

RESP SECT ACCOUNT ACCOUNT TITLE DEPT. 400 CHEMICALS & PIGMENTS PLANT 1750 CHAMBERS WORKS -JACKSON LAB-SPECIALTY CHEMICALS

EXPENDITURES	CURR. MO.	YR TO DATE	SINCE AUTH	AMOUNT AUTHORIZED	PERCENT EXPENDED	DATE
55809 376896 SOE CRSE		300	300	300	100	01/83 02/83

TOTAL ESD 300 300

63221 510601 *TORVEX* EMISSION ABATE CAT ASSIS 1 668 30 005 30 000 100 01/82 06/83

TOTAL ERDD 1 668 30 005 30 000

TOTAL PLANT 1750 1 968 30 305 30 300

TOTAL OPEN ACCOUNTS

RESP SECT	ACCOUNT	ACCOUNT TITLE	PLANT	CURR. MO.	CHAMBERS WORKS	YR TO DATE	SINCE AUTH	AMOUNT AUTHORIZED	PERCENT EXPENDED	DATE CLOSED
DEPT. 400	CHEMICALS & PIGMENTS		1751							
55708	377454	VAX SOFTWARE TO SUPPORT MSI TERMINAL		1	324	6	198	6	198	03/83
		TOTAL ESD		1	324	6	198	6	198	
		TOTAL PLANT 1751		1	324	6	198	6	198	
		TOTAL OPEN ACCOUNTS		1	324	6	198	6	198	

RESP SECT ACCOUNT ACCOUNT TITLE CURR. MO. YR TO DATE SINCE AUTH AMOUNT PERCENT DATE AUTH CLOSED

DEPT. 400		CHEMICALS & PIGMENTS		PLANT 1755		CHAMBERS WORKS		NU-PRODUCTION			
33220	111018	KINNEAR-RELOC DRL-6 MFG FACS	29 911	130 000		130 000	100	04/82	05/83		
33220	113482	BLR BURNER CONT-DEEPWTR STA-DUNAGAN	61 530	255 145	581 167	675 000	86	03/81			
33220	443501	PORTER - ACE-RETURN TO COAL LIATION	6 088	49 272	641 136	800 000	80	05/81			
33220	445330	GOGGIN RENOV ELEC DISTRIB SYS		536	1 936	6 000	32	08/82	05/83		
33220	445426	COAL CONV STUDIES-ABAN COSTS		64 494	896 806	1 440 000	62	09/82	01/83		
33220	445526	DES ASSIS-WAREHSE INSPIC		1 150	1 414	2 000	71	10/82	01/83		
33220	445642	FRENCH-F-11 MOD CH WKS PIPE SPEC	1 272	1 272	1 272	25 000	05	11/82			
33220	445707	COAL HOLG START-UP & TRNING-MGINNIS				56 000		12/82			
33220	445708	PORTER/A.C.E. ENGRG ASSIS	13 169	36 747	36 747	92 000	40	12/82			
33220	445709	PORTER/DEEPWATER STA SERV	2 544	3 490	3 490	63 000	06	12/82			
33220	446120	MC GINNIS-DEEPWTR FIRE PROT SYS				15 000		02/83			
33220 S	446321	DIETZ-MFGR HYDROGEN/CO		4 320	4 320	5 000	86	04/83			
33411	442015	MCGRW - PRELIM DESIGN - PGS	5 112	6 328	7 400	25 000	30	05/80			
33411	443647	DAZIM - PRELIM DESIGN - AROMATICS	-1 248		7 317	25 000	29	07/81			
33411	443692	DAZIM - PRELIM DESIGN - SPEC CHEM				25 000		07/81			
33411	446134	TURK-RECOMMEND WH PROD SEWER				25 000		07/81			
33411	446482	NELSON-DES ASSIS PRES REL DEV	5 755	5 755	5 755	25 000	23	05/83			
33413	443672	MAJOR - PRELIM DESIGN-"FREON"	9 008	9 869	10 650	25 000	43	07/81			
33220	445796	1983-DIETZ-MISC NONCAP SERV	2 720	6 295	6 295	20 000	31	12/82			
33411	445756	1983-MAJOR-DES GEN CONS-FREON*		216	216	1 000	22	11/82			
33411	445757	1983-DAZIM-DES GEN CONS SPEC CHEM	227	1 256	1 256	3 000	42	11/82			
33411	445758	1983-DAZIM-DES GEN CONS AROMATICS	346	2 967	2 967	5 000	59	11/82			
33411	445759	1983 MC GRW-DES GEN CONS WTP				5 000		11/82			
TOTAL DESIGN COMMERCIAL											
			106 523	480 023	2 341 156	3 469 000					
51144	373140	DUNAGAN-ENRGY MGMT SYS MDL CMPT CST		30	733	5 000	15	06/82			
51216	376647	CONS ASST TO WSTWTR DISP SER-EATH		3 856	3 856	5 000	77	01/83			
51304	368116	ALKANOL 1009C EXPANSION-TONG		320	1 204	4 000	30	08/81			
51333	378403	DAZIM-CHEM ENG TRNING				4 000		05/83			
52141	361928	CHIESA - DECOLORIZING FURNACE		380	1 059	1 200	89	02/82			
52157	377150	DUNGN - INCINERATOR HT REVRV EVAL		6 820	9 703	10 000	97	07/80	04/83		
52157	377150	DE GRAFF-DIAMINES-DOWTHERM SYS	884	4 993	4 993	7 500	67	02/83			
52157	377781	CHLORINE HANDLING SYS - MCCAVE	438	5 082	5 082	13 500	37	03/83			
52419	363152	MCCAVE - ELECT CONSULT & TEST	380	389	4 661	5 000	93	08/80			
52422	376383	TUTTLE-SCHED PRGM-AROMATICS	625	5 841	5 841	10 000	58	11/82			
52445	362171	VLFBRT - ELECT MTR ACCRY VERIF		2 104	6 100	6 100	100	08/80	01/83		
52449	374046	LIGHTNR - CONRT PM PRGM TO PY-15		-1 257	8 985	9 000	100	08/82	03/83		
52520	378179	LIPPINE-CHEM WASTE INCIN FR-1	348	626	626	3 500	18	04/83			
52525	374420	WFL-CATHODIC PROTECT OF SHEET PILING		798	798	3 000	27	09/82			
52538	375298	MCCAVE-LINING OF WTP NO 1 FILTER		134	1 334	1 350	99	11/82	04/83		
52647	377732	HEATH-AERAT AIR PIP SUPP ANAL		8 046	8 046	8 000	101	03/83			
54327	374373	FAULT TREE-2 ETHYL HEXYL NITRATE MFR	1 457	3 035	14 587	15 000	97	10/82	02/83		
54463	373962	HAFF - VYDAX 100		699	917	1 000	92	07/83	03/83		
54463	376513	LEAD		1 000	1 000	1 000	100	01/83	02/83		
54463	377487	VYDAX 1000		930	930	1 000	93	03/83			
54633	377856	CURRY-RUN TIME PAYMENT FOR WATERO		3 000	3 000	3 000	100	03/83			
55719	376205	PW-GAL (CH WKS) VAX COMPT COSTS	263	2 232	2 232	2 000	112	12/82			
55719	376850	HEATH-CW WTP VAX COMPT COSTS-PBW	1 358	11 134	11 134	10 000	111	01/83			
55719	376877	VAX COMPT COSTS-(B2)	80	699	699	2 000	32	01/83			

TIME 21:43:06

DATE 83/06/23

REPORT DC5572 FOR 83/06 ENGR DEPT STUDY COST AND SERVICE CHARGES

RESP SECT	ACCOUNT	ACCOUNT TITLE	CURR. NO.	EXPENDITURES YR TO DATE	SINCE AUTH	AMOUNT AUTHORIZED	PERCENT EXPENDED	D A T E AUTH CLOSED
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DEPT. 400 CHEMICALS & PIGMENTS PLANT 1755 CHAMBERS WORKS NJ-PRODUCTION

55812	377643	LIGHTNR-PAIRED COMPARISONS-CW		875	875	1 000	88	03/83
52100	375708	1983-DUNAGN-GEN ENRG CONSRV (JNH)	365	2 482	2 482	3 000	83	11/82
52100	375720	1983-DUNAGN-DOC MAJOR EQUIP-JNH	1 062	4 127	4 127	10 000	41	11/82
52141	375716	1983-MCCAVE-GEN PWR CONS-JNH	1 188	10 483	10 483	10 000	105	12/82
52157	375929	1983-MCCAVE DOC OPERATIONS	3 211	14 270	14 270	25 000	57	12/82
52419	375719	1983-BRNSCM-ELECT TEST+CONS-JNH	208	1 602	1 602	8 000	27	12/82
52422	375711	1983-O'RRKE-MAINT ASST-JNH	385	2 654	2 654	10 000	27	11/82
52453	375707	1983-O'RRKE-LUB ASST-MECH (JNH)		607	607	2 000	30	11/82
52459	375721	1983-METRE-INVENTORY CONTROL-JNH	70	468	468	5 000	09	11/82
52459	375726	1983-LIGHTNR-CW SPR PRIS-JNH	48	1 266	1 266	5 000	21	11/82
52502	375714	1983-MCCAVE-MAT'LS ENRG ASST-JNH				5 000		12/82
52502	375730	1983-FRENCH-MATLS CONS-JNH		2 125	2 125	5 000	43	11/82
54306	375710	1983-O'RRKE-HV/ENVIR CONS MECH (JNH)				4 000		11/82
54313	375504	JNH-1983-ELLIOTT-ENVIRMTL AIR		2 091	2 091	5 000	42	11/82
54452	375727	1983-KOCH-HAZ LAB STDY-SPEC CHEM-JNH	904	2 793	2 793	4 000	70	11/82
54452 S	376254	1983-BULK-HAZ LAB STDY-ARMTCS-(JNH)	973	3 683	3 683	5 000	74	12/82
54604	375713	1983-MCCAVE-WTR CONS DOC-JNH	690	4 255	4 255	10 000	43	12/82
54604	375715	1983-MC CAVE-WTR CONS CW-JNH	160	1 403	1 403	5 000	28	12/82
54606	375485	JNH-1983-PAGANO-SOLID WSTE CONS LT	520	2 205	2 205	5 000	44	11/82
54611	375709	1983-ROMITO-ENVIR AIR/NOISE CONS MECH		531	531	4 000	13	11/82
54628	375502	JNH-1983-PAGANO-WSTWTR CONS LT	-2 158			2 000		11/82
54628	375503	JNH-1983-PAGANO-GEOLOGICAL CONS LT				3 000		11/82
57121	375605	1983 ESD FLD ASSIGN-G O TOWNSEND-BK	9 054	9 054	9 054	20 000	45	12/82 04/83
57121	375712	1983-DWSBRY-GEN CONS *FREON ESD-JNH	1 432	1 432	1 432	5 000	29	11/82
57121	375717	1983-BRNSCM-GEN CONS-E/I-JNH				3 000		12/82
57121	375718	1983-BRNSCM-IDA TIME-SHR INST-JNH	28	1 005	1 005	3 000	34	12/82
57121	375722	1983-HEALTH-GEN CONS-WTP-JNH	300	760	760	2 000	38	11/82
57121	375723	1983-MCGRAW-REPRO CHARGES-JNH	1 058	2 505	2 505	4 000	63	11/82
57121	375724	1983-DAZIM-IDA TIME-SHR DES - JNH	572	1 813	1 813	2 000	91	11/82
57121 S	375725	1983-O'RRKE-GEN CONS-MECH TECH-JNH	2 097	2 097	2 097	5 000	42	11/82
57121	375728	1983-G CLARK-GEN CONS-ARMTCS-JNH	556	556	556	10 000	06	11/82
57121	375729	1983-G CLARK-GEN CONS-SPEC CHEM-JNH		556	556	6 000	09	11/82
57121	375731	1983-ROMITO-GEN CONS-CRFTS-INH				2 000		11/82
57121	376829	BK-1983 ESD FLD ASSIGN -ME DEMSBURY	5 837	36 084	36 084	85 000	42	01/83

TOTAL ESD 21 234 174 641 211 230 413 150

91800	212198	I-MD796595MF (GAG)						08/82 02/83
91800	212395	I-MD 794334M (JAF)	762	1 370	1 370			11/82 02/83
91800	212806	I-LOWD810348MF (JAF)	1 226	3 062	3 062			04/83

TOTAL CONSTRUCTION

1 988 4 422

A3100 194119 IMCS-CHAM WKS

1 050 7 117 19 206

TOTAL SERVICE CHARGES

1 080 7 117 19 206

91800 212347 I-1983 CONDRA QUAL ASSUR ENGRG SERV

25 12/82

TOTAL CONSTRUCTION

152 4 302 4 302 17 000

TOTAL PLANT 1755

128 959 668 071 2 580 316 3 899 150

TOTAL OPEN ACCOUNTS

128 959 547 353 1 493 058 2 256 700

RESP SECT ACCOUNT ACCOUNT TITLE CURR. MO. YR TO DATE SINCE AUTH AUTHORIZED PERCENT EXPENDED AUTH CLOSED DATE

DEPT. 400 CHEMICALS & PIGMENTS PLANT 1756 CHAMBERS WORKS & JACKSON LAB-R&D									
33220	119455	REPL WING 4 A/C SUPPLY UNIT	384	16	834	40	000	42	10/81 02/83
33220	446398	ETHMOZING MANUFACTURING	8	688	8	688	20	000	04/83
33320	445392	MCGRAN - OFFICE/LAB MODIFY J L	291	1	524	18	044	50	000 08/82
33320	445635	MC GRAY LAB FAC RELOC STY	-1	100	6	496	9	000	72 11/82 01/83
33411	446239	PLT ACID PLT DUCTWORK&EXP JOINTS	265	565	565	5	000	11	03/83
33411	446240	INSUL SPEC-SULFUR TANK&CONC	265	1	547	3	000	52	03/83
TOTAL DESIGN COMMERCIAL									
			821	11	808	52	174	127	000
51113	378526	HYDROGEN PEROXIDE - NEW ROUTES				15	000		06/83
51139	378527	ENHANCE PEROXIDE MODELS	380		380	2	000	19	06/83
51218	374023	2EHN STORAGE TANK VENTING	1	680	3	609	3	500	103 09/82 02/83
51218	375308	ONAN VENT SYS CHECKS		960	2	894	3	000	96 11/82 01/83
51220	367411	*ZEPEL* FLUOROMONOMER DISTILLATION	1	009	2	877	6	000	45 08/81
51223	373653	MENT/DEMT STILL OPTIMIZATION		60	5	198	6	000	87 07/82 05/83
51223	375305	VIBRATION IN GLASS PIPE LIGHT WELLS		643	1	500	1	500	100 11/82 02/83
51330	378502	S02 OXIDATION-KINETIC MODEL MODIF				7	600		08/83
51340	373645	*KROLOR* PATENT LITIGATION	900	8	085	17	073	35	000 49 07/82
52100	367899	JACKSON CAB WING 4 ADDITION HVAC STY			1	391	3	000	46 07/81
52141	375304	PHR TRING SEMINARS				85	550	15	11/82
52623	375137	IMPROV MATLS - H2SO4 PLANTS	159	4	408	4	408	5	000 88 11/82
52623	375136	BAGGING FACIL FOR MPD FLAKE		910	1	100	1	100	100 11/82 05/83
52638	378132	DETERIORATION OF FLAKE SIZE	- 400	600	600	600	600	100	100 04/83 05/83
52640	369098	AERATION BLOWER DERATING			980	5	000	20	10/81
54305	374912	PNBA FAULT TREE REV		- 8	1	200	1	200	100 11/82 01/83
54321	377181	P/ONAN CAMPAIGNING SAFETY STDY		856	556	2	000	28	02/83
54420	378033	CALIB CALIBRATIONS	97	97	97	1	000	97	100 05/83
54434	377339	CL10 COLUMN SCAN		1	000	1	000	100	03/83 04/83
54447	378019	PNBA VENT GAS PROPOSAL	221	803	803	800	1	000	100 04/83
54452	374351	EHA-EHN		- 732	86	1	000	09	11/82 01/83
54452	375026	EHN INERTS		140	140	1	000	14	11/82 01/83
54452	375664	EHN SYNTHESIS		- 968		968			12/82 01/83
54452	375666	OFF GAS HAZARDS		- 782		968			12/82 01/83
54452	375671	CO-ND SENSITIVITY		- 968		968			12/82 01/83
54452	375673	NITRATE INERTING		- 684		684			12/82 01/83
54452	375674	EHN-MIXING-IGNITION		- 988		988			12/82 01/83
54452	376253	2-ETHYL HEXYL NITRATE VAPOR HAZARDS		10	298	10	000	103	12/82 02/83
54452	376522	PNA-ONE SHOT		440	440	440	440	100	01/82 03/83
54452	377318	FIBER FINISH		806	806	808	100	100	02/83 03/83
54452	377495	ION-EHN		993	993	1	000	99	03/83 05/83
54452	378008	ION-IMPORT		996	996	1	000	100	04/83 05/83
54452	378007	ION-LIMITS		968	968	968	100	100	04/83 05/83
54452	378320	EHN-VAPOR-AIR		970	970	970	100	100	05/83 06/83
54452	378321	VAPOR CONC		970	970	970	100	100	05/83 06/83
54452	378337	ZEPEL		498	498	500	99	99	05/83 06/83
54452	378358	N8-PICNIC THERMAL	11	1	000	1	000	100	06/83 06/83
54452	378372	N8-PIMPACT	1	000	1	000	1	000	100 06/83 06/83
54452	378376	EHNUEL	1	000	1	000	1	000	100 06/83
54452	378377	TYZOR	972	972	972	1	000	97	06/83

EXPENDITURES
CURR. MO. YR TO DATE SINCE AUTH

DEPT. 400 CHEMICALS & PIGMENTS PLANT 1756 CHAMBERS WORKS & JACKSON LAB-R&D

RESP SECT	ACCOUNT	ACCOUNT TITLE	AMOUNT AUTHORIZED	PERCENT EXPENDED	DATE AUTH CLOSED
54452	378378	TV-FRUCTOSE	1 000	100	06/83
54452	378380	MONO TE & FRUCTOSE	1 000	100	06/83
54452	378664	MONO TE	1 000	100	06/83
54463	373233	EVANS - VYDAX GSR	262	72	06/82
54463	374358	ENGLISH CHROMATE	49	67	11/82
54463	375668	NEWARK CHROMATE	49	100	12/82
54463	376528	NAHAN W	538	54	01/83
54463	377308	CENTRIFUGE PAINT	655	66	02/83
54463	377489	LEAD CHROMATE-HIGGINS	946	95	03/83
54610	367900	AIRBORNE HEXAFLUORACETONE-BLDG 1043	264	84	08/81
54619	378459	ALTN WSTWTR TRTMT	3 158	16	05/83
55110	377108	PLANSCHED FOR COMPT AIDED LEADING	4 496	90	02/83
55716 S	374077	PROCESS MGMT FOR SULFURIC ACID	829	21	09/82
55716	375138	HAND-HELD DATA TERMINALS	347	12	11/82
55719	374453	SYS DEVELOPMENT ON VAX	33	63	10/82
55719	376947	CH WKS MINI-LAB VAX COMPT COSTS	5 041	101	01/83
55747	377452	CLIP/VANTAGE HAND-HELD COMPT	10 000	100	03/83
55747	377453	CLIP/VANTAGE MULTIUSER SYS	10 643	106	03/83
55747	378550	HAND-HELD COMPT INTERFACE	20 000	106	06/83
55747	378581	JACKSON LAB VANTAGE SYS	30 000	106	06/83
55817	378185	STATISTICAL CONS FOR JACKSON LAB	2 296	98	05/83
55827	369357	GEN STAT ASSIST FOR JACKSON	295	101	10/81
55833	378056	PQM CRSE	350	100	04/83
56321	377109	1983 PROCESS SAFETY CONS	11 043	25	05/83
55701	375646	1983 COMPT HARDWARE CONS	695	350	06/83
55701	376172	1983 SYS SOFTWARE CONS	2 547	5	02/83
55719 S	378480	1983 COMPT CHRGS-PCCVX2	1 283	26	11/83
55719	378582	1983 PCCVX COMPT CHARGES	777	16	11/82
57121 S	375506	1983 ESD GEN CONS - AROMATICS	30	3	06/83
57121	375507	1983 ESD GEN CONS - SPEC CHEM	22	07	11/82
57121	375508	1983 ESD GEN CONS	360	2	11/82
57121	375647	1983 ESD GEN CONS - SATC	5	5	10/82
57121	376129	1983 ESD FLD ASSIGN-RW SCHNELL	570	06	11/82
57121	376130	1983 ESD FLD ASSIGN - CV LESTER	18 681	27	12/82
57121	376131	1983 ESD FLD ASSIGN-EJ BAUER	30 157	68	12/82
57121	376132	1983 ESD FLD ASSIGN-MI ARRENDALE	28 603	44	12/82
57121	376421	1983 ESD FLD ASSIGN-E J SIEGARTH	25 284	60	12/82
57121	376708	1983 ESD FLD ASSIGN - HS PATEL	34 947	85	01/83
57121	376709	1983 ESD FLD ASSIGN-J H MCMINN	19 088	60	01/83
			22 463	33	01/83
		TOTAL ESD	42 853	275	673

63211 511616 ELECTROCHEM SYN OF PBQ-ENGRG SUPPORT

63221 510881 AROMATIC AMINES CATALYST DEV

TOTAL ERD

TOTAL PLANT 1756

TOTAL OPEN ACCOUNTS