

UTILITY SALES RATES COMPUTATION WORKSHEET

| | |
|--------------|---------|
| NAME OF BASE | SERVICE |
|--------------|---------|

| | |
|--------------------------------|-----------------------|
| CAPITALIZED COST OF FACILITIES | TOTAL ANNUAL CAPACITY |
|--------------------------------|-----------------------|

| | WORK ORDER NO. | TOTAL ANNUAL | ANNUAL CONSUMPTIO | NON-FEDERAL ORGANIZATIO | NON-DOD FEDERAL AGENCY | TOTAL COST LESS | DOD AGENCY |
|---------------|----------------|--------------|-------------------|-------------------------|------------------------|-----------------|------------|
| PURCHASED | | | | | | | |
| | | | | | | | |
| BASE PRODUCED | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | | | | | |
|--------------------------|--|--|--|----|----|--|----|
| A. TOTAL BASIC UNIT COST | | | | \$ | \$ | | \$ |
|--------------------------|--|--|--|----|----|--|----|

| | | | | | | | |
|---|--|--|--|----|----|--|----|
| B. LINE LOSSES (Enter percentage factor _____. Normally .10 x A.) | | | | \$ | \$ | | \$ |
|---|--|--|--|----|----|--|----|

| | | | | | | | |
|------------|--|--|--|--|--|--|--|
| SYSTEM O&M | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | | | | | |
|-------------------------------|--|--|--|----|----|--|----|
| C. TOTAL SYSTEM O&M UNIT COST | | | | \$ | \$ | | \$ |
|-------------------------------|--|--|--|----|----|--|----|

| | | | | | | | |
|--|--|--|--|----|----|--|----|
| D. OTHER UTILITY COSTS(See Part III on reverse.) | | | | \$ | \$ | | \$ |
|--|--|--|--|----|----|--|----|

| | | | | | | | |
|---|--|--|--|----|----|--|--|
| E. ACCELERATION FACTOR FOR MIL LABOR (See DoDR 7000.14, Vol. 4) | | | | \$ | \$ | | |
|---|--|--|--|----|----|--|--|

| | | | | | | | |
|------------------------|--|--|--|----|--|--|--|
| F. CAPITALIZED CHARGES | | | | \$ | | | |
|------------------------|--|--|--|----|--|--|--|

| | | | | | | | |
|-------------------------------------|--|--|--|----|--|--|--|
| G. SUBTOTAL (A + B + C + D + E + F) | | | | \$ | | | |
|-------------------------------------|--|--|--|----|--|--|--|

| | | | | | | | |
|-------------------------------------|--|--|--|----|--|--|--|
| H. ADMINISTRATIVE OVERHEAD(3% OF G) | | | | \$ | | | |
|-------------------------------------|--|--|--|----|--|--|--|

| | | | | | | | |
|--|--|--|--|----|--|--|--|
| I. NON-FEDERAL ORGANIZATION SALE RATE(G + H) | | | | \$ | | | |
|--|--|--|--|----|--|--|--|

| | | | | | | | |
|--------------------------|--|--|--|----|--|--|--|
| J. LOCAL PREVAILING RATE | | | | \$ | | | |
|--------------------------|--|--|--|----|--|--|--|

| | | | | | | | |
|---|--|--|--|--|----|--|--|
| K. NON-DOD FEDERAL AGENCIES SALE RATE (A + B + C + D + E) | | | | | \$ | | |
|---|--|--|--|--|----|--|--|

| | | | | | | | |
|--|--|--|--|--|--|--|----|
| L. DOD AGENCIES SALE RATE(A + B + C + D) | | | | | | | \$ |
|--|--|--|--|--|--|--|----|

| | |
|--|------|
| 14. SIGNATURE OF BASE UTILITY ENGINEER | DATE |
|--|------|

| | |
|--------------------------------------|------|
| 16. SIGNATURE OF BASE CIVIL ENGINEER | DATE |
|--------------------------------------|------|

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About the ITAOP/savePDF Method

The traditional Field-by-Field creation process is extremely ineffective and slow.

The only realistic option to create high-quality forms is the Insert-Text-Anywhere-on-Page (ITAOP) method.

The field creation process is about 10,000 times faster than the traditional method; the list of ITAOP features is not even available for the traditional method.

ITAOP savePDF method proved to be very simple and completely reliable for millions of users all over the world (incl. individuals, companies, organizations, government employees).

NOTE: "Other Utility Cost" applies to all utility services. For domestic or industrial wastewater services complete the following:

| | | | | |
|--------------------------|----------|--------------------------|-----------------------|---|
| <input type="checkbox"/> | DOMESTIC | <input type="checkbox"/> | INDUSTRIAL WASTEWATER | ENTER TIME SELECTED FOR QUANTIFICATION (Day, Week, Month, or Quarter) |
|--------------------------|----------|--------------------------|-----------------------|---|

PART I. QUANTITIES OF OTHER UTILITIES USED (Document Assumptions)

A. ELECTRICITY

(1) FOR COLLECTION (LIFT STATIONS*, PUMPING)

(2) FOR TREATMENT PLANT OPERATIONS**

B. WATER***

(1) FOR SYSTEM CLEANING, WASHDOWNS

(2) FOR PLANT OPERATIONS

C. NATURAL GAS***

(1) FOR HEATING WASTEWATER FACILITIES

(2) FOR TREATMENT PROCESSES (DIGESTER HEATING, DRYING)

D. OTHERS*** (CENTRAL HEAT, CHILLED WATER, COMPRESSED AIR)

* LIFT STATION ELECTRIC POWER CONSUMPTION IS ESTIMATED BY ASSUMING THE AVERAGE PERCENTAGE OF THE FLOW WHICH REQUIRES PUMPING IN THE COLLECTION SYSTEM, THE AVERAGE LIFE (OR HEAD) PUMPED, AND USING THE FOLLOWING FORMULAS. NAME PLATE DATA MAY ALSO BE USED WITH PUMPING CAPACITY.

$$\text{ELECTRICAL ENERGY IN KWH} = \frac{\text{HEAD IN FEET} \times 0.00315}{\text{PUMP EFFICIENCY} \times \text{MOTOR EFFICIENCY}}$$

OR USING AVERAGE COMBINED EFFICIENCIES OF 62.4 PERCENT

$$\text{KWH/KGal} = \frac{\text{HEAD IN FEET} \times 0.00315}{0.624}$$

** TREATMENT PLANT ELECTRIC POWER CONSUMPTION IS OBTAINED BY METERS IF INSTALLED. WHEN NOT METERED, TEMPOR-ARY METERS ARE INSTALLED ON POWER MAINS INTO TREATMENT PLANTS. LACKING EITHER OF THESE, NAME PLATE DATA FROM ALL CONNECTED LOADS AND LIGHTING ARE OBTAINED AND LISTED AND PERCENT OF TIME EACH RUNS IS MEASURED OR ESTIMATED.

*** WHEN NOT METERED, USE BEST ENGINEERING JUDGMENT TO QUALIFY ALL UTILITY CONSUMPTION.

PART II. COSTS (Use DOD Agency Sales Rates)

| | | | | | | | | |
|-------------------|--|------|---|----|--|-------|---|-----------|
| A. ELECTRICITY | | KWH | X | \$ | | /KWH | = | \$ |
| B. WATER | | KGal | X | \$ | | /KGal | = | \$ |
| C. NATURAL GAS | | MCF | X | \$ | | /MCF | = | \$ |
| D. OTHER | | | X | \$ | | / | = | \$ |
| | | | X | \$ | | / | = | \$ |
| | | | X | \$ | | / | = | \$ |
| TOTAL COST | | | | | | | | \$ |

PART III. CALCULATION OF OTHER UTILITY UNIT COST

Divide total cost (from Part II) by total waste water flow for the same period of time and show this amount on page 1 in Item D.

\$ _____ / _____ KGal = \$ _____ /KGal