PLAINTIFF'S EXHIBIT

TEX-40

NO.

M-580-14

STANDARD EXPENSES - 18
PUGET SOUND PLANT
YEAR 1969

WA-TEX 009009

RP/WJH / Xtra for [illegible] file @ Anacortes

INDUSTRIAL CHEMICALS DIVISION

Allied Chemical Corporation

MORRIS TOWNSHIP CENTER • P.O. BOX 70 • MORRISTOWN, NEW JERSEY 07960
TEL. (201) 538-8000

PURCHASING HOUSTON

STM	DWM	JLW	TWK
WGT	GVT	ETR	LES
LHM	JUL 31 1969		WKD
CLC			WBG
GNW			
MDM			

July 28, 1969

REFINING DEPT.
H.O. OFFICE
AUG 8 '69

Texaco, Inc.
1111 Rusk Avenue
Houston, Texas

Attention: Mr. W. G. Taylor, Manager
Purchasing Department

Gentlemen:

Re: Agreement No. 6304

Effective July 1, 1969 and continuing through September 30, 1969 the selling price of Sulfuric Acid purchased by you under subject agreement will be \$27.77 per net ton and the charge for conversion acid delivered under this agreement will be \$23.45 per net ton, both charges basis 100% H_2SO_4. These amounts have been determined in accordance with terms of agreement outlined in our letter of agreement dated September 19, 1966 as follows:

	Selling Price Virgin Acid	Conversion Charge
Base price	\$27.25	\$21.75
Variation due to Labor Rate	1.70	1.70
Variation due to Sulfur Cost	(1.18)	---
	\$27.77	\$23.45

Enclosed is our affadavit showing the average wage and the cost of Sulfur at our Anacortes Works for the calendar quarter ended June 30, 1969 and our estimated decrease in sulfur cost for the third quarter, 1969.

Should you have any questions pertaining to this matter, please do not hesitate to call upon us for clarification.

ACCEPTED: TEXACO INC

Signed: W. G. TAYLOR
W. G. TAYLOR, MANAGER
PURCHASING DEPARTMENT

Very truly yours
SIGNED COPY ON FILE
IN PURCHASING DEPT.
James F. Hunter
Customer & Vendor Acctg.

JFH/plh

cc: Mr. E. M. Rogers, District Manager, Pacific Northwest Office
Mr. L. Fisher, Product Manager, Executive Sales
Mr. P. S. May, District Manager, Houston Office

WA-TEX 009010

WA-TEX009010

CERTIFICATE

I, C. F. O'Shea, Assistant to Division Comptroller of INDUSTRIAL CHEMICALS DIVISION, Allied Chemical Corporation, hereby certify that:

The applicable average wage of all employees (except construction employees) at Industrial Chemicals' Anacortes Works and the average delivered cost of Sulfur at said Works, for the calendar quarter ending June 30, 1969, were respectively:

Average wage per hour........................ $ 4.07

Cost of Sulfur, per gross ton................. $44.06

Effective July 1, 1969, cost of Sulfur is estimated to decrease $7.53 per gross ton, to per gross ton...... $36.53

C F O'Shea

July 17, 1969

COPY TRANSMITTED from W. G. TAYLOR
TO JKMcK BP JTT C&S Listing
DATE 8-6-69

WA-TEX 009011

10-21-69

FORM G-6 (2-69) 1400M

PSP Crude Rating File

TEXACO

PSP Crude Ratings
10-15-69

PSP Semi & Non-Var 10-15-69

22,726,000 per R-1211-F
23,018,000 per EDP [illegible] 244,571
10,245,625 11-2-66 00 BPY

ACM Card R-1735, 1st 6 Mos '69

Semi & Non-Var

Semi-Var = .2089 on 1/2 of 20,491,250

Non Var = .2299

use # .2089 X 20,491,250 BPY
23,018,000 BPY

= .18596 bbl semi-var
use .1860

3,640,000 = Est Total 04 for yr with
23,018,000 Joint Int [illegible]
= .1581 Non-Var
.1860
.3441 use this 10-20-69

	Total Refining	Crude Expense	Vacuum [illegible]		[illegible]	[illegible]	[illegible] Recovery		
ESTIMATED DIVISOR — Barrels	22726000		22726000					1961800	
CAPACITY — Barrels									
Direct Variable Charges									
Fuel @ $1.00									
Direct Fuel	.051	1168837	.024	527759	22830	-0-	-0-	.010	158731
Fuel in Steam, Power, & Water	.027	611400	.003	71600	56800	6300	8800	.027	216600
Fuel in Auxiliaries	-	-0-	.003	74730				-	-0-
Total Fuel	.078	1780237	.030	674089				.047	375331
Miscellaneous — Fuel Only (1)	<.015>	<341660>						<.043>	<341660>
Purchased Power	.010	219900	.001	80800	26200	2400	-0-	.006	45000
Purchased Water	.005	118200	.001	22600	4000	500	500	.005	39300
Purchased Utilities in Auxiliaries			.001	33600				-	-0-
Chemicals									
Acid	.012	276700	-	-0-				-	-0-
Hydrobon Catalyst	-	-0-	-	-0-				-	-0-
Other Catalyst	.026	577450	-	-0-				.061	487556
Chemicals — Auxiliaries	-	-0-	-	-0-				-	-0-
Other Chemicals	.002	56573	.001	17100				.001	6400
Total Chemicals	.040	910723	.001	17100				.062	493956
Royalties (Running Royalties)	-	-0-	-	-0-				-	-0-
TOTAL DIRECT VARIABLE CHARGES	.118	2687400	.034	768189				.077	611927
SEMI-VARIABLE CHARGES									
Operators — (ex T&I)	.036	818027	.006	142656	-0-	5023	5023	.023	183383
Test and Inspection — Labor	.006	128548	.001	23627	-0-	-0-	-0-	.003	25542
Maintenance — Labor	.018	402606	.003	64327	34934	-0-	-0-	.013	100686
Test and Inspection — Contract Work	.016	361000	.006	137000	-0-	-0-	-0-	.013	100000
Maintenance — Contract Work	.007	148700	-	2900	2500	-0-	-0-	.005	39700
Test and Inspection — Material	.003	64000	-	-0-	-0-	-0-	-0-	.006	45000
Maintenance — Material	.011	262797	.002	43500	17100	900	900	.007	57297
Employe Benefits	.028	643490	.004	109972	16731	2445	2445	.018	147681
Indirect Plant — Labor	.029	668997	.005	114322	17394	2542	2542	.019	153535
Indirect Plant — Other	.021	483177	.004	82575	12563	1836	1836	.014	110889
SP&W. — Charges Other Than Fuel & Purch. Utilities	.027	606157	.003	70927	36488	6252	8712	.027	214728
Auxiliaries — Other Than Fuel, Chemicals & Purch. Util.	-	-0-	.008	178166	-	-	-	-	-0-
Miscellaneous — Other	<.015>	<342988>	-	-0-	-	-	-	<.043>	<342988>
Rentals and Royalties	-	-0-	-	-0-				-	-0-
TOTAL SEMI-VARIABLE CHARGES	.187	4244514	.042	969982				.105	835453
Total Variable & Semi Variable Charges	.305	6931914	.076	1738171				.182	1447380
NON-VARIABLE CHARGES									
Depreciation									
Insurance & Taxes Related to Investment									
General Office and General Overhead									
Auxiliaries (F&OH)									
Rentals and Royalties									
TOTAL NON-VARIABLE CHARGES									
TOTAL EXPENSE									

Notes: (1) Credit For Fuel Only In Steam Produced From CO & Wasteheat Boilers

Fluid Catalytic Cracking Unit	341660	Barrels @ $1.00
Total Crude Refining Expense	341660	Barrels @ $1.00

The Estimated Divisor Represents Charge To Unit Except Polymerization Which Is Based On Combined Stream Of True Polymer And Light SR Gaso; And Alkylation Which Is Based On Alkylate Production.

WA-TEX009013

	Polymerization		Catalytic Reforming		Hydrotreating		[illegible]		Storage & Shipping	
ESTIMATED DIVISOR — Barrels	298000		[illegible]		8112200		[illegible]		[illegible]	
CAPACITY — Barrels										
Direct Variable Charges										
Fuel @ $1.00										
Direct Fuel	-	-0-	.063	243969	.029	232248	-	-0-	-	-0-
Fuel in Steam, Power & Water	.254	75900	[illegible]	15700	.001	7500	.09[illegible]	96900	.008	75300
Fuel in Auxiliaries	-	-0-	-	-0-	-	-0-			-	-0-
Total Fuel	.254	75900	.073	243969	.030	239748	.097	96900	.008	75300
Miscellaneous — Fuel Only (1)	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
Purchased Power	.061	18100	.003	12100	.005	41400	.004	4200	.002	49700
Purchased Water	.052	15400	.003	9500	.001	12200	.013	12300	-	1900
Purchased Utilities in Auxiliaries	-	-0-					-	-0-	-	-0-
Chemicals										
Acid	-	-0-	-	-0-	-	-0-	.277	276700	-	-0-
Hydrobon Catalyst	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
Other Catalyst	.110	32900	.016	54794	-	2200	-	-0-	-	-0-
Chemicals — Auxiliaries	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
Other Chemicals	.042	12373	.002	5200	-	200	.008	8400	-	6900
Total Chemicals	.152	45273	.018	59994	-	2400	.285	285100	-	6900
Royalties (Running Royalties)	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
TOTAL DIRECT VARIABLE CHARGES	.519	154673	.097	324563	.036	295748	.399	398500	.006	133800
SEMI-VARIABLE CHARGES										
Operators — (ex T&I)	.234	69740	.021	69631	.008	69631	.070	69740	.009	103200
Test and Inspection — Labor	.101	30003	.004	14475	.002	14475	.020	20426	-	-0-
Maintenance — Labor	.063	18758	.007	21837	.001	11791	.025	24911	.006	125362
Test and Inspection — Contract Work	.201	60000	.010	32000	.004	32000	-	-0-	-	-0-
Maintenance — Contract Work	.133	39700	.002	7000	.001	7000	.007	7000	.002	42900
Test and Inspection — Material	.022	6500	.001	3500	.001	6000	.003	3000	-	-0-
Maintenance — Material	.050	14900	.004	14900	.003	20300	.017	17000	.003	76000
Employe Benefits	.190	56448	.015	50514	.006	45688	.055	54890	.007	156626
Indirect Plant — Labor	.197	58738	.016	52516	.006	47499	.057	57066	.007	162834
Indirect Plant — Other	.142	42423	.011	37929	.004	34306	.041	41215	.005	117605
SP&W — Charges Other Than Fuel & Purch. Utilities	.253	75282	.005	15579	.001	7482	.096	96038	.003	74719
Auxiliaries—Other Than Fuel, Chemicals & Purch. Util.	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
Miscellaneous — Other	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
Rentals and Royalties	-	-0-	-	-0-	-	-0-	-	-0-	-	-0-
TOTAL SEMI-VARIABLE CHARGES	1.586	472492	.096	319881	.037	296172	.391	391285	.042	959246
Total Variable & Semi-Variable Charges	2.105	627165	.193	644444	.073	591920	.790	789785	.048	1093046
NON-VARIABLE CHARGES										
Depreciation										
Insurance & Taxes Related to Investment										
General Office and General Overhead										
Auxiliaries (F&OH)										
Rentals and Royalties										
TOTAL NON-VARIABLE CHARGES										
TOTAL EXPENSE										

Notes: (1)

INDIRECT

	% Direct Labor	Labor	Other	A&S & Vacation	Payroll Taxes Etc.
VPS	17.09	114 332 ✓	82 575 ✓	36 615 ✓	73 357 ✓
Decarbonizer	2.60	17 394 ✓	12 563 ✓	5 571 ✓	11 160 ✓
BS&W	.38	2 542 ✓	1 836 ✓	814 ✓	1 631 ✓
FCCU	22.95	153 535 ✓	110 884 ✓	49 170 ✓	98 511 ✓
Poly	8.78	58 738 ✓	42 423 ✓	18 811 ✓	37 287 ✓
CRU	7.85	52 516 ✓	37 929 ✓	16 819 ✓	33 695 ✓
Alky	8.53	57 065 ✓	41 215 ✓	18 276 ✓	36 614 ✓
HTU	7.10	47 499 ✓	34 306 ✓	15 212 ✓	30 476 ✓
Shipping - RP&S	24.34	162 834 ✓	117 605 ✓	52 148 ✓	104 478 ✓
Waste Oil Recovery	.38	2 542 ✓	1 836 ✓	814 ✓	1 631 ✓
Totals		668 997	483 179	214 250	429 240
	100.00%				

A&S	26 550
Vacation	187 700
Total	214 250
Labor	668 997
Other	
Cont Work	69 520
Mat'l	159 200
Fuel	75 705
Util	73 046
Other	51 896
Misc.	53 810
Total	483 177

WA-TEX009015

increase these by \$12,900
11,300 to voc
1600 to A&SB

~~Revised Budget~~

201,350 vacation - A&S
2,145,165 grand total labor Exhibit I - R-1211-E - decr by \$138,100
2,346,515 Total
2,264,300 Plant Labor Revised Budget
86485 Acctg Expenses
~~2,350,785~~

Original Budget Request

\$ 2,252,000 plant labor
81,910 acctg
2,333,910
× 107
2,497,284 Total Request
2,346,511 from R-1211E
\$ 150,773 - R-1211 looks low by this amt.
\$ 151,000 should be prorated back to R-1211 - Labor and Voc & A&SB

PSP

The exhibits should be checked against the previous years report before completion & Typing to assure a good report in 69 due to the basis of mid year budget & effect of Strike.
(rather than original or appr. 1969 budget.

WA-TEX009016

FORM G-147 (4-66) 125M

El Paso	R-1211-E	Annual Budget Request	Annual Budget O/<U> R-1211	Appr. Budget	Appr Budget O/<U> R-1211
Crude ex other Dists capacity + 7%	5 338	5 378		5 277	
Salaries & Wages <Incl Vac & ASSB>	$ 1 663 300	$ 1 829 807	$ 166 507	$ 1 823 807	$ 160 507
Pro rate this back to plant labor		Vac ASSB →	$ 167 000		
Contract Work	27 200	32 000	4 800	31 200	4 000
Material	360 000	385 700	25 700	374 700	14 700
Fuel Bbls	605 900	613 900	8 000	596 223	< 9 677
fuel Unit	.1135	.1142	.0007	.1130	<.0005>
Purchased Power	139 500	139 900	400	135 900	< 3 600
Chemicals FCCU Cat.	85 200	86 400	1 200	83 900	< 1 300
CRU	25 300	24 000	< 1 300>	23 300	< 2 000>
Alky Acid	164 400	171 200	6 800	166 200	1 800
All others	56 400	57 300	900	55 700	700
Total Chemicals	331 300	338 900	7 600	329 100	< 2 200
Total Plant	$ 3 574 906	$ 3 773 307 119 707	$ 198 407	$ 3 713 207	$ 138 307
Puget Sound Crude ex other Dists	21 616 500	21 864	247 500	21 726	109 500
Salaries & wages	$ 2 346 515	$ 2 497 284	$ 150 769	$ 2 480 284	$ 133 769
Pro rate this back to plant labor	and vac ASSB →		$ 157 000		
Contract Work	581 920	530 900	< 51 020>	514 900	< 67 020
Material	549 397	560 100	10 703	544 100	< 5 297
Fuel Bbls	1 494 215	1 446 820	< 47 395>	1 405 944	< 88 271
fuel unit	.0691	.0662	<.0029>	.0647	
Purchased Power	289 215	290 900	1 685	282 500	< 6 715
Chemicals FCCU cat	487 556	464 500	< 23 056>	451 500	< 36 056
CRU	54 794	55 000	206	53 000	< 1 794
Alky	276 700	314 100	37 400	305 000	28 300
All others	91 673	89 200	< 2 473>	86 300	< 5 373
Total Chemicals	910 723	922 800	12 077	895 800	$ < 14 923
Total Plant	7 757 691	7 360 244 163 374	< 397 447>	7 208 644 163 374	< 549 047
	Increased $525,608 (= $446,770) due add'l fuel and change in fuel price of $.299 per bbl				
Ex Fuel price increase	$ 7 310 921	7 360 244	49 323	7 208 644	< 102 277

WA-TEX 009017

WA-TEX009017

TEXACO

Anacortes, Washington 98221, May 16, 1969

FORM R-1211-E
ESTIMATED OPERATING EXPENSES
YEAR 1969

AIR MAIL

PERSONAL AND
CONFIDENTIAL

MEMORANDUM

Mr. J. R. Lemmer
Houston, Texas 77052

We are submitting herewith Estimated Crude Refining Expenses, Form R-1211-E, Exhibits 1, 2, 3 and 4.

The activities shown on the attached statements are in agreement with those shown in the Mid-Year Budget Request, Form R-1259 as submitted, except Alky Acid has been reduced by $52,892 and Material by $18,453. No new equipment is to start up and none of the present equipment is to be shut down during the year.

The following is a breakdown of Expenses included under Miscellaneous Expense:

FCCU - Credit for Steam	$ (772,552)		
Sub-Total Direct Plant		$ (772,552)	
Charge Steam Dept. for above item	772,552		
Purchased Power	289,215		
Purchased Water	121,931		
Total SP&W		1,183,698	
Vacation Pay	176,400		+11,800 = 187,700
A&S Benefits	24,950		201,350
Telephone	10,330		+1600 = $26,550
Telegraph	2,120		
Contributions & Donations	200		
Memberships & Subscriptions	50		
Postage	1,703		
Traveling & Personal	9,063		
All Other Expenses	22,268		
Sales Dept. - Electrical Sign & Services	(4,400)		
Marine Dept. Services	(3,544)		$268060
Rentals	16,020		
Sub Total Indirect		255,160	+12,900
Grand Total Miscellaneous Expense		$ 666,306 +12,900 679,206	

Included in Material Operating is an estimate of $6,100 for Printing & Stationery and excluded from Material Operating is an estimate of $2,100 for Hydrogen which has been included with Chemicals.

WA-TEX 009018

Labor costs are based on the following manpower:

	No. Men	Cost
Calendar Personnel & Other Staff	6	0
Construction & Outside Charges	4	26,200
Plant Expense - Form R-1259	261	2,346,515
Total Labor	271	$ 2,372,715
Less: Vacation Pay		176,400
A&S Benefits		24,950
Construction & Outside		26,200
Labor Distributed on Form R-1211-E as Labor		$ 2,145,165

The following is a breakdown of the component costs used in pricing out steam produced from C.O. and waste heat boilers:

	FCCU
M Lbs. Steam	2,359,000
BTU's/Lb.	1,318
MM BTU's	3,109,000
Total Steam Cost Basis Unit Cost Previous Report	248,489
Credit for Steam	$ 772,552
Component Costs:	
Labor	~~230,298~~ 246419
Material	54,079
Contract Work	2,858
Fuel Bbls.	341,660
Fuel Cost	445,685
Transfers of Steam	(19,391)
Transfers from Power	39,168
Transfers from Water	19,855
	$ ~~772,552~~ 788673

G. V. CARROLL

GVC-LKC

JRL(2)
JFF(Stat. Refg.)

Attachments

ARP
WPB

FORM R-1211-E
EXHIBIT I

PLANT LABOR AND CONTRACT WORK
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.		Activities Barrels		LABOR: Operators-Ex. I&T Number Employes	LABOR: Operators-Ex. I&T $ Amt.	LABOR: I&T $ Amt.	LABOR: Maint. $ Amt.	LABOR: Total $ Amt.	Contract Work: I&T	Contract Work: Maint.	Contract Work: Total
1.	VPS	22,726,000		14.0	134,000	22,200	60,400	216,600	137,000	2,900	139,900
2.	Decarbonizer		(1)				32,900	32,900		2,500	2,500
3.	FCCU	7,961,800		18.0	172,300	24,000	94,600	290,900	100,000	39,700	139,700
4.	Poly (Bbls.Polym.)(4)	298,000		7.0	65,500	28,200	17,600	111,300	60,000	39,700	99,700
5.	Catalytic Reform.	3,336,100		7.0	65,500	13,600	20,400	99,500	32,000	7,000	39,000
6.	Alky(Bbls.Alkylate)	999,400		7.0	65,500	19,200	23,400	108,100		7,000	7,000
7.	Hydrotreating	8,113,200		7.0	65,500	13,600	10,900	90,000	32,000	7,000	39,000
8.	Shipping Bulk	21,398,900	(2)				38,600	38,600		5,000	5,000
9.	RP&S			20.0	190,900		79,100	270,000		37,900	37,900
10.	BS&W			0.5	4,800			4,800			
11.	Waste Oil Recov.			0.5	4,800			4,800			
12.	Total Direct	21,616,500		81.0	768,800	120,800	377,900	1,267,500	361,000	148,700	509,700
13.	S.P.&W.			13.0	125,400		123,665	249,065		2,700	2,700
14.	Indirect Plant		(3)	15.0	134,400		494,200	628,600		69,520	69,520
15.	GRAND TOTAL			109.0	1,028,600	120,800	995,765	2,145,165	361,000	220,920	581,920

1,094,580 128,548 1,060,897 2,283,265

530,900 50,000

(1) Operated by VPS Personnel
(2) Included in RP&S Dock Forces
(3) Includes 14 from Laboratory and 1 from Effluent Treating
(4) Olefins are being alkylated rather than polymerized

$138,100 should be pro-rated back to all direct labor due to PSP used the mid year budget rather than the original budget. The mid year budget has strike effect in it.

GVC-LKC 5-16-69
JRL(2)
JFF(Stat. Refg.)

R-1211-E
Exhibit II

MATERIAL, MISCELLANEOUS EXPENSE AND FUEL CONSUMED
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.		Material I&T	Material Maint.	Material Total	Misc. Expense	Fuel Consumed Total Gas Std. Bbls.	Fuel Consumed Liquid Std. Bbls.	Fuel Consumed Total Fuel $ Amount	
1	VPS		43,500	43,500		527,759	0 unit .0232	1,209,220	VPS
2	Decarbonizer		17,100	17,100		22,830	0	52,310	
3	FCCU	45,000	57,297	102,297	(772,552)	29,871 158731	128,860 .0199	207,110	FCCU
4	Poly (Bbls. Polymer)	6,500	14,900	21,400					
5	Catalytic Reform	3,500	14,900	18,400		190,429 227269	36,840 .0681	475,910	CRU
6	Alky (Bbls. Alkylate)	3,000	17,000	20,000					
7	Hydrotreating	6,000	20,300	26,300		232,248	0 .0286	532,110	HTU
8	Shipping Bulk		20,600	20,600					
9	RP&S		55,400	55,400					
10	BS&W		900	900					
11	Waste Oil Recovery		900	900					
12	Total Direct	64,000	262,797	326,797	(772,552)	1,003,137	165,700	2,476,660	
13	SP&W		63,400	63,400	1,183,698	60,596	261,688	420,410	
14	Indirect Plant		159,200	159,200	255,160 + 12900	3,094	322,284	7,110	
15	GRAND TOTAL	64,000	485,397	549,397	666,306 + 12,900	1,066,827	427,388	2,904,180	
				560 100	Basis attached sheets	1,494,215			

GVC-FAH

JRL (2)

JFF (STAT. REFG.)

	Std. Bbls.	$/Bbl.	Amount
Gas Produced	939,120	2.29	2,150,585
Liquid Fuel	427,388	1.076	459,869
Purchased Gas	127,707	2.30	293,726
	1,494,215	1.943	2,904,180
	1446 820		447 691
	47395		2456 489
	1.644		
	$77,917.		

less Upper Budget fuel price 1.644

FORM R-1211-E
Exhibit III
Sheet 1 of 2

DETAILED DISTRIBUTION OF CHEMICALS CONSUMED
ESTIMATED CRUDE REFINING OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.	Chemical	V P S Quantity	V P S Amount	F C C U Quantity	F C C U Amount	Poly Quantity	Poly Amount	Alkylation Quantity	Alkylation Amount
1	Acid, Alky Sulfuric-Tons							10,753	276,700
2	Anti-Foam DC-200 Lbs.	1,065	1,600						
3	Catalyst: -								
4	HDS-2 Hydrotreater - Lbs.								
5	Davison XZ-25 - Tons			1,561	487,556				
6	UOP #1 Poly-Lbs.					108,000	32,900		
7	UOP-R-11 Platinum - Lbs.								
8	Caustic Soda - Lbs.			179,400	6,400	179,400	6,400	92,400	3,400
9	Monoethanolamine - Lbs.					28,500	5,773		
10	Nalco-537-D	6,300	15,500						
11	Sodium Chloride - Lbs.					16,600	200	409,200	5,000
12	Hydrogen - Cu. Ft.								
	TOTAL		17,100		493,956		45,273		285,100

GVC-FAH
[illegible]RL (2)
JFF (STAT. REFG.)

WA-TEX 009022

FORM R-1211-E
Exhibit III
Sheet 2 of 2

DETAILED DISTRIBUTION OF CHEMICALS CONSUMED
ESTIMATED CRUDE REFINING OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

LINE NO.	CHEMICAL	HYDROTREATING Quantity	HYDROTREATING Amount	RP&S Quantity	RP&S Amount	CAT. REFORMING Quantity	CAT. REFORMING Amount	TOTAL Amount
1	Acid, Alky Sulfuric - Tons							276,700
2	Anti-Foam DC-200-Lbs.							1,600
3	Catalyst: -							
4	HDS-2 Hydrotreater - Lbs.	2,400	2,200					2,200
5	Davison XZ-25 - Tons							487,556
6	UOP #1 Poly-Lbs.							32,900
7	UOP-R-11 Platinum Lbs.					14,600	54,794	54,794
8	Caustic Soda-Lbs.					92,300	3,300	19,500
9	Monoethanolamine-Lbs.							5,773
10	Nalco 537-D - Gals.							15,500
11	Sodium Chloride-Lbs.			572,700	6,900			12,100
12	Hydrogen-Cu. Ft.	15,000	200			127,600	1,900	2,100
13	TOTAL		2,400		6,900		59,994	910,723

922,806

GVC-FAH

JRL (2)

JFF (Stat. Refg.)

WA-TEX 009023

WA-TEX009023

STEAM, POWER & WATER EXPENSES
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.		FUEL Barrels	FUEL Amount	Purchased Power	Purchased Water	Other Cost	Total SP&W	Total Plant
1	VPS	71,600	93,400	20,800	22,600	69,200	206,000	1,832,320
2	Decarbonization	36,800	48,000	26,200	4,000	35,600	113,800	218,610
3	FCCU	216,600	282,500	45,000	39,300	209,500	576,300	1,037,711
4	Polymerization	75,900	99,000	18,100	15,400	73,400	205,900	483,573
5	Catalytic Reforming	15,700	20,500	12,100	9,500	15,200	57,300	750,104
6	Alkylation	96,900	126,400	4,200	12,300	93,700	236,600	656,800
7	Hydrotreating	7,500	9,800	41,400	12,200	7,300	70,700	760,510
8	Shipping Bulk	6,300	8,200	11,000	400	6,100	25,700	89,900
9	RP&S	69,000	90,000	38,700	1,500	66,800	197,000	567,200
10	BS&W	6,300	8,200	2,400	500	6,100	17,200	22,900
11	Waste Oil Recovery	8,800	11,500	0	500	8,500	20,500	26,200
12	TOTAL	611,400	797,500	219,900	118,200	591,400	1,727,000	6,445,828
13	S. P. & W.						(1,919,273)	0
14	Indirect Plant	52,544	68,595	69,315	3,731	50,632	192,273	1,311,863
15	GRAND TOTAL	663,944	866,095	289,215	121,931	642,032	0	7,757,691

FORM R-1211-E
Exhibit IV
Page 2 of 2

STEAM, POWER & WATER EXPENSES
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Distribution	Steam	Power	Water	Total
Fuel - Barrels	657,603		6,341	663,944
Fuel - Cost	857,824		8,271	866,095
Purch. - Power	36,368	190,295	62,552	289,215
Purch. - Water	19,251		102,680	121,931
Other Cost	~~579,529~~ 593994	~~3,100~~ 3177	59,403 60885	642,032 658053
TOTAL COST	1,~~492,972~~ 1,507,434	193,395 193,472	232,906 234,388	1,919,273 1,935,294
Avg. Steam Cost/M Lbs.	$ .265266			
Avg. Power Cost/KW		$ .004716		
Avg. Water Cost/M Gals			$ .100160	

1024485368

Purchased Utility Rates

* Last Increment of Power/KW	$ .000000	
Last Increment of Water/M Gal.		$ .039000

SP&W Fuel Summary

Total SP&W Fuel from Exhibit II	Barrels	322,284
Plus FCCU Waste Heat Fuel Credit	Barrels	341,660
TOTAL SP&W FUEL TO DISTRIBUTE	Barrels	663,944

* PSP has a power contract based on a peak demand of 8000 KW. No additional payment is required unless demand exceeds 8000 KW, and if demand exceeds 8000 KW the monthly charge will be increased by $2.31 per KW in excess of 8000.

GVC-FAH
JRL (2)
JFF (STAT-REFG)

T E X A C O

Anacortes, Washington 98221, May 16, 1969

FORM R-1211-E
ESTIMATED OPERATING EXPENSES
YEAR 1969

AIR MAIL

PERSONAL AND
CONFIDENTIAL

MEMORANDUM

Mr. J. R. Lemmer
Houston, Texas 77052

We are submitting herewith Estimated Crude Refining Expenses, Form R-1211-E, Exhibits 1, 2, 3 and 4.

The activities shown on the attached statements are in agreement with those shown in the Mid-Year Budget Request, Form R-1259 as submitted, except Alky Acid has been reduced by $52,892 and Material by $18,453. No new equipment is to start up and none of the present equipment is to be shut down during the year.

The following is a breakdown of Expenses included under Miscellaneous Expense:

FCCU - Credit for Steam	$ (772,552)	
Sub-Total Direct Plant		$ (772,552)
Charge Steam Dept. for above item	772,552	
Purchased Power	289,215	
Purchased Water	121,931	
Total SP&W		1,183,698
Vacation Pay	176,400	
A&S Benefits	24,950	
Telephone	10,330	
Telegraph	2,120	
Contributions & Donations	200	
Memberships & Subscriptions	50	
Postage	1,703	
Traveling & Personal	9,063	
All Other Expenses	22,268	
Sales Dept. - Electrical Sign & Services	(4,400)	
Marine Dept. Services	(3,544)	
Rentals	16,020	
Sub Total Indirect		255,160
Grand Total Miscellaneous Expense		$ 666,306

Included in Material Operating is an estimate of $6,100 for Printing & Stationery and excluded from Material Operating is an estimate of $2,100 for Hydrogen which has been included with Chemicals.

Labor costs are based on the following manpower:

	No. Men	Cost
Calendar Personnel & Other Staff	6	0
Construction & Outside Charges	4	26,200
Plant Expense - Form R-1259	261	2,346,515
Total Labor		$ 2,372,715
Less: Vacation Pay		176,400
A&S Benefits		24,950
Construction & Outside		26,200
Labor Distributed on Form R-1211-E as Labor		$ 2,145,165

The following is a breakdown of the component costs used in pricing out steam produced from C.O. and waste heat boilers:

	FCCU
M Lbs. Steam	2,359,000
BTU's/Lb.	1,318
MM BTU's	3,109,000
Total Steam Cost Basis Unit Cost Previous Report	.248,489
Credit for Steam	$ 772,552
Component Costs:	
Labor	230,298
Material	54,079
Contract Work	2,858
Fuel Bbls.	341,660
Fuel Cost	445,685
Transfers of Steam	(19,391)
Transfers from Power	39,168
Transfers from Water	19,855
	$ 772,552

Signed: G. V. CARROLL

G. V. CARROLL

GVC-LKC

JRL(2)
JFF(Stat. Refg.)

Attachments

ARP
WPB

FORM R-1211-E
EXHIBIT I

PLANT LABOR AND CONTRACT WORK
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

			LABOR								
			Operators-Ex. I&T		I&T	Maint.	Total	Contract Work		
Line No.		Activities Barrels	Number Employes	$ Amt.	$ Amt.	$ Amt.	$ Amt.	I&T	Maint.	Total
1.	VPS	22,726,000	14.0	134,000	22,200	60,400	216,600	137,000	2,900	139,900
2.	Decarbonizer	(1)				32,900	32,900		2,500	2,500
3.	FCCU	7,961,800	18.0	172,300	24,000	94,600	290,900	100,000	39,700	139,700
4.	Poly (Bbls.Polym.)(4)	298,000	7.0	65,500	28,200	17,600	111,300	60,000	39,700	99,700
5.	Catalytic Reform.	3,336,100	7.0	65,500	13,600	20,400	99,500	32,000	7,000	39,000
6.	Alky(Bbls.Alkylate)	999,400	7.0	65,500	19,200	23,400	108,100		7,000	7,000
7.	Hydrotreating	8,113,200	7.0	65,500	13,600	10,900	90,000	32,000	7,000	39,000
8.	Shipping Bulk	21,398,900(2)				38,600	38,600		5,000	5,000
9.	RP&S		20.0	190,900		79,100	270,000		37,900	37,900
10.	BS&W		0.5	4,800			4,800			
11.	Waste Oil Recov.		0.5	4,800			4,800			
12.	Total Direct	21,616,500	81.0	768,800	120,800	377,900	1,267,500	361,000	148,700	509,700
13.	S.P.&W.		13.0	125,400		123,665	249,065		2,700	2,700
14.	Indirect Plant	(3)	15.0	134,400		494,200	628,600		69,520	69,520
15.	GRAND TOTAL		109.0	1,028,600	120,800	995,765	2,145,165	361,000	220,920	581,920

(1) Operated by VPS Personnel
(2) Included in RP&S Dock Forces
(3) Includes 14 from Laboratory and 1 from Effluent Treating
(4) Olefins are being alkylated rather than polymerized

GVC-LKG 5-16-69
JRL(2)
JFF(Stat. Refg.)

WA-TEX009028

MATERIAL, MISCELLANEOUS EXPENSE AND FUEL CONSUMED
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.		Material			Misc.	Fuel Consumed		
		I&T	Maint.	Total	Expense	Total Gas Std. Bbls.	Liquid Std. Bbls.	Total Fuel $ Amount
1	VPS		43,500	43,500		527,759	0	1,209,220
2	Decarbonizer		17,100	17,100		22,830	0	52,310
3	FCCU	45,000	57,297	102,297	(772,552)	29,871	128,860	207,110
4	Poly (Bbls. Polymer)	6,500	14,900	21,400				
5	Catalytic Reform	3,500	14,900	18,400		190,429	36,840	475,910
6	Alky (Bbls. Alkylate)	3,000	17,000	20,000				
7	Hydrotreating	6,000	20,300	26,300		232,248	0	532,110
8	Shipping Bulk		20,600	20,600				
9	RP&S		55,400	55,400				
10	BS&W		900	900				
11	Waste Oil Recovery		900	900				
12	Total Direct	64,000	262,797	326,797	(772,552)	1,003,137	165,700	2,476,660
13	SP&W		63,400	63,400	1,183,698	60,596	261,688	420,410
14	Indirect Plant		159,200	159,200	255,160	3,094		7,110
15	GRAND TOTAL	64,000	485,397	549,397	666,306	1,066,827	427,388	2,904,180

	Std. Bbls.	$/Bbl.	Amount
Gas Produced	939,120	2.29	2,150,585
Liquid Fuel	427,388	1,076	459,869
Purchased Gas	127,707	2.30	293,726
	1,494,215	1.943	2,904,180

GVC-FAH

JRL (2)

JFF (STAT. REFG.)

FORM R-1211-E
Exhibit III
Sheet 1 of 2

DETAILED DISTRIBUTION OF CHEMICALS CONSUMED
ESTIMATED CRUDE REFINING OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.	Chemical	V P S Quantity	V P S Amount	F C C U Quantity	F C C U Amount	Poly Quantity	Poly Amount	Alkylation Quantity	Alkylation Amount
1	Acid, Alky Sulfuric-Tons							10,753	276,700
2	Anti-Foam DC-200 Lbs.	1,065	1,600						
3	Catalyst: -								
4	HDS-2 Hydrotreater - Lbs.								
5	Davison XZ-25 - Tons			1,561	487,556				
6	UOP #1 Poly-Lbs.					108,000	32,900		
7	UOP-R-11 Platinum - Lbs.								
8	Caustic Soda - Lbs.			179,400	6,400	179,400	6,400	92,400	3,400
9	Monoethanolamine - Lbs.					28,500	5,773		
10	Nalco-537-D	6,300	15,500						
11	Sodium Chloride - Lbs.					16,600	200	409,200	5,000
12	Hydrogen - Cu. Ft.								
	TOTAL		17,100		493,956		45,273		285,100

GVC-FAH

JRL (2)

[illegible] (STAT. REFG.)

WA-TEX009030

FORM R-1211-E
Exhibit III
Sheet 2 of 2

DETAILED DISTRIBUTION OF CHEMICALS CONSUMED
ESTIMATED CRUDE REFINING OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

LINE NO.	CHEMICAL	HYDROTREATING Quantity	HYDROTREATING Amount	RP&S Quantity	RP&S Amount	CAT. REFORMING Quantity	CAT. REFORMING Amount	TOTAL Amount
1	Acid, Alky Sulfuric - Tons							276,700
2	Anti-Foam DC-200-Lbs.							1,600
3	Catalyst: -							
4	HDS-2 Hydrotreater - Lbs.	2,400	2,200					2,200
5	Davison XZ-25 - Tons							487,556
6	UOP #1 Poly-Lbs.							32,900
7	UOP-R-11 Platinum Lbs.					14,600	54,794	54,794
8	Caustic Soda-Lbs.					92,300	3,300	19,500
9	Monoethanolamine-Lbs.							5,773
10	Nalco 537-D - Gals.							15,500
11	Sodium Chloride-Lbs.			572,700	6,900			12,100
12	Hydrogen-Cu. Ft.	15,000	200			127,600	1,900	2,100
13	TOTAL		2,400		6,900		59,994	910,723

GVC-FAH

JRL (2)

JFF (Stat. Refg.)

WA-TEX 009031

STEAM, POWER & WATER EXPENSES
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Line No.		FUEL Barrels	FUEL Amount	Purchased Power	Purchased Water	Other Cost	Total SP&W	Total Plant
1	VPS	71,600	93,400	20,800	22,600	69,200	206,000	1,832,320
2	Decarbonization	36,800	48,000	26,200	4,000	35,600	113,800	218,610
3	FCOU	216,600	282,500	45,000	39,300	209,500	576,300	1,037,711
4	Polymerization	75,900	99,000	18,100	15,400	73,400	205,900	483,573
5	Catalytic Reforming	15,700	20,500	12,100	9,500	15,200	57,300	750,104
6	Alkylation	96,900	126,400	4,200	12,300	93,700	236,600	656,800
7	Hydrotreating	7,500	9,800	41,400	12,200	7,300	70,700	760,510
8	Shipping Bulk	6,300	8,200	11,000	400	6,100	25,700	89,900
9	RP&S	69,000	90,000	38,700	1,500	66,800	197,000	567,200
10	BS&W	6,300	8,200	2,400	500	6,100	17,200	22,900
11	Waste Oil Recovery	8,800	11,500	0	500	8,500	20,500	26,200
12	TOTAL	611,400	797,500	219,900	118,200	591,400	1,727,000	6,445,828
13	S. P. & W.						(1,919,273)	0
14	Indirect Plant	52,544	68,595	69,315	3,731	50,632	192,273	1,311,863
15	GRAND TOTAL	663,944	866,095	289,215	121,931	642,032	0	7,757,691

STEAM, POWER & WATER EXPENSES
ESTIMATED OPERATING EXPENSES - YEAR 1969
PUGET SOUND PLANT

Distribution	Steam	Power	Water	Total
Fuel - Barrels	657,603		6,341	663,944
Fuel - Cost	857,824		8,271	866,095
Purch. - Power	36,368	190,295	62,552	289,215
Purch. - Water	19,251		102,680	121,931
Other Cost	579,529	3,100	59,403	642,032
TOTAL COST	1,492,972	193,395	232,906	1,919,273
Avg. Steam Cost/M Lbs.	$ .265266			
Avg. Power Cost/KW		$ .004716		
Avg. Water Cost/M Gals			$ .100160	
Purchased Utility Rates				
* Last Increment of Power/KW		$ .000000		
Last Increment of Water/M Gal.			$ .039000	

SP&W Fuel Summary		
Total SP&W Fuel from Exhibit II	Barrels	322,284
Plus FCCU Waste Heat Fuel Credit	Barrels	341,660
TOTAL SP&W FUEL TO DISTRIBUTE	Barrels	663,944

* PSP has a power contract based on a peak demand of 8000 KW. No additional payment is required unless demand exceeds 8000 KW, and if demand exceeds 8000 KW the monthly charge will be increased by $2.31 per KW in excess of 8000.

JVC-FAH
JRL (2)
JFF (STAT-REFG)

WA-TEX009033