------------------|
| | | | | CWE Less Than Approp. | CWE More Than Approp. | |
| ----- (Thousands) ----- | | | | | | |
| <u>Nevada</u> | | | | | | |
| Hellis AFB | Energy Monitoring and Control System | \$ 900 | \$ | \$ | \$ | \$ 900 '81 |
| <u>New Jersey</u> | | | | | | |
| McGuire AFB | Lighting System Alterations | 206 | 217 | | 11 | |
| <u>New Mexico</u> | | | | | | |
| Holloman AFB | Energy Monitoring and Control System | 540 | | | | 540 '82 |
| Kirtland AFB | Energy Monitoring and Control System | 800 | 803 | | 3 | |
| | Steam Line Modifications | 650 | 950 | | 300 | |
| <u>North Dakota</u> | | | | | | |
| Grand Forks AFB | Energy Monitoring and Control System | 610 | | | | 610 '81 |
| | Storm Windows and Insulation | 734 | 575 | 159 | | |
| <u>Ohio</u> | | | | | | |
| Newark AFB | Heating and Air Conditioning Alterations | 1,400 | 929 | 471 | | |
| Wright-Patterson AFB | Mechanical, Electrical and Structural Alterations | 1,120 | | | | 1,120 '81 |
| | Energy Monitoring and Control System | 3,350 | | | | 3,350 '81 |
| <u>Oklahoma</u> | | | | | | |
| Altus AFB | Energy Monitoring | 608 | 587 | 21 | | |
| <u>Tennessee</u> | | | | | | |
| AEDC | Propulsion Wind Tunnel Modifications | 2,710 | | | | 2,710 '81 |
| <u>Texas</u> | | | | | | |
| Kelly AFB | Energy Monitoring and Control System | 3,300 | | | | 3,300 '82 |
| Reese AFB | Energy Monitoring and Control System | 742 | 742 | | | |
| <u>Utah</u> | | | | | | |
| Hill AFB | Lighting System Alterations | 850 | | | | 850 '82 |
| <u>Virginia</u> | | | | | | |
| Langley AFB | Energy Monitoring and Control System | 1,239 | 1,239 | | | |
| <u>Washington</u> | | | | | | |
| Fairchild AFB | Energy Monitoring and Control System | 650 | 650 | | | |
| McChord AFB | Central Heating System Alterations | \$ 594 | \$ 743 | \$ | \$ 149 | |
| Total | | \$35,026 | \$15,244 | \$ 1,001 | \$ - 819 | \$19,600 |

AIR FORCE

FISCAL YEAR 1979 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN
 APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
 AS OF DECEMBER, 1980

ANALYSIS OF VARIANCE BETWEEN
 CURRENT WORKING ESTIMATES AND
 APPROPRIATED AMOUNTS

| | |
|--|---------------------|
| Amount Appropriated | \$35,026,000 |
| Current Work Estimate or Obligated Amount | <u>-15,244,000</u> |
| Total Funds Potentially Available For Other Projects | <u>\$19,782,000</u> |
| Potential Funds Available From Projects Where CWE's are Less Than Appropriated Amounts | \$ 1,001,000 |
| Projects deferred | <u>19,600,000</u> |
| Gross Potential Funds Available | <u>\$20,601,000</u> |
| Potential Additional Funds Needed to Complete Projects because CWE's are More Than Appropriated Amount | <u>- 819,000</u> |
| Net Potential Funds Available for other Projects | <u>\$19,782,000</u> |

ARMY
FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM
SCHEDULE OF VARIANCES BETWEEN
APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
IN JANUARY 1981

| <u>Location</u> | <u>Project</u> | <u>Appropriated Amount</u> | <u>Current Working Estimate</u> | <u>VARIANCES</u> | | <u>Projects Cancelled (1) or Deferred (2)</u> |
|--|--|------------------------------|---------------------------------|------------------------------|------------------------------|---|
| | | | | <u>CWE Less Than Approp.</u> | <u>CWE More Than Approp.</u> | |
| ------(Thousands)----- | | | | | | |
| ARIZONA: Ft Huachuca | Install Showerheads, solar panels and temperature controls | \$ 570 | \$ 112 | \$ 458 | \$ | \$ |
| COLORADO: Pueblo Army Depot | Extend steam lines | 270 | 238 | 32 | | |
| GEORGIA: Ft Benning Ft Benning Ft Benning | Solar pond for hot water Boiler and Heating Controls Waste Heat Recovery | 2,850 1,350 140 | 183 | | 43 | 2,850 (2) 1,350 (2) |
| INDIANA: Ft Benjamin Harrison | Insulation, storm windows | 1,650 | | | | 1,650 (1) |
| IOWA: Iowa Army Amm Plant Iowa Army Amm Plant | Insulation Install Boiler | 1,350 120 | 2,052 | | 502 | 120 (1) |
| KENTUCKY: Ft Campbell Ft Knox Ft Knox Ft Knox | Chilled water storage Heat Recovery Incinerator Insulate Buildings Install solar window film | 220 1,750 1,250 340 | 2,127 | 513 300 | 737 40 | 220 (1) |
| MARYLAND: Ft Meade Ft Ritchie | Install Feedwater Economizers Insulation, storm windows, lamp replacement | 190 230 | 165 230 | 25 | | |
| MISSOURI: Ft Leonard Wood | Solid waste incinerator | 2,200 | 3,156 | | 956 | |
| NEW JERSEY: Picatinny Arsenal Picatinny Arsenal | Energy Monitoring and control system Insulate, storm windows, weatherstrip, controls | 1,600 1,350 | 1,535 1,326 | 65 24 | | |
| NEW YORK: Ft Drum Ft Drum | Insulate and weatherstrip buildings Insulation, replace windows, replace boilers | 690 330 | 376 375 | 114 | | 45 |
| PENNSYLVANIA: Carlisle Barracks New Cumberland Tobyhanna Tobyhanna | Energy Monitoring and control system Energy Monitoring and control system Eliminate Central Summer steam Install Economizers to central heating plant | 240 410 560 230 | 235 482 374 0 | 5 186 230 | | 72 |

ARMY
FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM
SCHEDULE OF VARIANCES BETWEEN
APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
IN JANUARY 1981

| <u>Location</u> | <u>Project</u> | <u>Appropriated Amount</u> | <u>Current Working Estimate</u> | <u>VARIANCES</u> | | <u>Projects Cancelled or Deferred</u> |
|---------------------------------|---|----------------------------|---------------------------------|------------------------------|------------------------------|---------------------------------------|
| | | | | <u>CWE Less Than Approp.</u> | <u>CWE More Than Approp.</u> | |
| ----- (Thousands) ----- | | | | | | |
| TEXAS: | | | | | | |
| Long Horn Army Ammunition Plant | Heat Recovery system | \$ 280 | \$ 192 | \$ 88 | \$ | \$ |
| Red River Army Depot | Energy Monitoring and control system | 240 | | | | 240 (2) |
| UTAH: | | | | | | |
| Dugway proving Grounds | Insulation, Controls, weatherstripping | 320 | 602 | | 62 | |
| Tooele Army | Install Time Clocks, Controls | 1,050 | 1,113 | | 63 | |
| VIRGINIA: | | | | | | |
| Ft Belvoir | Insulate Building | 720 | 718 | 2 | | |
| Ft Eustis | Energy Monitoring and control system | 2,850 | 2,638 | 212 | | |
| Ft Eustis | Rehabilitate steam system, replace steam lines | 1,600 | 1,479 | 121 | | |
| Ft Eustis | Insulation and window modification | 760 | 910 | | 150 | |
| Ft Lee | Energy Monitoring and control system | 1,050 | 1,211 | | 161 | |
| WISCONSIN: | | | | | | |
| Sadger Army Ammunition Plant | Insulate Buildings, temperature controls | 650 | 650 | | | |
| GERMANY: | | | | | | |
| Various | Upgrade Heating Plants with automated coal fired system | 2,400 | 2,204 | 196 | | |
| Kaiserslautern | Upgrade Heating Plant with automated coal fired system | 1,350 | 1,350 | | | |
| Frankfurt | Automate and Inter connect coal fired heating system | 5,300 | 7,195 | | 1,695 | |
| Augsburg | Combine Heating Plants and Distribution systems with Automated coal fired systems | 4,800 | 4,800 | | | |
| Bamberg | Automation of Coal Fired Boiler Plant | 630 | 712 | | 82 | |
| Geopplingen | Automation of Coal Fired Boiler Plant | 280 | 279 | 1 | | |
| Totals | | <u>\$44,970</u> | <u>\$40,232</u> | <u>\$2,536</u> | <u>- \$4,228</u> | <u>\$6,436</u> |

ARMY

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM
 SCHEDULE OF VARIANCES BETWEEN
 APPROPRIATED AMOUNTS AND CURRENT WORKING ESTIMATES
 IN JANUARY 1981

ANALYSIS OF VARIANCES BETWEEN
 CURRENT WORKING ESTIMATES AND
 APPROPRIATED AMOUNTS

| | |
|---|---------------------|
| Amount Appropriated | \$44,970,000 |
| Current Working Estimate (CWE) | -40,232,000 |
| Total Funds Potentially Available For Other Projects | <u>\$ 4,738,000</u> |
| Potential Funds Available From Projects where CWE's are Less Than Appropriated Amounts | \$ 2,536,000 |
| Projects cancelled or Deferred | 6,430,000 |
| Gross Potential Funds Available | <u>\$ 8,966,000</u> |
| Potential Additional Funds Needed To Complete Projects Because CWE's are More Than Appropriated Amounts | -4,228,000 |
| Net Potential Funds Available For Other Projects | <u>\$ 4,738,000</u> |

NAVY
FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM
SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS
AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| <u>Location</u> | <u>Project</u> | <u>Appropriated Amount</u> | <u>Current Work Estimates or Obligated Amount</u> | <u>Variance</u> | | <u>Cancelled</u> | <u>Deferred \$ FY</u> |
|----------------------------------|---|--------------------------------|---|--|--|------------------|-------------------------------|
| | | | | <u>CVE Less Than Approp.</u> | <u>CVE More Than Approp.</u> | | |
| THOUSANDS | | | | | | | |
| | | \$ | \$ | \$ | \$ | \$ | \$ |
| <u>California</u> | | | | | | | |
| NRMC Camp Pendleton (P-415) | Building Alterations | 2,050 | 1003.2 | 1046.8 | | | |
| NAS Lemoore (P-034) | Lighting Systems | 200 | 236.2 | | 56.2 | | |
| NSY Mare Island (P-218) | Steam & Conden- sate Systems | 800 | 774.4 | 25.6 | | | |
| (P-207) | Building Alterations | 3,050 | 1530.1 | 1519.9 | | | |
| (P-215) | Steam & Conden- sate Systems | 5,420 | 3336 | 2084 | | | |
| (P-200) | Lighting Systems | 1,250 | 1031.2 | 218.8 | | | |
| NAS Miramar (P-251) | Energy Monitoring & Control Systems | 2,800 | 2201.4 | 598.6 | | | |
| NRMC Port Huenehue (P-351) | Steam & Conden- sate Systems | 1,200 | 889 | 311 | | | |
| NRMC Ivontynine Palms (P-193) | Heating Ventilation & Air Conditioning | 100 | 79.9 | 20.1 | | | |
| <u>Connecticut</u> | | | | | | | |
| NSB New London (P-313) | Building Alterations | 100 | 78.2 | 21.8 | | | |
| (P-316) | Insulation & Storm Windows | 250 | | | | 250 | |
| <u>Cuba</u> | | | | | | | |
| NS Guantanamo Bay (P-330) | Lighting Systems | 210 | 195.6 | 14.4 | | | |
| <u>Hawaii</u> | | | | | | | |
| NSY Pearl Harbor (P-232) | Lighting Systems | 420 | 348.4 | 71.6 | | | |
| <u>Maine</u> | | | | | | | |
| NAS Brunswick (P-119) | Building Alterations | 210 | 138 | 72 | | | |
| <u>Mariana Islands</u> | | | | | | | |
| NRMC Guam (P-129) | Boiler Plant Modifications | 900 | 1016.3 | | 116.3 | | |
| (P-123) | Energy Monitoring & Control System | 1200 | 2142.7 | | 942.7 | | |
| <u>Maryland</u> | | | | | | | |
| NATC Patuxent River (P-277) | Steam & Con- densate Systems | 3850 | 1660 | 2190 | | | |
| <u>Mississippi</u> | | | | | | | |
| NAS Meridian (P-239) | Lighting Systems | 160 | 70.7 | 89.3 | | | |
| (P-238) | Energy Control & Monitoring System | 220 | 22 | | | 220 | |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimates or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|---------------------------------|--|------------------------|---|-------------------------|-------------------------|-----------|-------------------|
| | | | | Less Than APPROP. | More Than APPROP. | | |
| THOUSANDS | | | | | | | |
| <u>New Jersey</u> | | | | | | | |
| | | \$ | \$ | \$ | \$ | \$ | \$ |
| NAEC Lakehurst (P-184) | Steam & Con- densate Systems | 700 | | | | 700 | |
| <u>North Carolina</u> | | | | | | | |
| MCB Camp Lejeune (P-704) | Steam & Conden- sate Systems | 530 | 159.3 | 370.7 | | | |
| (P-702) | Insulation & Storm Windows | 1200 | 619.8 | 580.2 | | | |
| <u>Pennsylvania</u> | | | | | | | |
| SPCC Mechanics- burg (P-083) | Insulation & Storm Windows | 240 | 250.9 | | 10.9 | | |
| (P-087) | Building Alterations | 2400 | 1306.1 | 1093.9 | | | |
| NACTC Philadelphia (P-001) | Building Alterations | 170 | 148.1 | 21.9 | | | |
| NSY Philadelphia (P-505) | Building Alterations | 510 | 540.7 | | 30.7 | | |
| NAEC Warriner (P-139) | Insulation & Storm Windows | 130 | 171.8 | | 41.8 | | |
| <u>Puerto Rico</u> | | | | | | | |
| NS Roosevelt Roads (P-718) | Solar | 1300 | 1154.5 | 145.5 | | | |
| <u>South Carolina</u> | | | | | | | |
| MVS Charleston (P-138) | Building Alterations | 410 | 454.4 | | 44.4 | | |
| (P-137) | Insulation & Storm Windows | 2350 | | | | | 2350 '81 |
| NSY Charleston (P-023) | Steam & Con- densate Systems | 2250 | 2054.2 | 195.8 | | | |
| <u>Tennessee</u> | | | | | | | |
| NAS Memphis (P-234) | Steam & Conden- sate Systems | 1400 | 993.6 | 406.4 | | | |
| <u>Texas</u> | | | | | | | |
| NAS Corpus Christi (P-248) | Heating Ventilation & Air Conditioning Systems | 230 | 175 | 55 | | | |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimates or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|-----------------------------|--|------------------------|---|--------------------------------|--------------------------------|----------------|-------------------|
| | | | | CWZ Less Than Approp. | CWZ More Than Approp. | | |
| THOUSANDS | | | | | | | |
| <u>Virginia</u> | | \$ | \$ | \$ | \$ | \$ | \$ |
| PCCLANT Dam Neck (P-879) | Lighting Systems | 150 | 93.7 | 36.3 | | | |
| (P-883) | Energy Monitoring & Control Systems | 720 | 701 | 19 | | | |
| NAS Little Creek (P-247) | Lighting Systems | 120 | 88.4 | 31.6 | | | |
| (P-239) | Insulation & Storm Windows | 570 | 388.6 | 181.4 | | | |
| (P-240) | Steam & Conden- sate Systems | 1100 | 1137.9 | | 37.9 | | |
| NAF Norfolk (P-291) | Insulation & Storm Windows | 120 | 100.7 | 19.3 | | | |
| NAS Norfolk (P-162) | Insulation & Storm Windows | 370 | 173.9 | 196.1 | | | |
| AFY Norfolk (P 243) | Energy Monitoring & Control Systems | 2500 | 1611.6 | 888.4 | | | |
| NAS Yorktown (P-375) | Lighting Systems | 220 | 191.3 | 28.7 | | | |
| (P-370) | Building Alterations | 1600 | 1329.5 | 270.5 | | | |
| <u>Washington</u> | | | | | | | |
| AFY Bremerton (P-155) | Building Alterations | 1100 | 453.3 | 646.7 | | | |
| | | <u>866,780</u> | <u>831,049.6</u> | <u>613,491.3</u> | <u>- 81,280.9</u> | <u>\$4,170</u> | <u>\$2,352</u> |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM
SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS
AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

ANALYSIS OF VARIANCE BETWEEN
CURRENT WORKING ESTIMATES AND

APPROPRIATED AMOUNTS

| | |
|--|----------------------|
| Amount Appropriated | \$ 46,780,000 |
| Current Working Estimate or Obligated Amount | <u>-31,049,900</u> |
| | |
| Total Funds Potentially Available For Other Projects | \$ <u>15,730,100</u> |
| | |
| Potential Funds Available From Projects Where CWEs are less than the Appropriated Amount | \$ 13,491,300 |
| Projects cancelled | 1,170,000 |
| Projects deferred | <u>2,350,000</u> |
| Gross Potential Funds Available | \$ 17,011,300 |
| | |
| Potential Additional Funds Needed to Complete Projects Where CWEs are more than Appropriated Amounts | \$ <u>-1,280,900</u> |
| | |
| Net Potential Funds Available For Other Projects | \$ <u>15,730,400</u> |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriation | Current Work Estimates or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|-------------------------------|--|------------------------------|---|--------------------------------|--------------------------------|-----------|---------------------------------|
| | | | | CVE Less Than Approp. | CVE More Than Approp. | | |
| THOUSANDS | | | | | | | |
| <u>Arizona</u> | | \$ | \$ | \$ | \$ | \$ | \$ |
| Davis Monthan AFB | Energy Monitoring & Control System | 1,800 | 1,740 | 60 | | | |
| <u>California</u> | | | | | | | |
| George AFB | Insulation; Heat- ing, Ventilation & Air Conditioning Modifications | 1,050 (229) ^{1/} | | | | | 1050 (229) ^{1/} '82 |
| | Energy Monitoring & Control System | (800) | | | | | (800) '81 |
| March AFB | High Efficiency Boilers | 330 (199) (134) | 161.8 | 168.2 | | | |
| Hather AFB | Energy Control & Monitoring System | 1,650 | | | | | 1,650 '81 |
| McClellan AFB | Building Modif- ications | 210 | 210 | | | | |
| <u>District of Columbia</u> | | | | | | | |
| Bolling AFB | Heating Lines Modifications | 200 | 141.7 | 58.3 | | | |
| <u>Florida</u> | | | | | | | |
| Hurlburt Field (Eglin AFB) | Insulation, Storm Windows, Lights | 250 | 166.8 | 83.2 | | | |
| Tyndall AFB | Building Modifications | 310 | 138.7 | 171.3 | | | |
| <u>Georgia</u> | | | | | | | |
| Moody AFB | Building Modif- ications, Insulation | 1,150 (183) | 1194 (334) | | 44 | | |
| | Hanger Modif- ications | (184) | | | | | |
| | Energy Monitoring & Control System | (800) | (800) | | | | |
| Robins AFB | Four Buildings | 1,450 (254) | 1309 (194) | 141 | | | |
| | Nine Buildings | (593) | (566) | | | | |
| | Twenty-one Build- ings | (602) | (549) | | | | |
| <u>Idaho</u> | | | | | | | |
| Mountain Home AFB | Heating, Vent- ilation, Air Conditioning, Solar Shading | 290 | 313 | | 23 | | |

^{1/}At those bases with more than one ECIP project, each project amount is given in (), and is included in the base total, listed first.

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimate or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|--------------------|--|------------------------|--|--------------------------------|--------------------------------|-----------|-------------------|
| | | | | CVE Less Than Approp. | CVE More Than Approp. | | |
| THOUSANDS | | | | | | | |
| <u>Illinois</u> | | \$ | \$ | \$ | \$ | \$ | \$ |
| Scott AFB | | 3900 | 3773.1 | 126.9 | | | |
| | Insulation, Storm Windows, Ventilation for 2 Buildings (273) | | | | | | |
| | Insulation, Storm Windows, Sun Screens, 3 Buildings (460) | | | | | | |
| | Headquarters Thermal- pane, Air Conditioning Modifications (1266) | | | | | | |
| | Central Air Condi- tioning; Insulation- 3 Buildings (1902) | | | | | | |
| <u>Louisiana</u> | | | | | | | |
| England AFB | Insulation; Air Conditioning and Temperature Control Modifications for 4 Buildings | 170 | 130 | 40 | | | |
| <u>Maryland</u> | | | | | | | |
| Andrews AFB | Insulation; Window Reduction, EMCS Connection; 5 Buildings | 1190 | | | | | 1190 '82 |
| <u>Michigan</u> | | | | | | | |
| K.I. Sawyer AFB | Insulation; Temperature Control Modification | 110 | 164 | | 54 | | |
| Wurtsmith AFB | | 410 | 241 | 19 | | | |
| | Insulation; Storm Windows, Heating Modifications-2 Buildings (150) | | | | | 150 | |
| | Insulation; Temper- ature Control (258) | | | | | | |
| <u>Mississippi</u> | | | | | | | 840 '80 |
| Keesler AFB | | 840 | | | | | |
| | Insulation; Lighting Reduction, EMCS Connections for 4 Buildings (218) | | | | | | |
| | Insulation, Econ- omizers for 3 Buildings (256) | | | | | | |
| | Insulation, Storm Windows for 10 Dormitories (366) | | | | | | |
| <u>Montana</u> | | | | | | | |
| Meigs AFB | | 330 | 315.4 | 14.6 | | | |
| | Insulation, Temper- ature Controls (101) | | | | | | |
| | Change Power Sources (231) | | | | | | |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimates or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|-----------------------|---|--|---|---|--------------------------------|-----------|----------------------|
| | | | | CVE Less Than APPROP. THOUSANDS | CVE More Than APPROP. | | |
| <u>Nebraska</u> | | | | | | | |
| | | \$ | \$ | \$ | \$ | \$ | \$ |
| | Offutt AFB | 140 | 126.1 | 13.9 | | | |
| <u>Nevada</u> | | | | | | | |
| | Wells AFB | 410 | 344.1 | 65.9 | | | |
| | Building Modifications | (188) | | | | | |
| | Hanger Modif- ications | (224) | | | | | |
| <u>New Mexico</u> | | | | | | | |
| | Kirtland AFB | Insulation | 670 | | | | 670 '82 |
| <u>New York</u> | | | | | | | |
| | Griffiss AFB | | 930 | | | | 930 |
| | Roof Insulation | (180) | | | | | (180) '81 |
| | Building Insulation, Fans | (750) | | | | | (750) '82 |
| | Plattsburgh AFB | Insulation, Storm Windows | 130 | 160.1 | | 30.1 | |
| <u>North Carolina</u> | | | | | | | |
| | Seymour Johnson AFB | Building Modification | 250 | 300 | | 50 | |
| <u>North Dakota</u> | | | | | | | |
| | Minot AFB | Insulation | 250 | 454 | | 204 | |
| <u>Ohio</u> | | | | | | | |
| | Newark AFB | Extension of Energy Monitoring & Control System | 860 | | | | 860 '82 |
| <u>Oklahoma</u> | | | | | | | |
| | Altus AFB | Insulation, Storm Windows, Temperature Controls, Boilers | 310 | 380.3 | | 70.3 | |
| | Tinker AFB | | 3500 | | | | 3500 01/82 |
| | System Controls | (116) | | | | | |
| | Thermostats, Set- back Controls | (160) | | | | | |
| | Insulation, Reduction of Glass | (212) | | | | | |
| | Systems Alterations, EMCS Connection | (274) | | | | | |
| | Insulation; Setback Controls | (710) | | | | | |
| | EMCS Connection, Insulation, Modifications | (570) | | | | | |
| | Insulation, Mech- anical System Modifications | (1370) | | | | | |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriation | Current Work Estimates or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|-----------------------|---|---------------|---|--------------------------------|--------------------------------|-----------|-------------------|
| | | | | CWE Less Than Approp. | CWE More Than Approp. | | |
| THOUSANDS | | | | | | | |
| <u>South Carolina</u> | | \$ | \$ | \$ | \$ | \$ | \$ |
| Myrtle Beach AFB | Insulation, Storm Windows | 310 | 184.2 | 125.8 | | | |
| Shaw AFB | Insulation, Solar Screens, Storm Windows, Modifi- cations | 170 | 157.4 | 12.6 | | | |
| <u>Texas</u> | | | | | | | |
| Bergstrom AFB | Insulation, Modifications to Heating, Cooling, Lighting | 440 | 560 | | 120 | | |
| Brooks AFB | Heating Plant Modifications | 410 | | | | 410 | |
| Carroll AFB | | 260 | 296 | | 36 | | |
| | Lower Ceilings in 2 Buildings | (130) | | | | | |
| | Hanger Modifications | (134) | | | | | |
| Kelly AFB | | 650 | 662.5 | | 12.5 | | |
| | Building Modifi- cations-5 Buildings | (179) | | | | | |
| | Heating System Modifications for 3 Buildings | (214) | | | | | |
| | Insulation, Heating System Modifications- 6 Buildings | (255) | | | | | |
| Lockland AFB | | 1000 | | | | | 1000 '81 |
| | Solar Screens; Water Heater, EMCS Con- nection | (199) | | | | | |
| | Heating System Mod- ification, Solar Screens, Lighting Reduction | (276) | | | | | |
| | Heat Recovery Systems | (521) | | | | | |
| Randolph AFB | Insulation, Building Mod- ification | 130 | 146.7 | | 16.7 | | |
| Sheppard AFB | | 1400 | 1945.4 | | 545.4 | | |
| | Insulation, Glass Painted | (214) | | | | | |
| | Chiller Plant Mod- ifications | (220) | | | | | |
| | Insulation, Solar Screens, Heating System Modifications | (334) | | | | | |
| | Storm Windows, Heat- ing System Modifi- cations-Hospital | (653) | | | | | |

FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM

SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS

AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

| Location | Project | Appropriated Amount | Current Work Estimates or Obligated Amount | Variance | | Cancelled | Deferred \$ FY |
|-------------------|--|------------------------|---|---|--------------------------------|--------------|----------------------|
| | | | | CNE Less Than Approp. THOUSANDS | CNE More Than Approp. | | |
| <u>Utah</u> | | \$ | \$ | \$ | \$ | \$ | \$ |
| Hill AFB | Insulation; New Controls | 3250 (182) | 2944.5 | 305.5 | | | |
| | Insulation, Sus- pended Ceiling & Roof Support | (204.6) | | | | | |
| | Insulation, Controls Modifications | (258.2) | | | | | |
| | New Mechanical System Controls, Insulation, Storm Windows | (2604) | | | | | |
| <u>Washington</u> | | | | | | | |
| Fairchild AFB | Insulation | 150 | 150 | | | | |
| McChord AFB | Insulation, Window Reduction, Heating System Modifications | 900 | | | | | 900 '81 |
| Totals | | <u>\$32,160</u> | <u>\$18,509.9</u> | <u>\$1406.2</u> | <u>-\$1205</u> | <u>\$543</u> | <u>\$12,590</u> |

AIR FORCE
FISCAL YEAR 1980 ENERGY CONSERVATION INVESTMENT PROGRAM
SCHEDULE OF VARIANCES BETWEEN APPROPRIATED AMOUNTS
AND CURRENT WORKING ESTIMATES AS OF DECEMBER 1980

ANALYSIS OF VARIANCE BETWEEN
CURRENT WORKING ESTIMATES AND
APPROPRIATED AMOUNTS

| | |
|--|----------------------|
| Amount Appropriated | \$32,160,000 |
| Current Working Estimate or Obligated Amount | -18,809,800 |
| Total Funds Potentially Available for other Projects | <u>\$ 13,350,200</u> |
| Potential Funds Available From Projects Where CWEs are Less Than the Appropriated Amount | \$ 1,406,200 |
| Projects Cancelled | 560,000 |
| Projects Deferred | 12,390,000 |
| Gross Potential Funds Available | <u>\$ 14,356,200</u> |
| Potential Additional Funds Needed to Complete - Projects Where CWEs are More Than Appropriated Amounts | <u>\$-1,206,000</u> |
| New Potential Funds Available for other Projects | <u>\$13,350,200</u> |