

Center for Nuclear Waste Regulatory Analyses

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December 27, 1996
Contract No. NRC-02-93-005
Account No. 20-5708-158

U.S. Nuclear Regulatory Commission
Attn: Mrs. Barbara D. Meehan
Div. of Contracts and Property Management
Mail Stop T7-12
Washington, DC 20555

Subject: FY97 CNWRA Operations Plans (Revision 9, Change 0) Detailed Cost

Dear Mrs. Meehan:

Enclosed are the detailed FY97 cost summaries sorted by phases for travel, consultants, and direct monies. This information supports the spending plan portion of subject plans for the Division of Waste Management Repository Program, Waste Solidification Systems, and Tank Waste Remediation System.

If you have any questions concerning the development of these detailed costs, please contact Mr. Henry F. Garcia or me.

Sincerely yours,

Wesley C. Patrick
Wesley C. Patrick
President

pm

Enclosures

| | | |
|-----|-----------------|-------------------------|
| cc: | J. Linehan | CNWRA Directors |
| | S. Fortuna | CNWRA Element Managers |
| | M. Knapp | S. Rowe, SwRI Contracts |
| | B. Stiltenspole | |
| | J. Greeves | |
| | M. Federline | |
| | J. Austin | |
| | M. Bell | |

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES
FY97

Waste Solidification Systems (WSS)

CNWRA Operations (COPS)

Igneous Activity (IA)

Structural Deformation & Seismicity (SDS)

Evolution of the Near-Field Environment (ENFE)

Container Life & Source Term (CLST)

Thermal Effects on Flow (TEF)

Repository Design & Thermal Mechanical Effects (RDTME)

Total System Performance Assessment & Integration (TSPAI)

Activities Related to Development of the U.S. Environmental
Protection Agency Yucca Mountain Standard (ARDES)

Unsaturated & Saturated Flow Under Isothermal Conditions (USFIC)

Radionuclide Transport (RT)

Tank Waste Remediation System (TWRS)

| <u>WSS</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97</u> <u>Trip</u> | <u>FY97</u> <u>Total</u> |
|------------------|-----------------------|--------------------|-----------------|----------------------------|-----------------------------|
| WSS | 5706-001 | Buffalo, NY | 3 | 2 | 3,188 |
| WSS | 5706-001 | Buffalo, NY | 6 | 2 | 4,160 |
| WSS | 5706-001 | Washington, DC | 2 | 2 | 3,024 |
| | 5706-001 Total | | | | 10,372 |
| WSS | 5706-002 | Buffalo, NY | 3 | 3 | 4,782 |
| WSS | 5706-002 | Richland, VA | 3 | 1 | 1,649 |
| | 5706-002 Total | | | | 6,431 |
| WSS Total | | | | | 16,803 |

| <u>COPS</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97 Trip</u> | <u>FY97 Total</u> |
|-------------------|-----------------------|--------------------|-----------------|----------------------|-----------------------|
| COPS | 5708-158 | Washington, DC | 3 | 15 | 25,710 |
| COPS | 5708-158 | TBD, USA | 5 | 20 | 32,740 |
| | 5708-158 Total | | | | 58,450 |
| COPS | 5708-159 | Washington, DC | 3 | 1 | 1,714 |
| | 5708-159 Total | | | | 1,714 |
| COPS Total | | | | | 60,164 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97 Trip</u> | <u>FY97 Total</u> |
|-----------------|-----------------------|--------------------|-----------------|----------------------|-----------------------|
| IA | 5708-461 | Chihuahua, MEX | 14 | 2 | 5,376 |
| IA | 5708-461 | Chihuahua, MEX | 5 | 2 | 2,532 |
| IA | 5708-461 | Washington, DC | 3 | 6 | 10,272 |
| IA | 5708-461 | Denver, CO | 5 | 2 | 3,476 |
| IA | 5708-461 | Flagstaff, AR | 5 | 4 | 6,612 |
| IA | 5708-461 | Los Alamos, NM | 4 | 1 | 970 |
| IA | 5708-461 | Las Vegas, NV | 3 | 6 | 5,472 |
| IA | 5708-461 | Las Vegas, NV | 5 | 2 | 2,416 |
| IA | 5708-461 | San Francisco, CA | 7 | 2 | 3,844 |
| IA | 5708-461 | TBD - Foreign | 7 | 2 | 6,450 |
| | 5708-461 Total | | | | 47,432 |
| IA Total | | | | | 47,432 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97</u> <u>Trip</u> | <u>FY97</u> <u>Total</u> |
|------------------|-----------------------|--------------------|-----------------|----------------------------|-----------------------------|
| SDS | 5708-471 | Washington, DC | 3 | 6 | 10,284 |
| SDS | 5708-471 | Denver, CO | 5 | 4 | 6,952 |
| SDS | 5708-471 | Las Vegas, NV | 5 | 6 | 7,248 |
| SDS | 5708-471 | Las Vegas, NV | 7 | 2 | 3,008 |
| SDS | 5708-471 | San Francisco, CA | 5 | 2 | 3,076 |
| SDS | 5708-471 | San Antonio, TX | 5 | 4 | 7,652 |
| SDS | 5708-471 | TBD, USA | 5 | 2 | 3,274 |
| SDS | 5708-471 | TBD - Foreign | 7 | 2 | 6,450 |
| | 5708-471 Total | | | | 47,944 |
| SDS Total | | | | | 47,944 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97</u> <u>Trip</u> | <u>FY97</u> <u>Total</u> |
|-------------------|-----------------------|--------------------|-----------------|----------------------------|-----------------------------|
| ENFE | 5708-561 | Boston, MA | 5 | 2 | 4,356 |
| ENFE | 5708-561 | Washington, DC | 3 | 6 | 10,284 |
| ENFE | 5708-561 | TBD, USA | 3 | 1 | 1,335 |
| ENFE | 5708-561 | TBD - Foreign | 5 | 1 | 2,753 |
| | 5708-561 Total | | | | 18,728 |
| ENFE Total | | | | | 18,728 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97</u> <u>Trip</u> | <u>FY97</u> <u>Total</u> |
|------------------|-----------------------|--------------------|-----------------|----------------------------|-----------------------------|
| TEF | 5708-661 | Washington, DC | 3 | 7 | 11,998 |
| TEF | 5708-661 | TBD, USA | 3 | 4 | 5,340 |
| TEF | 5708-661 | TBD, USA | 5 | 6 | 9,822 |
| | 5708-661 Total | | | | 27,160 |
| TEF Total | | | | | 27,160 |

| | | | | | |
|--------------------|-----------------------|--------------------|-----------------|-------------|-------------|
| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97</u> | <u>FY97</u> |
| RDIME | 5708-671 | TBD, USA | 3 | Trip | Total |
| | | | | 3 | 4,005 |
| | 5708-671 Total | | | | 4,000 |
| RDIME Total | | | | | 4,000 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97</u> <u>Trip</u> | <u>FY97</u> <u>Total</u> |
|--------------------|-----------------------|--------------------|-----------------|----------------------------|-----------------------------|
| TSPAI | 5708-761 | Washington, DC | 3 | 10 | 17,140 |
| TSPAI | 5708-761 | Paris, France | 5 | 1 | 2,488 |
| TSPAI | 5708-761 | TBD, USA | 3 | 4 | 5,340 |
| TSPAI | 5708-761 | TBD, USA | 5 | 6 | 9,822 |
| TSPAI | 5708-761 | TBD - Foreign | 5 | 1 | 2,753 |
| | 5708-761 Total | | | | 37,543 |
| TSPAI | 5708-764 | Washington, DC | 5 | 2 | 4,236 |
| | 5708-764 Total | | | | 4,236 |
| TSPAI Total | | | | | 41,779 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97 Trip</u> | <u>FY97 Total</u> |
|--------------------|-----------------------|--------------------|-----------------|----------------------|-----------------------|
| ARDES | 5708-771 | Washington, DC | 3 | 6 | 10,284 |
| ARDES | 5708-771 | TBD, USA | 3 | 3 | 4,005 |
| ARDES | 5708-771 | TBD, USA | 5 | 3 | 4,911 |
| | 5708-771 Total | | | | 19,200 |
| ARDES Total | | | | | 19,200 |

| <u>KTI</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97 Trip</u> | <u>FY97 Total</u> |
|--------------------|-----------------------|--------------------|-----------------|----------------------|-----------------------|
| USFIC | 5708-861 | Washington, DC | 3 | 8 | 13,712 |
| USFIC | 5708-861 | Las Vegas, NV | 5 | 6 | 7,248 |
| USFIC | 5708-861 | San Francisco, CA | 5 | 2 | 3,076 |
| USFIC | 5708-861 | TBD, USA | 5 | 3 | 4,911 |
| | 5708-861 Total | | | | 28,947 |
| USFIC | 5708-862 | TBD, USA | 5 | 2 | 3,274 |
| | 5708-862 Total | | | | 3,274 |
| USFIC Total | | | | | 32,221 |

| <u>TWRS</u> | <u>Phase</u> | <u>Destination</u> | <u>Man-Days</u> | <u>FY97 Trip</u> | <u>FY97 Total</u> |
|-------------------|-----------------------|--------------------|-----------------|----------------------|-----------------------|
| TWRS | 5709-101 | Washington, DC | 2 | 1 | 1,666 ✓ |
| TWRS | 5709-101 | Richland, VA | 3 | 2 | 3,664 ✓ |
| TWRS | 5709-101 | Richland, VA | 5 | 2 | 4,144 ✓ |
| | 5709-101 Total | | | | 9,474 |
| TWRS | 5709-102 | Aiken, SC | 3 | 1 | 1,496 ✓ |
| TWRS | 5709-102 | Washington, DC | 2 | 1 | 1,666 ✓ |
| TWRS | 5709-102 | London, UK | 7 | 1 | 5,409 ✓ |
| TWRS | 5709-102 | Richland, VA | 5 | 2 | 4,144 ✓ |
| | 5709-102 Total | | | | 12,715 |
| TWRS | 5709-103 | Washington, DC | 2 | 3 | 4,998 ✓ |
| TWRS | 5709-103 | TBD, USA | 5 | 1 | 1,637 ✓ |
| | 5709-103 Total | | | | 6,635 |
| TWRS | 5709-104 | Washington, DC | 2 | 2 | 3,332 ✓ |
| TWRS | 5709-104 | Richland, VA | 2 | 4 | 6,848 ✓ |
| | 5709-104 Total | | | | 10,180 |
| TWRS | 5709-105 | Washington, DC | 2 | 2 | 3,332 ✓ |
| TWRS | 5709-105 | Richland, VA | 2 | 2 | 3,424 ✓ |
| | 5709-105 Total | | | | 6,756 |
| TWRS | 5709-106 | Washington, DC | 2 | 6 | 9,996 ✓ |
| TWRS | 5709-106 | Richland, VA | 2 | 6 | 10,272 ✓ |
| TWRS | 5709-106 | Morristown, NJ | 2 | 2 | 3,532 ✓ |
| | 5709-106 Total | | | | 23,800 |
| TWRS | 5709-107 | Washington, DC | 2 | 2 | 3,332 ✓ |
| TWRS | 5709-107 | Richland, VA | 2 | 3 | 5,136 ✓ |
| | 5709-107 Total | | | | 8,468 |
| TWRS | 5709-108 | Washington, DC | 2 | 3 | 4,998 |
| | 5709-108 Total | | | | 4,998 |
| TWRS Total | | | | | 83,026 |

| <u>WSS</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| WSS | 5706-001 | MAYO | 78 | 8,970 |
| | 5706-001 Total | | | 8,970 |
| WSS Total | | | | 8,970 |

| <u>COPS</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|-------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| COPS | 5708-158 | ADVISORY BOARD | 288 | 36,000 |
| COPS | 5708-158 | TBD3 | 12 | 16,020 |
| COPS | 5708-158 | CONSTBD | 2,322 | 192,726 |
| | 5708-158 Total | | | 244,746 |
| COPS Total | | | | 244,746 |

| <u>KTI</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|-----------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| IA | 5708-461 | CONDIT | 60 | 3,180 |
| IA | 5708-461 | CONSTBD | 475 | 39,425 |
| IA | 5708-461 | DELANEY | 160 | 12,800 |
| IA | 5708-461 | LUHR | 80 | 4,400 |
| | 5708-461 Total | | | 59,805 |
| IA Total | | | | 59,805 |

| <u>KTI</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| SDS | 5708-471 | CONSTBD | 740 | 61,420 |
| SDS | 5708-471 | DONELICK | 56 | 6,160 |
| SDS | 5708-471 | MARRETT | 48 | 1,968 |
| SDS | 5708-471 | MORRIS | 152 | 8,056 |
| SDS | 5708-471 | MORRISG | 20 | 2,100 |
| SDS | 5708-471 | TAJIMA | 48 | 2,928 |
| SDS | 5708-471 | WERNICKE | 36 | 3,960 |
| | 5708-471 Total | | | 86,592 |
| SDS Total | | | | 86,592 |

| <u>KT</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|-------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| ENFE | 5708-561 | APPS | 300 | 26,700 |
| ENFE | 5708-561 | SANF/SAT3 | 1 | 1,031 |
| ENFE | 5708-561 | CONSTBD | 770 | 63,910 |
| ENFE | 5708-561 | GLASSER | 300 | 28,800 |
| ENFE | 5708-561 | LONDON/SAT3 | 1 | 2,303 |
| | 5708-561 Total | | | 122,744 |
| ENFE | 5708-562 | SETH | 1,500 | 105,000 |
| ENFE | 5708-562 | DALLAS/SAT3 | 1 | 711 |
| | 5708-562 Total | | | 105,711 |
| ENFE Total | | | | 228,455 |

| <u>KTI</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| TEF | 5708-661 | CONSTBD | 1,500 | 124,500 |
| TEF | 5708-661 | SETH | 200 | 14,000 |
| TEF | 5708-661 | SAT/DC4 | 2 | 3,832 |
| TEF | 5708-661 | DC/SAT4 | 2 | 3,424 |
| | 5708-661 Total | | | 145,756 |
| TEF Total | | | | 145,756 |

| <u>KTI</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|--------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| TSPAI | 5708-761 | BONANO | 480 | 48,480 |
| TSPAI | 5708-761 | COLORADO/SAT5 | 2 | 3,300 |
| TSPAI | 5708-761 | ALB/SAT5 | 1 | 1,145 |
| TSPAI | 5708-761 | CONSTBD | 250 | 20,750 |
| TSPAI | 5708-761 | POOR | 310 | 22,010 |
| TSPAI | 5708-761 | ROOD | 400 | 27,200 |
| TSPAI | 5708-761 | THORNE | 300 | 22,200 |
| | 5708-761 Total | | | 145,085 |
| TSPAI | 5708-762 | RICE | 400 | 26,000 |
| TSPAI | 5708-762 | WALTON | 300 | 18,900 |
| TSPAI | 5708-762 | IDAHO/SAT5 | 4 | 8,004 |
| TSPAI | 5708-762 | ELPASO/SAT5 | 3 | 3,369 |
| TSPAI | 5708-762 | ELPASO/SAT5 | 3 | 3,369 |
| | 5708-762 Total | | | 59,642 |
| TSPAI Total | | | | 204,727 |

| <u>KTI</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|--------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| ARDES | 5708-771 | CONSTBD | 1,012 | 83,996 |
| ARDES | 5708-771 | TBD5 | 1 | 1,637 |
| | 5708-771 Total | | | 85,633 |
| ARDES Total | | | | 85,633 |

| <u>KTI</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|--------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| USFIC | 5708-861 | CONSTBD | 2,360 | 195,880 |
| USFIC | 5708-861 | WOOLHISER | 600 | 50,400 |
| | 5708-861 Total | | | 246,280 |
| USFIC Total | | | | 246,280 |

| <u>TWRS</u> | <u>Phase</u> | <u>Consultant / Destination</u> | <u>FY97 Hours/Trips</u> | <u>FY97 Total</u> |
|-------------------|-----------------------|-------------------------------------|-----------------------------|-----------------------|
| TWRS | 5709-104 | CONSTBD | 240 | 19,920 - |
| | 5709-104 Total | | | 19,920 ✓ |
| TWRS | 5709-105 | CONSTBD | 150 | 12,450 ✓ |
| | 5709-105 Total | | | 12,450 ✓ |
| TWRS | 5709-106 | CONSTBD | 433 | 35,939 ✓ |
| | 5709-106 Total | | | 35,939 ✓ |
| TWRS | 5709-108 | CONSTBD | 180 | 14,940 ✓ |
| | 5709-108 Total | | | 14,940 ✓ |
| TWRS Total | | | | 83,249 |

| <u>WSS</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|------------------|-----------------------|--------------------|--------------|
| WSS | 5706-001 | Report Services | 240 |
| WSS | 5706-001 | Tphone & Tgram | 28 |
| | 5706-001 Total | | 268 |
| WSS | 5706-002 | Machine Shop | 500 |
| WSS | 5706-002 | Material/Supply | 1,000 |
| WSS | 5706-002 | Report Services | 1,336 |
| WSS | 5706-002 | Temporary Svcs | 150 |
| WSS | 5706-002 | Tphone & Tgram | 116 |
| | 5706-002 Total | | 3,102 |
| WSS | 5706-003 | Machine Shop | 500 |
| WSS | 5706-003 | Material/Supply | 1,300 |
| WSS | 5706-003 | Report Services | 1,800 |
| WSS | 5706-003 | Temporary Svcs | 150 |
| WSS | 5706-003 | Tphone & Tgram | 100 |
| | 5706-003 Total | | 3,850 |
| WSS Total | | | 7,220 |

| <u>COPS</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|-------------------|-----------------------|--------------------|--------------|
| COPS | 5708-158 | Cler Prem Pay | 3,000 |
| COPS | 5708-158 | Material/Supply | 1,500 |
| COPS | 5708-158 | Report Services | 40,000 |
| COPS | 5708-158 | Temporary Svcs | 7,000 |
| COPS | 5708-158 | Tphone & Tgram | 1,000 |
| | 5708-158 Total | | 52,500 |
| COPS | 5708-159 | Quality Assur. | 52,200 |
| | 5708-159 Total | | 52,200 |
| COPS Total | | | 104,700 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|-----------------|-----------------------|--------------------|--------------|
| IA | 5708-461 | Machine Shop | 700 |
| IA | 5708-461 | Material/Supply | 20,000 |
| IA | 5708-461 | Report Services | 25,000 |
| IA | 5708-461 | Temporary Svcs | 300 |
| IA | 5708-461 | Tphone & Tgram | 800 |
| | 5708-461 Total | | 46,800 |
| IA Total | | | 46,800 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|------------------|-----------------------|--------------------|--------------|
| SDS | 5708-471 | Machine Shop | 800 |
| SDS | 5708-471 | Material/Supply | 20,000 |
| SDS | 5708-471 | Report Services | 20,000 |
| SDS | 5708-471 | Temporary Svcs | 500 |
| SDS | 5708-471 | Tphone & Tgram | 500 |
| | 5708-471 Total | | 41,800 |
| SDS Total | | | 41,800 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|-------------------|-----------------------|--------------------|--------------|
| ENFE | 5708-561 | ADP Services | 15,000 |
| ENFE | 5708-561 | Machine Shop | 1,500 |
| ENFE | 5708-561 | Material/Supply | 10,000 |
| ENFE | 5708-561 | Report Services | 20,000 |
| ENFE | 5708-561 | Temporary Svcs | 400 |
| ENFE | 5708-561 | Tphone & Tgram | 400 |
| | 5708-561 Total | | 47,300 |
| ENFE Total | | | 47,300 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|-------------------|-----------------------|--------------------|--------------|
| CLST | 5708-571 | Material/Supply | 500 |
| CLST | 5708-571 | Report Services | 1,500 |
| CLST | 5708-571 | Tphone & Tgram | 100 |
| | 5708-571 Total | | 2,100 |
| CLST Total | | | 2,100 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|------------------|-----------------------|--------------------|--------------|
| TEF | 5708-661 | ADP Services | 15,000 |
| TEF | 5708-661 | Machine Shop | 10,500 |
| TEF | 5708-661 | Material/Supply | 7,000 |
| TEF | 5708-661 | Report Services | 20,000 |
| TEF | 5708-661 | Temporary Svcs | 400 |
| TEF | 5708-661 | Tphone & Tgram | 700 |
| | 5708-661 Total | | 53,600 |
| TEF Total | | | 53,600 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|--------------------|-----------------------|--------------------|--------------|
| RDTME | 5708-671 | Material/Supply | 500 |
| RDTME | 5708-671 | Report Services | 1,500 |
| RDTME | 5708-671 | Tphone & Tgram | 100 |
| | 5708-671 Total | | 2,100 |
| RDTME Total | | | 2,100 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|--------------------|-----------------------|--------------------|--------------|
| TSPAI | 5708-761 | ADP Services | 25,000 |
| TSPAI | 5708-761 | Material/Supply | 15,000 |
| TSPAI | 5708-761 | Report Services | 20,000 |
| TSPAI | 5708-761 | Temporary Svcs | 400 |
| TSPAI | 5708-761 | Tphone & Tgram | 592 |
| | 5708-761 Total | | 60,992 |
| TSPAI | 5708-763 | Material/Supply | 50,000 |
| | 5708-763 Total | | 50,000 |
| TSPAI Total | | | 110,992 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|--------------------|-----------------------|--------------------|--------------|
| ARDES | 5708-771 | Material/Supply | 10,000 |
| ARDES | 5708-771 | Report Services | 20,000 |
| ARDES | 5708-771 | Temporary Svcs | 400 |
| ARDES | 5708-771 | Tphone & Tgram | 400 |
| | 5708-771 Total | | 30,800 |
| ARDES Total | | | 30,800 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|--------------------|-----------------------|--------------------|--------------|
| USFIC | 5708-861 | Machine Shop | 1,000 |
| USFIC | 5708-861 | Material/Supply | 10,000 |
| USFIC | 5708-861 | Report Services | 20,000 |
| USFIC | 5708-861 | Temporary Svcs | 500 |
| USFIC | 5708-861 | Tphone & Tgram | 600 |
| | 5708-861 Total | | 32,100 |
| USFIC Total | | | 32,100 |

| <u>KTI</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|-----------------|-----------------------|--------------------|--------------|
| RT | 5708-871 | Material/Supply | 500 |
| RT | 5708-871 | Report Services | 1,500 |
| RT | 5708-871 | Tphone & Tgram | 100 |
| | 5708-871 Total | | 2,100 |
| RT Total | | | 2,100 |

| <u>TWRS</u> | <u>Phase</u> | <u>Description</u> | <u>Total</u> |
|-------------------|-----------------------|--------------------|--------------|
| TWRS | 5709-101 | Report Services | 2,000 ✓ |
| TWRS | 5709-101 | Tphone & Tgram | 150 ✓ |
| | 5709-101 Total | | 2,150 ✓ |
| TWRS | 5709-102 | Report Services | 2,000 ✓ |
| TWRS | 5709-102 | Tphone & Tgram | 150 ✓ |
| | 5709-102 Total | | 2,150 ✓ |
| TWRS | 5709-103 | Report Services | 3,500 ✓ |
| TWRS | 5709-103 | Tphone & Tgram | 150 ✓ |
| | 5709-103 Total | | 3,650 ✓ |
| TWRS | 5709-104 | Report Services | 4,000 ✓ |
| TWRS | 5709-104 | Tphone & Tgram | 150 ✓ |
| | 5709-104 Total | | 4,150 ✓ |
| TWRS | 5709-105 | Report Services | 2,500 ✓ |
| TWRS | 5709-105 | Tphone & Tgram | 150 ✓ |
| | 5709-105 Total | | 2,650 ✓ |
| TWRS | 5709-106 | Report Services | 6,000 ✓ |
| TWRS | 5709-106 | Tphone & Tgram | 150 ✓ |
| | 5709-106 Total | | 6,150 ✓ |
| TWRS | 5709-107 | Report Services | 2,500 ✓ |
| TWRS | 5709-107 | Tphone & Tgram | 150 ✓ |
| | 5709-107 Total | | 2,650 ✓ |
| TWRS | 5709-108 | Report Services | 2,500 ✓ |
| TWRS | 5709-108 | Tphone & Tgram | 150 ✓ |
| | 5709-108 Total | | 2,650 ✓ |
| TWRS Total | | | 26,200 |