

TABLE III. - BUILD-UP OF HYDROGENATION COSTS
(Based on values of Nov. 1945 and a Motor Fuel Production of 72.40 Tnes/hr)

	Coal- Steam Drying		Coal - Gas- fired drying		Paste Preparation		Paste Injection		Coal Stalls		H.O.L.D. Fugals	
	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr
01. Wages		<u>23.69</u>		<u>90.20</u>		<u>51.31</u>		<u>34.84</u>		<u>78.73</u>		<u>22.69</u>
Wages to IG workers. hrs.	12.73	15.42	48.40	60.96	27.42	33.42	22.92	27.32	51.33	61.87	12.30	14.52
" " foreign " "	4.37	3.50	11.66	11.74	6.10	6.13	0.24	0.20	0.02	0.02	3.86	3.55
Salaries		3.40		12.67		8.81		4.98		11.53		3.34
Social Insurance, etc.		1.37		4.83		2.95		2.34		5.31		1.28
02. Energy Costs		<u>96.73</u>		<u>236.98</u>		<u>78.47</u>		<u>97.86</u>		<u>236.13</u>		<u>17.26</u>
L.P. Water (Take M ³ Cr. M ³)	1.47	0.01										
H.P. Water			0.47	0.01	6.66	0.10	238.93	3.53	1895.48	27.98	6.67	0.10
Drinking Water	0.93	0.09	2.52	0.24								
Cooling Water (Take Cr. " "												
Condensate, Oil free	1/35.82	1/6.29	1/0.34	1/0.09					1/302.64	1/10.14		
" Oily					1/4.51	1/0.61	1/0.53	1/6.07	1/7.49	1/1.01	1/1.31	1/0.18
H.P. Steam Tne	3.35	10.15	0.57	1.73	12.65	38.31			12.83	38.85	6.31	19.11
Back Pressure Steam			1/0.35	1/0.69	1/3.89	1/7.78					1/3.11	1/623
L.P. Steam	37.88	85.24	0.93	2.08	2.19	4.93	1.29	2.91	5.39	12.13		
H.T. Electricity KWH	20.20	0.30	2760.69	41.71	1222.19	18.46	5971.41	90.20	1112.28	16.80	185.65	2.85
L.T. " Power	137.25	2.84	471.76	9.76	443.90	9.19	56.56	1.17	42.28	0.87	68.89	1.43
" " Light	8.81	0.18	32.28	0.67	11.20	0.23	5.87	0.12	2.04	0.04	2.33	0.05
Fuel Gas M ³			3385.25	30.06					19283.33	170.52		
Workshops Gas											0.43	0.01
Nitrogen 90 lbs/in ²	263.89	4.30	45.25	0.74	866.53	14.13					191.89	0.17
CO ₂ 7 lbs/in ²	3020.06	2.60	5686.36	4.90	1754.30	1.51			55.34	0.06		
Towns Gas												
Acetylene												
Compressed Air	90.65	0.31	1921.90	6.40					10.18	0.03		
Raw Brown Coal Kg			45062.94	139.46								
Bit. Coal and Coke												
03. Repair Costs		<u>27.86</u>		<u>95.86</u>		<u>173.79</u>		<u>37.92</u>		<u>346.81</u>		<u>38.22</u>
Foreign Wkr's, Wages. hrs.	0.63	1.04	6.88	8.96	0.45	0.55	0.07	0.07	0.59	0.64	0.92	1.83
" " Material												
& oncosts. hrs.		0.04		5.20		42.20		8.41		10.95		2.72
Stores Material		1.11		7.76		8.53		2.37		50.43		3.02
" " supplement		0.18		1.27		1.38		0.30		8.29		0.40
Workshops Wages. hrs.	8.73	10.73	24.38	29.79	38.12	46.09	8.25	10.09	82.82	99.98	9.74	11.63
Workshops Costs. s'ment		14.69		41.95		72.50		16.53		170.98		18.26
Repairs-Transport charges		0.07		0.93		2.54		0.07		5.54		0.27
04. Running Materials		<u>0.65</u>		<u>3.27</u>		<u>11.32</u>		<u>0.66</u>		<u>1.33</u>		<u>1.40</u>
Materials		0.59		2.86		11.00		0.57		1.31		1.24
Stores supplement		0.06		0.41		0.32		0.09		0.02		0.16
05. Traffic Costs		<u>0.02</u>		<u>12.05</u>		<u>41.84</u>		<u>0.10</u>		<u>1.21</u>		<u>0.78</u>
06. Works General Charges		<u>9.28</u>		<u>35.06</u>		<u>22.21</u>		<u>14.14</u>		<u>37.16</u>		<u>9.26</u>
Wage & Salary s'ment.		7.02		26.83		15.12		10.01		22.73		6.74
Fire Brigade		1.50		5.68		1.63		0.79		7.14		0.61
Post Office Costs		0.76		2.55		5.46		3.34		7.29		1.91
07. Capital Charges		<u>20.60</u>		<u>145.83</u>		<u>68.17</u>		<u>15.49</u>		<u>168.21</u>		<u>23.29</u>
Writing off		15.68		113.00		50.69		12.94		142.04		16.94
Interest		4.74		32.83		17.48		2.55		26.17		4.55
08. Taxes		<u>4.93</u>		<u>21.18</u>		<u>11.98</u>		<u>6.40</u>		<u>17.79</u>		<u>4.76</u>
09. Various Costs		<u>2.14</u>		<u>59.23</u>		<u>8.68</u>		<u>0.37</u>		<u>24.39</u>		<u>7.59</u>
Laboratory		2.02		20.71		7.70				23.84		7.17
Other Costs		0.12		0.68		0.98		0.37		0.55		0.42
Raw Material Stores				37.84								
Part cost Pipe Bridges												
" " Factory Wtr. System				43.76								
" " Tip Charges				4.43								
10. Credits												
Production: Total		185.90		747.85		467.67		207.79	-	931.76		125.25

1/ Designates credit against operating costs.

TABLE III. - BUILD-UP OF HYDROGENATION COSTS (Cont'd)
 (Based on values of Nov. 1943 and a Motor Fuel Production of 72.40 Tnes/hr)

	H.O.L.D. Kilns		Tar Fuels.		Liquid Phase Distillation		Gas Washing Plant		Circulation	
	Qty/hr	Rm/hr	Qty/hr	Rm/hr	Qty/hr	Rm/hr	Qty/hr	Rm/hr	Qty/hr	Rm/hr
01. Wages		<u>77.89</u>		<u>24.38</u>		<u>21.65</u>		<u>23.31</u>		<u>20.09</u>
Wages to IG workers. hrs.	43.75	51.53	13.34	15.94	12.35	14.83	12.60	14.88	11.69	13.93
" "foreign " "	14.83	15.31	3.19	3.28	0.80	0.92	1.03	0.99	1.92	1.83
Salaries		6.71		3.75		4.55	0.003	6.02	0.002	3.87
Social Insurance, etc.		4.34		1.41		1.35		1.42		1.26
02. Energy Costs		<u>388.75</u>		<u>23.24</u>		<u>230.08</u>		<u>23.84</u>		<u>132.72</u>
(Take M ³)										
L.P. Water (Cr. " "										
H.P. Water " "	566.20	8.36	23.79	0.35	540.62	7.98	13.67	0.20	11.93	0.18
Drinking Water " "	0.32	0.03			0.96	0.09				
Cooling Water (Take " "										
Condensate - Oil free " "										
" Oily " "	1/14.26	1/4.93	1/2.92	1/6.40	1/4.81	1/6.25	1/6.17	1/6.02	1/12.17	1/4.64
H.P. Steam Tne "	8.86	26.82	3.53	10.68	1.12	3.40	2.18	6.61	28.46	26.17
Back Pressure Steam " "							1/1.96	1/3.92		
L.P. Steam " "	25.79	58.03	3.59	8.08	8.64	19.44	0.20	0.45	1.05	2.37
H.T. Electricity KWH	180.34	2.72	3.21	0.07	1116.73	16.87	1330.07	20.08	2957.83	44.68
L.T. " Power " "	67.61	1.40	198.20	4.10	118.69	2.46	10.87	0.23	45.65	0.94
" " Light " "	0.71	0.01			0.47	0.01	2.02	0.04	2.63	0.02
Fuel Gas M ³	23431.90	208.10			19721.42	174.96				
Workshops Gas " "					6.90	0.16				
Nitrogen 90lbs/in ² " "					304.20	4.96	10.52	0.17		
CO ₂ 7 lbs/in ² " "	205.61	0.18	410.69	0.36						
Towns Gas " "										
Acetylene " "										
Compressed Air " "	9.25	0.03								
Raw Brown Coal Kg.										
Bit. Coal & Coke " "										
03. Repair Costs		<u>143.23</u>		<u>21.60</u>		<u>62.80</u>		<u>50.94</u>		<u>55.90</u>
Foreign workers wages, hrs.	0.73	1.55			2.32	3.80	0.20	0.37	0.01	0.01
" " material										
& oncosts.		6.80		0.56		6.00		3.04		5.02
Stores Material		14.12		1.71		1.44		5.32		6.43
" " supplement		2.30		0.27		0.17		0.85		1.06
Workshops wages. hrs.	38.36	45.51	5.76	7.08	16.50	19.68	13.08	15.91	13.56	16.62
" costs, supplement		71.22		11.62		30.94		25.90		26.58
Repairs - Transport charges		1.93		0.36		0.77		0.15		0.18
04. Running Materials		<u>4.46</u>		<u>0.85</u>		<u>1.17</u>		<u>0.85</u>		<u>3.45</u>
Materials		3.96		0.76		1.05		0.74		2.97
Stores supplement		0.50		0.09		0.12		0.11		0.48
05. Traffic Costs		<u>92.50</u>		<u>0.33</u>		<u>0.04</u>		<u>0.04</u>		<u>0.08</u>
06. Works General Charges		<u>36.01</u>		<u>0.08</u>		<u>10.16</u>		<u>10.02</u>		<u>9.94</u>
Wage & Salary S'ment.		22.91		7.21		6.25		6.70		6.10
Fire Brigade		2.65		0.14		0.64		2.09		1.81
Post Office Costs		10.45		1.73		2.27		1.23		2.03
07. Capital Charges		<u>115.99</u>		<u>3.52</u>		<u>43.21</u>		<u>57.78</u>		<u>43.44</u>
Writing off		94.12		2.64		42.10		50.15		32.67
Interest		21.87		0.88		6.11		7.63		12.77
08. Taxes		<u>16.04</u>		<u>4.55</u>		<u>4.97</u>		<u>5.46</u>		<u>5.93</u>
09. Various Costs		<u>10.84</u>		<u>26.10</u>		<u>9.02</u>		<u>1.33</u>		<u>0.28</u>
Laboratory		3.69		3.29		0.91		1.31		
Other Costs		7.15		0.67		0.10		0.02		0.28
Raw Material Stores				22.14		8.01				
Part Cost Pipe Bridges										
" " Factory Wtr. System										
" " Tip Charges										
10. Credits										
Production: Total:		801.51		113.70		388.10		173.57		274.66

1/ Designates credit against operating costs.

TABLE III. - BUILD-UP OF HYDROGENATION COSTS (Cont'd)
 (Based on values of Nov. 1943 and a Motor Fuel Production of 72.40 Tnes/hr)

	Liquid Phase Rich Gas Purification		Rich Gas Fractionation		Petrol Testing		Liquid Phase Intermediate Storage		Vapour Phase Intermediate Storage	
	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr
01. Wages		<u>20.97</u>		<u>40.11</u>		<u>0.76</u>		<u>16.0</u>		<u>3.39</u>
Wages to IG workers, hrs.	8.80	9.62	24.47	29.34			10.15	12.01	2.18	2.49
" "foreign " "	5.54	4.08	0.53	0.44						
Salaries	0.00 ³	6.28	0.00 ⁴	7.70		0.72	0.001	2.93		0.69
Social Insurance, etc.		0.99		2.63		0.04		1.06		0.21
02. Energy Costs		<u>152.77</u>		<u>294.30</u>		<u>0.15</u>		<u>73.26</u>		<u>19.34</u>
Low Pressure Water (Take M ³ Cr. ")	735.00	5.35								
High Pressure " " "	1/19.76	1/0.09	3623.55	53.50	5.49	0.08	14.35	0.21	1.42	0.02
Drinking Water " " "		0.26								
Cooling Water (Take " Cr. ")										
Condensate - Oil free " "										
" - Oily " "	1/1.75	1/0.24	1/17.49	1/2.36	1/0.01		1/9.41	1/1.27	1/2.61	1/0.35
High Pressure Steam " "	42.74	130.87	99.78	302.17			14.46	43.79	5.44	16.47
Back " " "	1/36.94	1/73.87	1/47.04	1/94.08			1/0.57	1/1.13		
Low " " "		36.68	4.48	10.05	0.03	0.06	8.92	20.06	0.89	1.99
H.T. Electricity KWH			857.44	16.10			219.20	3.31		
L.T. " Power	357.77	7.41	419.15	8.67	0.30	0.01	335.51	6.94	57.05	1.19
" " Light	1.16	0.02	4.21	0.09	0.04		0.35	0.01		
Fuel Gas M ³										
Workshops Gas " "										
Nitrogen 90 lbs/in ² " "	5.08	0.08					82.42	1.34		
CO ₂ 7 lbs/in ² " "	57.47	0.05								
Towns Gas " "										
Acetylene " "										
Compressed Air " "	6.94	0.02	62.19	0.20					6.87	0.02
Raw Brown Coal Kg										
Bit. Coal & Coke "										
03. Repair Costs		<u>37.63</u>		<u>42.51</u>		<u>3.31</u>		<u>23.40</u>		<u>6.64</u>
Foreign Workers wages, hrs.	0.30	0.42	0.31	0.31			0.26	0.26		
" " material								0		
& oncosts		0.76		0.35		0.01		2.84		
Stores Material		3.46		2.87		0.01		1/0.46		0.28
" " supplement		0.74		0.76				1/0.08		0.05
Workshops Wages, hrs.	10.53	12.47	12.04	14.40	1.03	1.27	6.91	8.19	2.00	2.49
" Costs supplement		19.76		23.26		2.02		12.54		3.81
Repairs - Transport charges		0.02		0.36				0.11		0.01
04. Running Materials		<u>1.04</u>		<u>1.46</u>		<u>1.00</u>		<u>0.39</u>		<u>0.01</u>
Materials		1.03		1.45		1.00		0.33		0.01
Stores supplement		0.01		0.01				0.06		
05. Traffic Costs		<u>0.61</u>		<u>2.98</u>		<u>0.04</u>		<u>0.12</u>		
06. Works General Charges		<u>8.62</u>		<u>16.59</u>		<u>0.23</u>		<u>6.66</u>		<u>1.46</u>
Wage & Salary stment		7.41		13.14		0.20		4.60		0.90
Fire Brigade		1.00		2.34		0.02		0.87		0.48
Post Office Costs		0.21		1.11		0.01		1.19		
07. Capital Charges		<u>42.34</u>		<u>101.92</u>		<u>0.65</u>		<u>20.88</u>		<u>4.67</u>
Writing off		32.59		78.30		0.49		17.51		3.92
Interest		9.75		23.62		0.14		3.37		0.75
08. Taxes		<u>4.71</u>		<u>9.88</u>		<u>0.17</u>		<u>3.36</u>		<u>0.73</u>
09. Various Costs		<u>7.82</u>		<u>7.10</u>		<u>1/0.02</u>		<u>1.70</u>		<u>0.30</u>
Laboratory		7.25		6.22				1.37		0.88
Other Costs		0.16		0.79		1/0.02		0.33		
Raw Material Stores		0.41		0.09						
Part cost Pipe-Bridges		3.89						6.46		4.31
" " Factory Wts. System		3.82								
" " Tip charges										
10. Credits										
Transferred to 5050 Catalyst Plant H.S. gas section				1/2.47						
Production: Total:		286.22		524.18		6.27		152.23		41.43

1/ Designates credit against operating costs.

TABLE III. - BUILD-UP OF HYDROGENATION COSTS (Cont'd)
 (Based on values of Nov. 1943 and a Motor Fuel Production of 72.40 Tnes/hr)

	Hydrogenation Drain Wtr. Treatment		Hydrogenation Phenol Separation		Hydrogenation Phenol Washing		Total	
	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr	Qty/hr	RM/hr
01. <u>Wages</u>		<u>3.39</u>		<u>2.02</u>		<u>11.28</u>		<u>677.62</u>
Wages to IG workers, hrs.	0.21	0.20	1.11	1.15	6.00	7.23	391.21	470.54
" "foreign " "	1.61	1.55					56.30	54.11
Salaries		1.47		0.74		3.33		111.98
Social Insurance, etc.		0.09		0.13		0.70		40.99
02. <u>Energy Costs</u>		<u>3.54</u>		<u>6.15</u>		<u>19.20</u>		<u>2394.99</u>
Low Pressure Water (Take M ³ Cr. " "					356.64	2.60	1093.11	7.96
High Pressure Water " "					1/351.33	1/1.60	1/371.09	1/1.69
Drinking Water " "							9522.11	140.59
Cooling Water (Take " " Cr. " "			2.66	0.10	0.15	0.01	9.07	0.85
Condensate - Oil free " "					1/3.82	1/1.11	1/596.41	1/19.99
" - Oily " "	1/0.23	1/0.03					1/39.98	1/10.49
High Pressure Steam Tne " "	0.37	1.13			5.58	16.90	280.15	349.77
Back " " " "							1/112.93	1/225.83
Low " " " "	0.41	0.09	0.58	1.30	0.14	0.03	150.54	337.19
H.T. Electricity KWH " "			53.11	0.80			15460.47	317.86
L.T. " Power " "	113.67	2.35	0.46	0.01	75.10	1.55	3667.56	75.90
" " Light " "			1.17	0.02	0.95	0.02	93.74	1.92
Fuel Gas M ³ " "							83665.04	741.80
Workshops Gas " "							65.72	1.54
Nitrogen 90 lbs/in ² " "					43.50	0.71	2633.62	26.63
CO ₂ 7 lbs/in ² " "			3240.38	2.79	10.53	0.01	14739.06	12.72
Towns Gas " "			16.48	0.47	0.27	0.01	16.75	0.40
Acetylene " "								
Compressed Air " "			196.89	0.66	22.21	0.07	2031.04	9.61
Raw Brown Coal Kg " "							45062.94	139.46
Bit. Coal & Coke " "								
03. <u>Repair Costs</u>		<u>7.18</u>		<u>1.31</u>		<u>12.42</u>		<u>1496.85</u>
Foreign Workers Wages, hrs.	0.17	0.18					14.73	20.82
" " material								
& oncosts		0.66		0.08		0.53		116.26
Stores material		0.95		0.06		0.98		103.19
" " supplement		0.15		0.01		0.15		30.60
Workshops Wages hrs.	1.62	2.00	0.41	0.49	3.52	4.37	357.24	430.79
" Costs, supplement		3.04		0.67		6.30		698.31
Repairs - Transport Charges						0.09		16.00
04. <u>Running Materials</u>		<u>0.25</u>		<u>0.70</u>		<u>16.04</u>		<u>57.63</u>
Materials		0.22		0.68		15.96		54.19
Stores supplement		0.03		0.02		0.08		3.44
05. <u>Traffic Costs</u>						<u>0.24</u>		<u>154.53</u>
06. <u>Works General Charges</u>		<u>1.34</u>		<u>0.77</u>		<u>3.42</u>		<u>297.93</u>
Wage & Salary supplement		1.03		0.77		3.20		200.68
Fire Brigade		0.27		0.20		1.19		42.97
Post Office Costs		0.04				0.03		54.24
07. <u>Capital Charges</u>		<u>10.25</u>		<u>4.63</u>		<u>5.20</u>		<u>1139.34</u>
Writing off		7.94		3.83		4.00		921.10
Interest		2.31		0.80		1.12		218.24
08. <u>Taxes</u>		<u>1.01</u>		<u>0.48</u>		<u>2.21</u>		<u>154.04</u>
09. <u>Various Costs</u>		<u>7.72</u>				<u>0.39</u>		<u>220.86</u>
Laboratory		7.36				0.04		134.24
Other Costs		0.34						14.87
Raw Material Stores						0.35		79.75
Part cost Pipe-Bridges								16.66
" " Factory Wtr. System		26.26						73.96
" " Tip charges								4.43
10. <u>Credits</u>								
			For H ₂ S make Tne Cal. 1/7.04		For Creosote Oil "S" Kg 1/49.79			1/59.31
Production: Total		60.96		9.02		20.61		6637.43

1/ Designates credit against operating costs.