UTILITY SALES RATES COMPUTATION WORKSHEET

NAME OF BASE	SERVICE
CAPITALIZED COST OF FACILITIES	**TOTAL ANNUAL CAPACITY**

	WORK ORDER NO.	TOTAL ANNUAL	ANNUAL CONSUMPTION	NON-FEDERAL ORGANIZATION	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**

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

☐	DOMESTIC	☐	INDUSTRIAL WASTEWATE	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.

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

OR USING AVERAGE COMBINED EFFICIENCIES OF 62.4 PERCENT

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

** 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