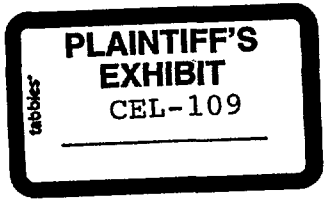
PLANT PROCESS DESCRIPTIONS



PLANT - 043 BAY CITY PLANT

UNIT - 0001 2 ETHYLHEXANOL/BUTANOL
START DATE - 02/22/62
END DATE - 05/03/62
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 038

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00441	FERROUS SULFATE	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00925	PHOSPHORIC ACID, 70-85%	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN INHAL	.00000	
01330	ACETALDOL	LOW	SKIN	.00000	
01348	HCCG BUTYRALDEHYDE	MED	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01519	SODIUM TRIPOLYPHOSPHATE	LOW	SKIN	.00000	
01534	TETRASODIUM ETHYLENEDIAMINETETRAACETIC ACID	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	HIGH	SKIN INHAL	.00000	
01818	BETZ 403	LOW	SKIN	.00000	
01827	BUTYRALDOL	LOW	SKIN INHAL	.00000	
01828	2-ETHYLHEXANAL	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01840	SODIUM BUTYRATE	LOW	SKIN	.00000	
01849	NITROBENZENE 99%	MED	SKIN INHAL	.00000	
01857	2-ETHYLBUTYRALDEHYDE, 92+%	LOW	SKIN INHAL	.00000	
01865	2,4-HEXADIENEAL	LOW	SKIN INHAL	.00000	
01866	2-VINYL CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01867	CROTONALDEHYDE DIMER	LOW	SKIN INHAL	.00000	
01868	CROTONALDEHYDE RESIN	LOW	SKIN INHAL	.00000	
01869	2-ETHYLHEXYL ACID PHOSPHATE	LOW	SKIN	.00000	
01870	2-ETHYL-1-BUTANOL, 98%	LOW	SKIN INHAL	.00000	
20655	CALCIUM HYDROXIDE	HIGH	SKIN INHAL	.00000	
20672	HCCG METHANOL	HIGH	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0001 2 ETHYLHEXANOL/BUTANOL
START DATE - 05/04/62
END DATE - 11/01/64
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 039

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00441	FERROUS SULFATE	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00925	PHOSPHORIC ACID, 70-85%	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN INHAL	.00000	
01330	ACETALDOL	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01519	SODIUM TRIPOLYPHOSPHATE	LOW	SKIN	.00000	
01534	TETRASODIUM ETHYLENEDIAMINETETRAACETIC ACID	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	HIGH	SKIN INHAL	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01818	BETZ 403	LOW	SKIN	.00000	
01827	BUTYRALDOL	LOW	SKIN INHAL	.00000	
01828	2-ETHYLHEXANAL	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01840	SODIUM BUTYRATE	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
01849	NITROBENZENE 99%	MED	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01857	2-ETHYLBUTYRALDEHYDE, 92+%	LOW	SKIN INHAL	.00000
01865	2,4-HEXADIENEAL	LOW	SKIN INHAL	.00000
01866	2-VINYL CROTONALDEHYDE	LOW	SKIN INHAL	.00000
01867	CROTONALDEHYDE DIMER	LOW	SKIN INHAL	.00000
01868	CROTONALDEHYDE RESIN	LOW	SKIN INHAL	.00000
01869	2-ETHYLHEXYL ACID PHOSPHATE	LOW	SKIN	.00000
01870	2-ETHYL-1-BUTANOL, 98%	LOW	SKIN INHAL	.00000
20655	CALCIUM HYDROXIDE	HIGH	SKIN INHAL	.00000
20672	HCCG METHANOL	HIGH	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0001 2 ETHYLHEXANOL/BUTANOL
START DATE - 11/02/64
END DATE - 07/01/70
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 040

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00925	PHOSPHORIC ACID, 70-85%	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01330	ACETALDOL	LOW	SKIN	.00000	
01348	HCCG BUTYRALDEHYDE	MED	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01519	SODIUM TRIPOLYPHOSPHATE	LOW	SKIN	.00000	
01534	TETRASODIUM ETHYLENEDIAMINETETRAACETIC ACID	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	HIGH	SKIN INHAL	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01818	BETZ 403	LOW	SKIN	.00000	
01827	BUTYRALDOL	LOW	SKIN INHAL	.00000	
01828	2-ETHYLHEXANAL	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01840	SODIUM BUTYRATE	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
01849	NITROBENZENE 99%	MED	SKIN INHAL	.00000	
01857	2-ETHYLBUTYRALDEHYDE, 92+%	LOW	SKIN INHAL	.00000	
01865	2,4-HEXADIENEAL	LOW	SKIN INHAL	.00000	
01866	2-VINYL CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01867	CROTONALDEHYDE DIMER	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01868	CROTONALDEHYDE RESIN	LOW	SKIN INHAL	.00000
01869	2-ETHYLHEXYL ACID PHOSPHATE	LOW	SKIN	.00000
01870	2-ETHYL-1-BUTANOL, 98%	LOW	SKIN INHAL	.00000
20672	HCCG METHANOL	HIGH	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0001 2 ETHYLHEXANOL/BUTANOL
START DATE - 07/02/70
END DATE - 11/01/72
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 041

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00925	PHOSPHORIC ACID, 70-85%	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01330	ACETALDOL	LOW	SKIN	.00000	
01348	HCCG BUTYRALDEHYDE	MED	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01519	SODIUM TRIPOLYPHOSPHATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	HIGH	SKIN INHAL	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01818	BETZ 403	LOW	SKIN	.00000	
01827	BUTYRALDOL	LOW	SKIN INHAL	.00000	
01828	2-ETHYLHEXANAL	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01840	SODIUM BUTYRATE	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
01857	2-ETHYLBUTYRALDEHYDE, 92+%	LOW	SKIN INHAL	.00000	
01865	2,4-HEXADIENEAL	LOW	SKIN INHAL	.00000	
01866	2-VINYL CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01867	CROTONALDEHYDE DIMER	LOW	SKIN INHAL	.00000	
01868	CROTONALDEHYDE RESIN	LOW	SKIN INHAL	.00000	
01869	2-ETHYLHEXYL ACID PHOSPHATE	LOW	SKIN	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01870	2-ETHYL-1-BUTANOL, 98%	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0001 2 ETHYLHEXANOL/BUTANOL
START DATE - 11/02/72
END DATE - 02/01/75
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 042

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW		.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00925	PHOSPHORIC ACID, 70-85%	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01330	ACETALDOL	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	SKIN	.00000	
01397	2,2-DICHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01519	SODIUM TRIPOLYPHOSPHATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	HIGH	SKIN INHAL	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01818	BETZ 403	LOW	SKIN	.00000	
01827	BUTYRALDOL	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01840	SODIUM BUTYRATE	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
01866	2-VINYL CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01867	CROTONALDEHYDE DIMER	LOW	SKIN INHAL	.00000	
01868	CROTONALDEHYDE RESIN	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0001 2 ETHYLHEXANOL/BUTANOL
START DATE - 02/02/75
END DATE - 11/01/75
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 043

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW		.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00925	PHOSPHORIC ACID, 70-85%	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01330	ACETALDOL	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYOE	MED	SKIN	.00000	
01397	2,2-DICHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01519	SODIUM TRIPOLYPHOSPHATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	HIGH	SKIN INHAL	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01818	BETZ 403	LOW	SKIN	.00000	
01827	BUTYRALDOL	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01840	SODIUM BUTYRATE	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
01866	2-VINYL CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01867	CROTONALDEHYDE DIMER	LOW	SKIN INHAL	.00000	
01868	CROTONALDEHYDE RESIN	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 01/01/64
END DATE - 11/01/64
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 014

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 11/02/64
END DATE - 03/01/65
AREA -
JOB(S) - 9238 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 015

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	MED	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 03/02/65
END DATE - 06/01/65
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 016

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	MED	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00921	PHENOTHIAZINE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 08/02/65
END DATE - 05/01/67
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 017

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00921	PHENOTHIAZINE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 05/02/67
END DATE - 04/01/70
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 018

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00921	PHENOTHIAZINE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 04/02/70
END DATE - 07/01/71
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 019

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00921	PHENOTHIAZINE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01864	DRY CYCLOHEXANOL/CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 07/02/71
END DATE - 05/01/72
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 020

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00921	PHENOTHIAZINE	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01425	HYFLO SUPER CEL	MED	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01849	NITROBENZENE 99%	LOW	SKIN INHAL	.00000	
01850	SODIUM BISULFITE	HIGH	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 05/02/72
END DATE - 11/01/72
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9816 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 021

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN INHAL	.00000	
00921	PHENOTHIAZINE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	HIGH	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 11/02/72
END DATE - 12/01/74
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 022

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	PPM
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	HIGH	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 12/02/74
END DATE - 02/01/75
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 023

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW		.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	PPM
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	2.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 02/02/75
END DATE - 11/01/75
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 024

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	PPM
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	2.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 11/02/75
END DATE - 05/01/78
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 025

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	2.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 05/02/78
END DATE - 04/01/79
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9816 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 026

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00356	DIPHENYLAMINE	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	2.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 04/02/79
END DATE - 07/01/79
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 027

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00356	DIPHENYLAMINE	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00960	HCCG PROPIONALDEHYDE	LOW	SKIN INHAL	.00000	
01320	HCCG N-PROPANOL	LOW	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	2.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0002 WAREHOUSE/TRAFFIC
START DATE - 07/02/79
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 028

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	20.00000	MG/CU. M.
00356	DIPHENYLAMINE	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	7.00000	MG/CU. M.
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01320	HCCG N-PROPANOL	LOW	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	7.20000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	2.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01390	T-60 RESIDUE (POLYGLYCOLS)	LOW	SKIN INHAL	.00000	
01391	T-70 OVERHEAD	LOW	SKIN INHAL	.00000	
01392	V M & P NAPHTHA	LOW	SKIN INHAL	.00000	
01824	DOW COP ACIDS	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.00000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	46.00000	MG/CU. M.

AREA -
JOB(S) - 9004 A ANALYST
0601 ANALYTICAL AND QUALITY CONTROL
0607 LAB SUPERVISION (SHIFT)
SHEET NO. - 053

CONTAMINANT	NAME	EXP. POT.	MODE		CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED		INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN	INHAL	.00000	
00096	BENZENE	LOW	SKIN	INHAL	.00000	
00810	ISOPROPANOL	LOW	SKIN	INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN	INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN		.00000	
00978	RANEY ALLOYS	LOW	SKIN		.00000	
01135	SULFURIC ACID	LOW	SKIN		.00000	
01330	ACETALDOL	LOW	SKIN		.00000	
01348	HCCG BUTYRALDEHYDE	MED		INHAL	.00000	
01768	CROTONALDEHYDE	LOW		INHAL	.00000	
01825	DIBUTYL PHOSPHATE	LOW	SKIN		.00000	
01826		LOW	SKIN		.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 11/02/70
END DATE - 11/01/72
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 057

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00096	BENZENE	LOW	SKIN INHAL	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00840	2-ETHYLHEXANOL	LOW	SKIN	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01330	ACETALDOL	LOW	SKIN	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	INHAL	.00000	
01825	DIBUTYL PHOSPHATE	LOW	SKIN	.00000	
01826		LOW	SKIN	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01827	BUTYRALDOL	LOW	SKIN	.00000
01828	2-ETHYLHEXANAL	LOW	SKIN	.00000
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000
01830	DIOXANE	MED	SKIN INHAL	.00000
01848	PHTHALIC ANHYDRIDE	LOW	SKIN	.00000
01849	NITROBENZENE 99%	MED	SKIN INHAL	.00000
01850	SODIUM BISULFITE	LOW	SKIN	.00000
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000
02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000
20872	HCCG METHANOL	MED	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 11/02/72
END DATE - 02/01/75
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 058

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00096	BENZENE	LOW	SKIN INHAL	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01330	ACETALDOL	LOW	SKIN	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	INHAL	.00000	
01825	DIBUTYL PHOSPHATE	LOW	SKIN	.00000	
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000	
01849	NITROBENZENE 99%	MED	SKIN INHAL	.00000	
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000
20672	HCCG METHANOL	MED	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 02/02/75
END DATE - 11/01/75
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 059

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00096	BENZENE	LOW	SKIN INHAL	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01330	ACETALDOL	LOW	SKIN	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01768	CROTONALDEHYDE	LOW	INHAL	.00000	
01825	DIBUTYL PHOSPHATE	LOW	SKIN	.00000	
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01849	NITROBENZENE 99%	MED	SKIN INHAL	.00000
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000
02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000
20672	HCCG METHANOL	MED	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 11/02/75
END DATE - 05/01/78
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 060

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00096	BENZENE	LOW	SKIN INHAL	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000	
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000	
02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

20672	HCCG METHANOL	MED	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 05/02/78
END DATE - 04/01/79
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 061

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01215	TRIPHENYL PHOSPHINE	LOW	SKIN	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000	
01851	TRIPHENYLPHOSPHINE OXIDE	LOW	SKIN	.00000	
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000	
02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000
20672	HCCG METHANOL	MED	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 04/02/79
END DATE - 07/01/79
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 062

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00960	HCCG PROPIONALDEHYDE	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01215	TRIPHENYL PHOSPHINE	LOW	SKIN	.00000	
01320	HCCG N-PROPANOL	LOW	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000	
01833	DIPROPYL ETHER	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01851	TRIPHENYLPHOSPHINE OXIDE	LOW	SKIN	.00000
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000
02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000
20672	HCCG METHANOL	MED	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0003 LABORATORY
START DATE - 07/02/79
END DATE - 01/09/80
AREA -
JOB(S) - 9005 A ANALYST - SHIFT
9352 ANALYST.B
0607 LAB SUPERVISION (SHIFT)
0601 ANALYTICAL AND QUALITY CONTROL
SHEET NO. - 063

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00004	HCCG ACETALDEHYDE	MED	INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00007	HCCG ACETONE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00049	AMMONIUM METAVANADATE	LOW	SKIN	.00000	
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00264	COPPER CHROMITE	LOW	SKIN INHAL	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00610	ISOPROPANOL	LOW	SKIN INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00960	HCCG PROPIONALDEHYDE	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01215	TRIPHENYL PHOSPHINE	LOW	SKIN	.00000	
01320	HCCG N-PROPANOL	LOW	SKIN INHAL	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	MED	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01392	V M & P NAPHTHA	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	INHAL	.00000	
01398	CHLOROACETALDEHYDE	LOW	INHAL	.00000	
01406	DIISOPROPANOLAMINE	LOW	SKIN	.00000	
01407	SULFOLANE	LOW	SKIN	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01755	CARBON TETRACHLORIDE, 99%	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

01763	CHLOROFORM	LOW	SKIN INHAL	.00000
01829	KARL FISCHER REAGENT, SINGLE SOLUTION, STABILIZED,	MED	SKIN INHAL	.00000
01833	DIPROPYL ETHER	LOW	SKIN INHAL	.00000
01851	TRIPHENYLPHOSPHINE OXIDE	LOW	SKIN	.00000
01874	T-68 RESIDUE	LOW	SKIN INHAL	.00000
02093	T-74 OVERHEAD	LOW	SKIN INHAL	.00000
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000
20672	HCCG METHANOL	MED	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0004 UTILITIES/SYN GAS
START DATE - 11/02/64
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
SHEET NO. - 011

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00213	CHLORINE	LOW	INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00441	FERROUS SULFATE	LOW	SKIN INHAL	.01000	MG/CU. M.
00562	BETZ HYZEEN	LOW	SKIN INHAL	.01000	MG/CU. M.
00566	HYDROGEN	LOW	INHAL	.00000	
00791	MONOETHANOLAMINE	LOW	SKIN	.00000	
00837	OAKITE PENETRANT	LOW	SKIN INHAL	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01372	NALCO 607	LOW	SKIN	.00000	
01403	SODIUM HEXAMETAPHOSPHATE	MED	SKIN INHAL	.00000	
01534	TETRASODIUM ETHYLENEDIAMINETETRAACETIC ACID	LOW	SKIN	.00000	
01871	PYRO CATALYST	LOW	SKIN	.00000	
20031	BARIUM OXIDE	LOW	SKIN	.00000	
20116	SODIUM NITRITE	LOW	SKIN	.00000	
20655	CALCIUM HYDROXIDE	MED	SKIN INHAL	2.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0004 UTILITIES/SYN GAS
START DATE - 11/02/64
END DATE - 01/09/80
AREA -
JOB(S) - 0904 SHIFT SUPERVISOR
SHEET NO. - 012

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00213	CHLORINE	LOW	INHAL	.00000	
00217	CHROMIC ACID	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00441	FERROUS SULFATE	LOW	SKIN INHAL	.01000	MG/CU. M.
00545	HERCULES COOLING WATER TREATMENT CHEMICAL AF-530	LOW	SKIN	.00000	
00548	HERCULES SPECIALTY WATER TREATMENT CHEMICAL SP-926	LOW	SKIN	.00000	
00562	BETZ HYZEEN	LOW	SKIN INHAL	.01000	MG/CU. M.
00566	HYDROGEN	LOW	INHAL	.00000	
00791	MONOETHANOLAMINE	LOW	SKIN	.00000	
00823	NITRIC ACID	LOW	SKIN	.00000	
00837	OAKITE PENETRANT	LOW	SKIN INHAL	.00000	
01083	SODIUM HYPOCHLORITE SOLUTION	LOW	SKIN INHAL	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01371	HERCULES COOLING WATER TREATMENT CHEMICAL AF-533	LOW	SKIN	.00000	
01372	NALCO 607	LOW	SKIN	.00000	
01403	SODIUM HEXAMETAPHOSPHATE	LOW	SKIN INHAL	.00000	
01534	TETRASODIUM ETHYLENEDIAMINETETRAACETIC ACID	LOW	SKIN	.00000	
01836	DICASORB	LOW	SKIN	.00000	
01847	NALCO 8103	LOW	SKIN	.00000	
01871	PYRO CATALYST	LOW	SKIN	.00000	
20031	BARIUM OXIDE	LOW	SKIN	.00000	
20116	SODIUM NITRITE	LOW	SKIN	.00000	
20655	CALCIUM HYDROXIDE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0004 UTILITIES/SYN GAS
START DATE - 11/02/64
END DATE - 01/09/80
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 013

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	.00000	
00213	CHLORINE	LOW	INHAL	.00000	
00217	CHROMIC ACID	MED	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00441	FERROUS SULFATE	LOW	SKIN INHAL	.01000	MG/CU. M.
00545	HERCULES COOLING WATER TREATMENT CHEMICAL AF-530	LOW	SKIN	.00000	
00548	HERCULES SPECIALTY WATER TREATMENT CHEMICAL SP-926	LOW	SKIN	.00000	
00823	NITRIC ACID	LOW	SKIN	.00000	
00837	OAKITE PENETRANT	LOW	SKIN INHAL	.00000	
01083	SODIUM HYPOCHLORITE SOLUTION	LOW	SKIN INHAL	.00000	
01135	SULFURIC ACID	LOW	SKIN	.00000	
01371	HERCULES COOLING WATER TREATMENT CHEMICAL AF-533	MED	SKIN	.00000	
01836	DICASORB	LOW	SKIN INHAL	.00000	
01847	NALCO 8103	LOW	SKIN	.00000	
20655	CALCIUM HYDROXIDE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0005 CHOX/NITRIC/K
START DATE - 11/02/64
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 030

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00096	BENZENE	LOW	SKIN INHAL	.10000	PPM
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	2.00000	MG/CU. M.
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00933	PLATINUM-RHODIUM GAUZE	LOW	SKIN	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	4.00000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	4.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01381	1,5-PENTANEDIOL 97%	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0005 CHOX/NITRIC/K
START DATE - 11/02/64
END DATE - 01/09/80
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 031

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00003	LOW ODOR PARAFFIN SOLVENT (LOPS)	LOW	SKIN INHAL	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00096	BENZENE	LOW	SKIN INHAL	.10000	PPM
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00216	CHROME III NAPHTHENATE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	2.00000	MG/CU. M.
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00933	PLATINUM-RHODIUM GAUZE	LOW	SKIN	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	4.00000	MG/CU. M.
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	4.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01379	CYCLOHEXANE OXIDATION PRODUCTS	LOW	SKIN INHAL	.00000	
01380	COBALT NAPHTHENATE IN TOLUENE	LOW	SKIN	.00000	
01381	1,5-PENTANEDIOL 97%	LOW	SKIN INHAL	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0008 ADIPIC ACID
START DATE - 11/02/64
END DATE - 10/01/70
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 047

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00049	AMMONIUM METAVANADATE	MED	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00563	HYDROBROMIC ACID, TECHNICAL, 48%	LOW	SKIN	.00000	
00665	LITHIUM BROMIDE	LOW	SKIN	.00000	
00667	LITHIUM CHROMATE SOLUTION, 35%	LOW	SKIN	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01770	CUPRIC NITRATE	LOW	SKIN INHAL	.00000	
01841	NITROUS OXIDE	LOW	INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0006 ADIPIC ACID
START DATE - 11/02/64
END DATE - 10/01/70
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 048

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	MED	SKIN INHAL	.00000	
00049	AMMONIUM METAVANADATE	MED	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01770	CUPRIC NITRATE	LOW	SKIN INHAL	.00000	
01841	NITROUS OXIDE	LOW	INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0007 NYLON SALT
START DATE - 11/02/64
END DATE - 10/01/70
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 045

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	LOW	SKIN INHAL	25.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0007 NYLON SALT
START DATE - 11/02/64
END DATE - 10/01/70
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 046

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	MED	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	MED	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	HIGH	SKIN INHAL	225.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0008 HDO
START DATE - 11/02/64
END DATE - 06/01/65
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
9616 OPERATOR B
SHEET NO. - 032

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00264	COPPER CHROMITE	MED	SKIN INHAL	1.00000	MG/CU. M. (RESP. DUST)
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01381	1,5-PENTANEDIOL 97%	LOW	SKIN INHAL	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01386	1,4-BUTANEDIOL	LOW	SKIN INHAL	.00000	
01387	CYCLO-OXY-HEXANOL	LOW	SKIN INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01819	C4-C8 ALCOHOLS	LOW	SKIN INHAL	.00000	
01860	C4-C8 ETHERS	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0008 HDO
START DATE - 07/02/68
END DATE - 04/01/70
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
9616 OPERATOR B
SHEET NO. - 034

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00264	COPPER CHROMITE	MED	SKIN INHAL	1.00000	MG/CU. M. (RESP. DUST)
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01381	1,5-PENTANEDIOL 97%	LOW	SKIN INHAL	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01386	1,4-BUTANEDIOL	LOW	SKIN INHAL	.00000	
01387	CYCLO-OXY-HEXANOL	LOW	SKIN INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01819	C4-C8 ALCOHOLS	LOW	SKIN INHAL	.00000	
01860	C4-C8 ETHERS	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0009 HMDA
START DATE - 11/02/64
END DATE - 06/01/65
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
9616 OPERATOR B
SHEET NO. - 033

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	14.00000	PPM
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	1.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01383	6-AMINOHEXANOL	LOW	SKIN INHAL	.00000	
01384	1,7 DIAMINOHEPTANE	LOW	SKIN INHAL	.00000	
01820	AMYLAMINE	LOW	SKIN INHAL	.00000	
01821	1,2-DIAMINOCYCLOHEXANE	LOW	SKIN INHAL	.00000	
01844	PIPERIDINE	LOW	SKIN INHAL	.00000	
01859	POLYMERIC AMINES	LOW	SKIN INHAL	.00000	
01861	1,4-DIAMINO CYCLOHEXANE	LOW	SKIN INHAL	.00000	
01862	N-PENTYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01863	N-HEXYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.50000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0009 HMDA
START DATE - 07/02/68
END DATE - 04/01/70
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
9616 OPERATOR B
SHEET NO. - 035

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	14.00000	PPM
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	1.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01383	6-AMINOHEXANOL	LOW	SKIN INHAL	.00000	
01384	1,7 DIAMINOHEPTANE	LOW	SKIN INHAL	.00000	
01820	AMYLAMINE	LOW	SKIN INHAL	.00000	
01821	1,2-DIAMINOCYCLOHEXANE	LOW	SKIN INHAL	.00000	
01844	PIPERIDINE	LOW	SKIN INHAL	.00000	
01859	POLYMERIC AMINES	LOW	SKIN INHAL	.00000	
01861	1,4-DIAMINO CYCLOHEXANE	LOW	SKIN INHAL	.00000	
01862	N-PENTYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01863	N-HEXYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.50000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0010 VINYL ACETATE (L.P.)
START DATE - 03/02/65
END DATE - 05/02/72
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 029

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	MED	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	HIGH	SKIN INHAL	.00000	
00006	HCCG ACETIC ANHYDRIDE	LOW	SKIN INHAL	.00000	
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00293	CUPRIC ACETATE	HIGH	SKIN INHAL	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00469	HCCG FORMIC ACID	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	MED	SKIN INHAL	.00000	
00668	LITHIUM HYDROXIDE	LOW	SKIN	.00000	
00764	HCCG METHYL FORMATE	LOW	SKIN INHAL	.00000	
00901	PALLADIUM CHLORIDE SOLUTION	LOW	SKIN	.00000	
00921	PHENOTHIAZINE	MED	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
01135	SULFURIC ACID	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	LOW	SKIN INHAL	.00000	
01348	HCCG BUTYRALDEHYDE	LOW	SKIN INHAL	.00000	
01393	ETHYLIDENE DIACETATE	LOW	SKIN	.00000	
01394	ETHYLENE GLYCOL DIACETATE	LOW	SKIN	.00000	
01395	ETHYLENE GLYCOL MONOACETATE	LOW	SKIN	.00000	
01396	POLYVINYL ACETATE	LOW	SKIN	.00000	
01423	COPPER OXALATE	MED	SKIN	.00000	
01822	ALPHA METHYL STYRENE	LOW	SKIN INHAL	.00000	
01823	CESCO SALTY DOG	MED	SKIN INHAL	.00000	
01845	LITHIUM ACETATE	LOW	SKIN	.00000	
01846	MOBILTHERM 600	LOW	SKIN	.00000	
01849	NITROBENZENE 99%	LOW	SKIN	.00000	
01850	SODIUM BISULFITE	MED	SKIN INHAL	.00000	
20002	MANGANESE ACETATE	LOW	SKIN	.00000	
20110	FORMALDEHYDE	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	HIGH	SKIN INHAL	.00000	
20937	SODIUM BICARBONATE	LOW	SKIN	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0011 NYLON/SALT
START DATE - 10/02/70
END DATE - 04/01/77
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 049

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00049	AMMONIUM METAVANADATE	MED	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00563	HYDROBROMIC ACID, TECHNICAL, 48%	LOW	SKIN	.00000	
00665	LITHIUM BROMIDE	LOW	SKIN	.00000	
00667	LITHIUM CHROMATE SOLUTION, 35%	LOW	SKIN	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01770	CUPRIC NITRATE	LOW	SKIN INHAL	.00000	
01841	NITROUS OXIDE	LOW	INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	LOW	SKIN INHAL	25.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0011 NYLON/SALT
START DATE - 10/02/70
END DATE - 04/01/77
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 050

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	MED	SKIN INHAL	.00000	
00049	AMMONIUM METAVANADATE	MED	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01330	ACETALDOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	MED	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01770	CUPRIC NITRATE	LOW	SKIN INHAL	.00000	
01841	NITROUS OXIDE	LOW	INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	HIGH	SKIN INHAL	225.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0011 NYLON/SALT
START DATE - 04/02/77
END DATE - 01/09/80
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 051

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	MED	SKIN INHAL	.00000	
00049	AMMONIUM METAVANADATE	MED	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	MED	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01770	CUPRIC NITRATE	LOW	SKIN INHAL	.00000	
01841	NITROUS OXIDE	LOW	INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	MED	SKIN INHAL	85.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0011 NYLON/SALT
START DATE - 04/02/77
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 052

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00017	ADIPIC ACID	LOW	SKIN INHAL	.00000	
00049	AMMONIUM METAVANADATE	MED	SKIN INHAL	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00563	HYDROBROMIC ACID, TECHNICAL, 48%	LOW	SKIN	.00000	
00665	LITHIUM BROMIDE	LOW	SKIN	.00000	
00667	LITHIUM CHROMATE SOLUTION, 35%	LOW	SKIN	.00000	
00823	NITRIC ACID	MED	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
01333	CYCLOHEXANOL	LOW	SKIN INHAL	.00000	
01334	HCCG CYCLOHEXANONE	LOW	SKIN INHAL	.00000	
01359	NYLON 6,6 SALT SOLUTION (50%)	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	MED	INHAL	.00000	
01376	NITROGEN DIOXIDE	MED	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01770	CUPRIC NITRATE	LOW	SKIN INHAL	.00000	
01841	NITROUS OXIDE	LOW	INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	.00000	
20672	HCCG METHANOL	LOW	SKIN INHAL	25.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0012 VINYL ACETATES (VP)/ALDEHYDE
START DATE - 11/02/72
END DATE - 01/01/78
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 006

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	HIGH	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN	.00000	
00045	AMMONIA	LOW	SKIN INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00469	HCCG FORMIC ACID	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00893	P-BENZOQUINONE	LOW	SKIN INHAL	.01000	PPM
00944	POTASSIUM ACETATE	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
01325	METHYL ACETATE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	LOW	SKIN INHAL	1.10000	MG/CU. M.
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01393	ETHYLIDENE DIACETATE	LOW	SKIN INHAL	.00000	
01394	ETHYLENE GLYCOL DIACETATE	LOW	SKIN INHAL	.00000	
01395	ETHYLENE GLYCOL MONOACETATE	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	3.00000	MG/CU. M.
01399	PARACETALDEHYDE	LOW	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01773	CUPROUS CHLORIDE	LOW	SKIN	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01837	CHLOROACETIC ACID	LOW	SKIN INHAL	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
20002	MANGANESE ACETATE	LOW	SKIN INHAL	1.00000	MG/CU. M.
20096	HCCG ETHYL ACETATE	LOW	SKIN INHAL	.00000	
20896	HCCG METHYL ETHYL KETONE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0012 VINYL ACETATES (VP)/ALDEHYDE
START DATE - 03/02/78
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 008

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	MED	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN	.00000	
00045	AMMONIA	LOW	SKIN INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00469	HCCG FORMIC ACID	LOW	SKIN INHAL	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00762	METHANE SULFONIC ACID	LOW	SKIN	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00893	P-BENZOQUINONE	LOW	SKIN INHAL	.01000	PPM
00944	POTASSIUM ACETATE	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00948	POTASSIUM HYDROXIDE, SOLID	LOW	SKIN	.00000	
01325	METHYL ACETATE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	LOW	SKIN INHAL	1.10000	MG/CU. M.
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01393	ETHYLIDENE DIACETATE	LOW	SKIN INHAL	.00000	
01394	ETHYLENE GLYCOL DIACETATE	LOW	SKIN INHAL	.00000	
01395	ETHYLENE GLYCOL MONOACETATE	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	MED	SKIN INHAL	3.00000	MG/CU. M.
01399	PARACETALDEHYDE	LOW	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01773	CUPROUS CHLORIDE	LOW	SKIN	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01837	CHLOROACETIC ACID	LOW	SKIN INHAL	.00000	
01838	BORAX	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
20002	MANGANESE ACETATE	LOW	SKIN INHAL	1.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

20096	HCCG ETHYL ACETATE	LOW	SKIN INHAL	.00000
20896	HCCG METHYL ETHYL KETONE	LOW	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0012 VINYL ACETATES (VP)/ALDEHYDE
START DATE - 11/02/72
END DATE - 01/01/78
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 009

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00548	HERCULES SPECIALTY WATER TREATMENT CHEMICAL SP-926	LOW	SKIN	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	HIGH	SKIN INHAL	3.00000	MG/CU. M.
01399	PARACETALDEHYDE	LOW	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01773	CUPROUS CHLORIDE	LOW	SKIN	.00000	
01793	CHLOROETHANE	LOW	SKIN INHAL	.00000	
01837	CHLOROACETIC ACID	LOW	SKIN INHAL	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
20896	HCCG METHYL ETHYL KETONE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0012 VINYL ACETATES (VP)/ALDEHYDE
START DATE - 03/02/78
END DATE - 01/09/80
AREA -
JOB(S) - 9616 OPERATOR B
SHEET NO. - 010

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00004	HCCG ACETALDEHYDE	LOW	SKIN INHAL	.00000	
00005	HCCG ACETIC ACID, GLACIAL	LOW	SKIN INHAL	.00000	
00017	ADIPIC ACID	LOW	SKIN	.00000	
00045	AMMONIA	LOW	INHAL	.00000	
00293	CUPRIC ACETATE	LOW	SKIN	.00000	
00294	CUPRIC CHLORIDE	LOW	SKIN	.00000	
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00469	HCCG FORMIC ACID	LOW	SKIN INHAL	.00000	
00548	HERCULES SPECIALTY WATER TREATMENT CHEMICAL SP-926	LOW	SKIN	.00000	
00564	HYDROCHLORIC ACID	LOW	SKIN INHAL	.00000	
00567	HYDROQUINONE	LOW	SKIN INHAL	.00000	
00639	METHYLENE CHLORIDE	LOW	SKIN INHAL	.00000	
00762	METHANE SULFONIC ACID	LOW	SKIN	.00000	
00823	NITRIC ACID	LOW	SKIN INHAL	.00000	
00893	P-BENZOQUINONE	LOW	SKIN INHAL	.01000	PPM
00944	POTASSIUM ACETATE	LOW	SKIN INHAL	.00000	
00946	POTASSIUM DICHROMATE	LOW	SKIN	.00000	
00948	POTASSIUM HYDROXIDE, SOLID	LOW	SKIN	.00000	
01325	METHYL ACETATE	LOW	SKIN INHAL	.00000	
01332	HCCG VINYL ACETATE	LOW	SKIN INHAL	.00000	
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01377	SUCCINIC ACID	LOW	SKIN	.00000	
01378	GLUTARIC ACID	LOW	SKIN	.00000	
01393	ETHYLIDENE DIACETATE	LOW	SKIN INHAL	.00000	
01394	ETHYLENE GLYCOL DIACETATE	LOW	SKIN INHAL	.00000	
01395	ETHYLENE GLYCOL MONOACETATE	LOW	SKIN INHAL	.00000	
01397	2,2-DICHLOROACETALDEHYDE	LOW	SKIN INHAL	.00000	
01398	CHLOROACETALDEHYDE	MED	SKIN INHAL	.00000	
01399	PARACETALDEHYDE	LOW	SKIN INHAL	.00000	
01423	COPPER OXALATE	LOW	SKIN	.00000	
01763	CHLOROFORM	LOW	SKIN INHAL	.00000	
01773	CUPROUS CHLORIDE	LOW	SKIN	.00000	
01793	CHLORDETHANE	LOW	SKIN INHAL	.00000	
01837	CHLOROACETIC ACID	LOW	SKIN INHAL	.00000	
01838	BORAX	LOW	SKIN	.00000	
01842	METHYL CHLORIDE	LOW	SKIN INHAL	.00000	
01843	NALCO 71-B	LOW	SKIN	.00000	
20002	MANGANESE ACETATE	LOW	SKIN INHAL	1.00000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

20096	HCCG ETHYL ACETATE	LOW	SKIN INHAL	.00000
20896	HCCG METHYL ETHYL KETONE	LOW	SKIN INHAL	.00000

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0013 ISO BUTANOL
START DATE - 11/02/75
END DATE - 12/01/77
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9816 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 044

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00566	HYDROGEN	LOW	INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	.00000	
00978	RANEY ALLOYS	MED	SKIN	.00000	
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0014 OXO BUTANOL/PROPANOL
START DATE - 05/02/78
END DATE - 04/01/79
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 003

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00423	HCCG ETHYLENE GLYCOL	LOW	SKIN	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
00761	METHANE	LOW	INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
00959	PROPANE	LOW	INHAL	.00000	
00961	PROPYLENE	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01001	RHODIUM NITRATE	LOW	SKIN	.00000	
01215	TRIPHENYL PHOSPHINE	LOW	SKIN INHAL	.01000	MG/CU. M. (TOTAL DUST)
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	6.00000	MG/CU. M.
01348	HCCG BUTYRALDEHYDE	LOW	SKIN INHAL	10.00000	MG/CU. M.
01388	UCON OIL LB-625	LOW	SKIN	.00000	
01750	N-BUTYL N-BUTYRATE	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01851	TRIPHENYLPHOSPHINE OXIDE	LOW	SKIN	.00000	
01873	N-BUTYL ISOBUTYRATE	LOW	SKIN INHAL	.00000	
20014	NITROGEN	LOW	INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0014 OXO BUTANOL/PROPANOL
START DATE - 04/02/79
END DATE - 07/01/79
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 004

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.10000	MG/CU. M.
00423	HCCG ETHYLENE GLYCOL	LOW	SKIN	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
00761	METHANE	LOW	INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
00960	HCCG PROPIONALDEHYDE	LOW	SKIN INHAL	10.00000	MG/CU. M.
00961	PROPYLENE	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01001	RHODIUM NITRATE	LOW	SKIN	.00000	
01215	TRIPHENYL PHOSPHINE	LOW	SKIN INHAL	.01000	MG/CU. M. (TOTAL DUST)
01320	HCCG N-PROPANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	6.00000	MG/CU. M.
01348	HCCG BUTYRALDEHYDE	LOW	SKIN INHAL	10.00000	MG/CU. M.
01388	UCON OIL LB-625	LOW	SKIN	.00000	
01539	HERCULES COOLING WATER TREATMENT CHEMICAL AF-511	LOW	SKIN	.00000	
01750	N-BUTYL N-BUTYRATE	LOW	SKIN INHAL	.00000	
01833	DIPROPYL ETHER	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01851	TRIPHENYLPHOSPHINE OXIDE	LOW	SKIN	.00000	
01853	SODIUM PROPIONATE	LOW	SKIN	.00000	
01873	N-BUTYL ISOBUTYRATE	LOW	SKIN INHAL	.00000	
20014	NITROGEN	LOW	INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0014 OXO BUTANOL/PROPANOL
START DATE - 07/02/79
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 005

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00096	BENZENE	LOW	SKIN INHAL	.10000	PPM
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00295	SODIUM HYDROXIDE SOLUTIONS, 40% AND 50%	LOW	SKIN	.00000	
00299	CYCLOHEXANE	LOW	SKIN INHAL	.10000	MG/CU. M.
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00422	ETHYLENE	LOW	INHAL	.00000	
00423	HCCG ETHYLENE GLYCOL	LOW	SKIN	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00608	HCCG ISOBUTANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
00761	METHANE	LOW	INHAL	.00000	
00809	HCCG N-BUTANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
00959	PROPANE	LOW	INHAL	.00000	
00960	HCCG PROPIONALDEHYDE	LOW	SKIN INHAL	10.00000	MG/CU. M.
00961	PROPYLENE	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01001	RHODIUM NITRATE	LOW	SKIN	.00000	
01215	TRIPHENYL PHOSPHINE	LOW	SKIN INHAL	.01000	MG/CU. M. (TOTAL DUST)
01320	HCCG N-PROPANOL	LOW	SKIN INHAL	6.00000	MG/CU. M.
01323	ISOBUTYRALDEHYDE	LOW	SKIN INHAL	6.00000	MG/CU. M.
01348	HCCG BUTYRALDEHYDE	LOW	SKIN INHAL	10.00000	MG/CU. M.
01388	UCON OIL LB-625	LOW	SKIN	.00000	
01409	ETHANE	LOW	INHAL	.00000	
01478	TOLUENE	LOW	SKIN INHAL	.10000	PPM
01539	HERCULES COOLING WATER TREATMENT CHEMICAL AF-511	LOW	SKIN	.00000	
01750	N-BUTYL N-BUTYRATE	LOW	SKIN INHAL	.00000	
01833	DIPROPYL ETHER	LOW	SKIN INHAL	.00000	
01835	DIBUTYL ETHER	LOW	SKIN INHAL	.00000	
01851	TRIPHENYLPHOSPHINE OXIDE	LOW	SKIN	.00000	
01853	SODIUM PROPIONATE	LOW	SKIN	.00000	
01873	N-BUTYL ISOBUTYRATE	LOW	SKIN INHAL	.00000	
20014	NITROGEN	LOW	INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0015 POX
START DATE - 07/02/79
END DATE - 01/09/80
AREA -
JOB(S) - 9616 OPERATOR B
9236 OPERATOR A/OPERATOR
0904 SHIFT SUPERVISOR
SHEET NO. - 001

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	1.00000	PPM
00096	BENZENE	LOW	SKIN INHAL	.10000	PPM
00181	CARBON DIOXIDE	LOW	INHAL	.00000	
00182	CARBON MONOXIDE	LOW	INHAL	3.00000	PPM
00566	HYDROGEN	LOW	INHAL	.00000	
00761	METHANE	LOW	INHAL	1.00000	PPM
01392	V M & P NAPHTHA	LOW	SKIN INHAL	5.00000	PPM
01406	DIISOPROPANOLAMINE	LOW	SKIN INHAL	.00000	
01407	SULFOLANE	LOW	SKIN INHAL	.00000	
01408	HYDROGEN SULFIDE	LOW	INHAL	.10000	PPM
01573	HYDROGEN CYANIDE	LOW	INHAL	.10000	PPM
20014	NITROGEN	LOW	INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0016 HMDA/HDO
START DATE - 06/02/65
END DATE - 07/01/68
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 036

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	14.00000	PPM
00264	COPPER CHROMITE	MED	SKIN INHAL	1.00000	MG/CU. M. (RESP. DUST)
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	1.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01381	1,5-PENTANEDIOL 97%	LOW	SKIN INHAL	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01383	6-AMINOHEXANOL	LOW	SKIN INHAL	.00000	
01384	1,7 DIAMINOHEPTANE	LOW	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01386	1,4-BUTANEDIOL	LOW	SKIN INHAL	.00000	
01387	CYCLO-OXY-HEXANOL	LOW	SKIN INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01819	C4-C8 ALCOHOLS	LOW	SKIN INHAL	.00000	
01820	AMYLAMINE	LOW	SKIN INHAL	.00000	
01821	1,2-DIAMINOCYCLOHEXANE	LOW	SKIN INHAL	.00000	
01844	PIPERIDINE	LOW	SKIN INHAL	.00000	
01859	POLYMERIC AMINES	LOW	SKIN INHAL	.00000	
01860	C4-C8 ETHERS	LOW	SKIN INHAL	.00000	
01861	1,4-DIAMINO CYCLOHEXANE	LOW	SKIN INHAL	.00000	
01862	N-PENTYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01863	N-HEXYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.50000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 0016 HMDA/HDO
START DATE - 04/02/70
END DATE - 01/09/80
AREA -
JOB(S) - 9236 OPERATOR A/OPERATOR
9616 OPERATOR B
0904 SHIFT SUPERVISOR
SHEET NO. - 037

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00045	AMMONIA	LOW	INHAL	14.00000	PPM
00264	COPPER CHROMITE	MED	SKIN INHAL	1.00000	MG/CU. M. (RESP. DUST)
00299	CYCLOHEXANE	LOW	SKIN INHAL	.00000	
00373	DOWTHERM A HEAT TRANSFER FLUID	LOW	SKIN INHAL	.00000	
00566	HYDROGEN	LOW	INHAL	.00000	
00978	RANEY ALLOYS	LOW	SKIN INHAL	.00000	
01342	HEXAMETHYLENEIMINE	LOW	SKIN INHAL	1.00000	MG/CU. M.
01354	1,6-HEXANEDIOL	LOW	SKIN INHAL	.00000	
01381	1,5-PENTANEDIDL 97%	LOW	SKIN INHAL	.00000	
01382	CHOX ESTER	LOW	SKIN INHAL	.00000	
01383	6-AMINOHEXANOL	LOW	SKIN INHAL	.00000	
01384	1,7 DIAMINOHEPTANE	LOW	SKIN INHAL	.00000	
01385	HEXANOL	LOW	SKIN INHAL	.00000	
01386	1,4-BUTANEDIOL	LOW	SKIN INHAL	.00000	
01387	CYCLO-OXY-HEXANOL	LOW	SKIN INHAL	.00000	
01474	DIATOMACEOUS EARTH, CALCINED	LOW	SKIN INHAL	.00000	
01819	C4-C8 ALCOHOLS	LOW	SKIN INHAL	.00000	
01820	AMYLAMINE	LOW	SKIN INHAL	.00000	
01821	1,2-DIAMINOCYCLOHEXANE	LOW	SKIN INHAL	.00000	
01844	PIPERIDINE	LOW	SKIN INHAL	.00000	
01859	POLYMERIC AMINES	LOW	SKIN INHAL	.00000	
01860	C4-C8 ETHERS	LOW	SKIN INHAL	.00000	
01861	1,4-DIAMINO CYCLOHEXANE	LOW	SKIN INHAL	.00000	
01862	N-PENTYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
01863	N-HEXYL HEXAMETHYLENEIMINE	LOW	SKIN INHAL	.00000	
20552	HEXAMETHYLENEDIAMINE (HMDA)	LOW	SKIN INHAL	1.50000	MG/CU. M.
20672	HCCG METHANOL	LOW	SKIN INHAL	.00000	

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 9999 MAINTENANCE
START DATE - 06/08/79
END DATE - 01/09/80
AREA -
JOB(S) - 9334 WELDER A
9868 WELDER B
SHEET NO. - 064

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00822	NICKEL	LOW	INHAL	.00400	MG/CU. M.
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01431	HEXAVALENT CHROMIUM	LOW	INHAL	.00100	MG/CU. M.
01432	CHROMIUM	LOW	INHAL	.00400	MG/CU. M.
01435	IRON OXIDE FUME	LOW	INHAL	.03000	MG/CU. M.
01438	MANGANESE AND COMPOUNDS (AS MN)	LOW	INHAL	.00300	MG/CU. M.
01450	OZONE	LOW	INHAL	.00000	
01452	COPPER WELDING FUME	LOW	INHAL	.00400	MG/CU. M.
01455	TOTAL PARTICULATE	LOW	INHAL	.20000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 9999 MAINTENANCE
START DATE - 02/22/62
END DATE - 06/07/79
AREA -
JOB(S) - 9334 WELDER A
9868 WELDER B
SHEET NO. - 065

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00822	NICKEL	HIGH	INHAL	1.08000	MG/CU. M.
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01431	HEXAVALENT CHROMIUM	HIGH	INHAL	.05000	MG/CU. M.
01432	CHROMIUM	LOW	INHAL	.24000	MG/CU. M.
01435	IRON OXIDE FUME	LOW	INHAL	2.20000	MG/CU. M.
01438	MANGANESE AND COMPOUNDS (AS MN)	LOW	INHAL	.00000	
01450	OZONE	LOW	INHAL	.00000	
01452	COPPER WELDING FUME	LOW	INHAL	.23000	MG/CU. M.
01455	TOTAL PARTICULATE	HIGH	INHAL	16.20000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 9999 MAINTENANCE
START DATE - 02/22/62
END DATE - 06/07/79
AREA -
JOB(S) - 9084 BOILERMAKER A
9398 BOILERMAKER B
SHEET NO. - 066

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00822	NICKEL	HIGH	INHAL	1.08000	MG/CU. M.
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01431	HEXAVALENT CHROMIUM	HIGH	INHAL	.05000	MG/CU. M.
01432	CHROMIUM	LOW	INHAL	.24000	MG/CU. M.
01435	IRON OXIDE FUME	LOW	INHAL	2.20000	MG/CU. M.
01438	MANGANESE AND COMPOUNDS (AS MN)	LOW	INHAL	.00000	
01450	OZONE	LOW	INHAL	.00000	
01452	COPPER WELDING FUME	LOW	INHAL	.23000	MG/CU. M.
01455	TOTAL PARTICULATE	HIGH	INHAL	16.20000	MG/CU. M.

PLANT PROCESS DESCRIPTIONS

PLANT - 043 BAY CITY PLANT

UNIT - 9999 MAINTENANCE
START DATE - 06/08/79
END DATE - 01/09/80
AREA -
JOB(S) - 9084 BOILERMAKER A
9398 BOILERMAKER B
SHEET NO. - 067

CONTAMINANT	NAME	EXP. POT.	MODE	CONCENTRATION	UNITS
00822	NICKEL	LOW	INHAL	.00400	MG/CU. M.
01375	NITRIC OXIDE	LOW	INHAL	.00000	
01376	NITROGEN DIOXIDE	LOW	INHAL	.00000	
01431	HEXAVALENT CHROMIUM	LOW	INHAL	.00100	MG/CU. M.
01432	CHROMIUM	LOW	INHAL	.00400	MG/CU. M.
01435	IRON OXIDE FUME	LOW	INHAL	.03000	MG/CU. M.
01438	MANGANESE AND COMPOUNDS (AS MN)	LOW	INHAL	.00300	MG/CU. M.
01450	OZONE	LOW	INHAL	.00000	
01452	COPPER WELDING FUME	LOW	INHAL	.00400	MG/CU. M.
01455	TOTAL PARTICULATE	LOW	INHAL	.20000	MG/CU. M.