PLAINTIFF'S EXHIBIT
SII-3497

SM-32 (REV. 5-78)

Shell Oil Company
Interoffice Memorandum

Put in your book

MARCH 9, 1982

FROM: SENIOR INDUSTRIAL HYGIENIST

TO: SUPERINTENDENT HEALTH AND SAFETY

SUBJECT: RESPIRATOR USE SURVEY

After much discussion and due consideration, a final determination of the respirator use requirements for Maintenance North and South has been proposed (See attachment). The Maintenance Organization has given considerable thought to the process and has concluded that all craft jobs are Category III.

Please let me know if you have any questions.

Phil Snyder

P. J. Snyder

PJS/gri

Attachments

cc: With Attachments

L. V. Ashe
W. W. Reeves
ECB Satellite
PJS Chron

HUT - 084371

DPMC-10432

SMISC00003646

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

DPMC-10433

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermaker Maint. - N	Benzene	Periodically negative respirator used in pulling bundles on shutdowns.	Supplied air respirator/ SCBA used in emergency conditions.	Respirator not required for evacuation.
	Toluene	"	"	"
	Xylene	"	"	"
	Hexane	"	"	"
	Hydrogen* Sulfide	Supplied air respirator used when working on equipment containing H_2S.	"	"
	Sulfolane	-	-	"
	Chromate (Z-322)	-	-	"
	M.E.A. Dow Corning Fluid	-	-	"
	Slurry (Cat Cracked)	-	-	"
	Shell Cutter Stock	-	-	"
	Catalyst HEZ-53	-	-	"
	Shell Blend 100	-	-	"
	Sulfur	Periodically negative respirator used in pulling lines to equipment.	Supplied air respirator used in emergency conditions.	"

HUT-084372

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermaker Maint. - N (cont'd)	Hydrogen	-	-	Respirator not required for evacuation.
	Naphtha	-	-	"
	Nickel Moly Catalyst	Periodically negative respirator used in pulling lines to equipment.	Supplied air respirator used in emergency conditions.	"
	Light Gasoline	-	-	"
	Phenol	Periodically negative respirator used in pulling or working on equipment.	Supplied air respirator used in emergency conditions.	"
	Cutter Stock	-	-	"
	Extract Bright Stock	-	-	"
	Extra Heavy Gas Oil Ex. Distilling	-	-	"
	DA Oil	-	-	"
	Asphalt	-	-	"
	MEK	Periodically negative respirator used in working on exchangers.	Supplied air respirator used in emergency conditions.	"
	Cumene Hydroperoxide	"	"	"

HUT-084373

DPMC-10435

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermaker Maint. - N (cont'd)	Butadiene	Periodically negative respirator used in working on exchangers.	Supplied air respirator used in emergency conditions.	Respirator not required for evacuation.
	Epichlorohydrin	"	"	"
	Ethyl MMT (Ethyl)	-	"	"
	Gasoline, Pyrolysis	-	"	"
	MT8E (methyltertiary butylether)	-	"	"
	Brine Water	-	-	"
	Caton Resin	-	-	"
	Anton Resin	-	-	"
	Sodium Sulfite	-	-	"
	Lime	-	-	"
	Chlorine*	-	Scott Air Pak used in emergency conditions.	"
	VM&P	Periodically neg. respirator used when working on equipment.	Supplied air respirator/ SCBA used in emergency conditions.	"
	Catalyst 344	-	-	"
	Mercaptans	Periodically neg. respirator used when working on equipment.	Supplied air respirator/ SCBA used in emergency conditions.	"

HUT - 084374

SMISC00003649

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermaker Maint. - N (cont'd)	Phenol (Heavy Ends)	-	Supplied air respirator/ SCBA used in emergency conditions.	Respirator not required for evacuation.
	Acetic Acid	-	"	"
	Anhydrous Ammonia*	Periodically neg. respirator used in working on equipment.	"	"
	Sulfuric Acid		-	"
	Gasoline, Regular Grade	-	-	"
	Sodium Chromate	-	-	"
	Shell Sol B	-	-	"
Pipefitters Maint. - N	Phenol	Periodically neg. respirator used in working on equipment.	Supplied air respirator/ SCBA used in emergency conditions.	"
	Raffinate Bright Stock	-	-	"
	HVI-250 Dist.	-	-	"
	OP II Gas Oil	-	-	"
	Benzene	Periodically neg. respirator used in breaking pipe loose and on shutdowns.	Supplied air respirator/ SCBA used in emergency conditions.	"
	Toluene	"	"	"
	Hydrogen Sulfide*	"	"	"

HUT - 084375

SMISC00003650

DPMC-10437

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Pipefitters Maint. - N (cont'd)	DEA (Diethylamine)	Periodically neg. respirator used in breaking pipe loose and on shutdowns.	Supplied air respirators/ SCBA used in emergency conditions.	Respirator not required for evacuation.
	Epichlorohydrin	-	"	"
	Ethyl MMT (Ethyl)	-	"	"
	Gasoline, Pyrolysis	-	"	"
	Ammonia	-	Scott Air Pak used in emergency conditions.	"
	Phenol Heavy Ends*	Periodically (1X/mo.) neg. respirator used in working on equipment.	"	"
	Acetic Acid	-	-	"
	Anhydrous Ammonia	Periocally neg. respirator worn when working on equipment.	Scott Air Pak used in emergency conditions.	"
	Sulfuric Acid	-	-	"
	Gasoline, Regular Grade	-	-	"
	VM&P	-	-	"
	Xylene	-	-	"
	Brine Water	-	-	"
	Caton Resin	-	-	"
	Anton Resin	-	-	"

HUT-084376

SMISC00003651

DPMC-10438

MAINTENANCE - OPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Pipefitters Maint. - N (cont'd)	Sodium Sulfite	-	-	Respirator not required for evacuation.
	Lime	-	-	"
	LVI - 65 Dist.	-	-	"
	DA-Oil	-	-	"
	Asphalt	-	-	"
	MEK	Periodically negative respirator used in working on equipment.	Scott Air Pak used in emergency conditions.	"
	LVI Blended Flux	-	-	"
	Dutrex 726	-	-	"
	Acetone	-	Scott Air Pak used in emergency conditions.	"
	Chlorine	-	"	"
	Cumene Hydro-* peroxide	Periodically supplied air respirator (1X/Qtr.) used in working on equipment.	"	"
	Cumene	Periodically neg. respirator used in working on equipment.	"	"
	Phenol	"	"	"
	Shell 618 Catalyst	-	-	"
	Slurry (Cat Cracked)	-	-	"

HUT - 084377

SMISC00003652

DPMC-10439

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Pipefitter Maint. - N (cont'd)	Catalyst CBZ-1	-	-	Respirator not required for evacuation.
	Shell Cutter Stock	-	-	"
	Ethyl Mercaptan*	Periodically supplied air respirators used in piping line or shutdown.	Supplied air respirator/ SCBA used in emergency conditions.	"
	Sulfur	"	"	"
	Kerosene	-	-	"
	Nickel Moly Catalyst	-	Supplied air respirator/ SCBA used in emergency conditions.	"
	Sour Gasoline	-	"	"
Machinist Maint. - N	Sulfur	-	-	"
	Hydrogen Sulfide	Periodically neg. respirator worn while working on equipment. Frequency varies.	Supplied air respirator/ SCBA used in emergency conditions.	"
	Benzene	"	"	"
	Toluene	"	"	"
	MEK	"	"	"
	Shell Sol 100	-	-	"
	Rigid Nu-Clear Cutting Oil	-	-	"
	LPS 1,2,3 Cleaner	-	-	"

HUT - 084378

SMISC00003653

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Machinist Maint. - N (cont'd)	Neverseez Pure Nickle Special Nuclear Grade	-	-	Respirator not required for evacuation.
	Mercaptans	-	-	"
	Potassium Chromate	-	-	"
	Sulfuric Acid	-	-	"
	Acetic Acid	-	-	"
	Anhydrous Ammonia	-	-	"
	Caustic	-	-	"
	Slick Stuff No. 4	-	-	"
	Shell Blend 100	-	-	"
	Xylene	Periodically neg. respirator.	Scott Air Pak used in emergency conditions.	"
	Ammonia	-	"	"
	CCU Slurry Oil	-	-	"
Electrician/Lineman Maint. - N	Benzene	-	Scott Air Pak used in emergency conditions.	"
	Toluene	-	-	"
	Xylene	-	-	"
	Hydrogen Sulfide	Periodically neg. respirator worn while working on equipment.	Scott Air Pak used in emergency conditions.	"

SMISC00003654

DPMC-10441

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Electrician/Lineman Maint. - N (cont'd)	LPS 1,2,3	-	-	Respirator not required for evacuation.
	Sol-149	-	-	"
	CRC-Co. Contact Cleaner	-	-	"
	CRC 3-26 Multi Purpose Cleaner	-	-	"
	Acetic Acid	-	-	"
	Chlorine	-	Scott Air Pak used in emergency conditions.	"
	No. 2 Fuel Oil	-	-	"
	Shell Blend 100	-	-	"
	Lead Tin Solder	-	-	"
	LPS 1,2,3 Rust Inhibitor	-	-	"
	Co. Contact Cleaner (CRC)	-	-	"
	CRC-3-26 Multi Purpose Lubricant	-	-	"
	WD-40 Simple Spray	-	-	"
	Neverseez-Pure Nickle	-	-	"
	Loctite-Safety Solvent	-	-	"

HUT - 084380

SMISC00003655

MAINTENANCE - DPMC

DPMC-10451

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermakers Maint.-S	ECH	Fresh air required when breaking into a line.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	AC	-	"	"
	IPA	Fresh air required if needs arise to enter a piece of equipment that has not been purged of product or when required by operations on the permit.	"	"
	MEK	"	"	"
	DMK	"	"	"
	Chlorine*	Anytime piping is disconnected or a piece of equipment is removed and the operator requires on the permit either full face air supplied or dual cartridge respirator is requested.	"	CA Plant requires Cl_2 mouth bite respirator.
	HCl	"	"	-
	Caustic Soda	"	"	-
	Ethylene Dichloride	"	"	-
	ETPPI	Fresh air or neg. pressure respirator used as determined by work permit.	Scott Air Pak or fresh air stream in plant areas.	Respirator not required for evacuation.

HUT-084390

SMISC00003656

DPMC-10452

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermaker Maint.-S (cont'd)	Nitrogen in System	Fresh air or neg. pressure respirator used as determined by work permit.	Scott Air Pak or fresh air system in plant areas.	Respirator not required for evacuation.
	Glycidol Ethers	"	"	"
	Mercaptans	"	"	"
	BPA	Dust mask as determined by work permit.	"	"
	MIBK	Fresh air or neg. pressure respirator used as determined by work permit.	"	"
	Oxitol	"	"	"
	Epon Resins	May require dust mask.	"	"
	DD	Both neg. pressure and supplied air respirators used.	"	"
	Acetonitrile	"	"	"
	Syn Gas	Occasional use of fresh air respirator when working on equipment.	"	"
	H_2S	"	"	"
	Sulfur	"	"	"
	VCM	"	"	"

HUT-084391

SMISC00003657

DPMC-10453

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Boilermaker Maint. - S (cont'd)	Benzene	Occasional use of fresh air respirator when working on equipment.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Polycyclic Aromatics	-	"	"
	1,3-Butadiene	-	"	"
Pipefitters Maint. - S	Benzene	Fresh air required when blinding L.O. dryers and when changing filters on pyrolysis fractionator.	"	"
	Hydrogen Sulfide*	Fresh air required when turning blinds on H_2S system & when entering flare system.	"	"
	Polycyclic Aromatics	Fresh air required when blinding & opening pyrolysis fractionator, coke filters and strainers.	"	"
	1,3-Butadiene	Fresh air when blinding equipment containing 1,3 BD and ACN.	"	"
	Acetonitrile	"	"	"
	Syn Gas (Co)	Fresh air when blinding or opening any vessels, pumps or columns.	"	"
	Sulfur	"	"	"
	VCM (Site III)	"	"	"

HUT-084392

SMISC00003658

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Pipefitters Maint. - S (cont'd)	ECH	Fresh air required when breaking into a line.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	AC	"	"	"
	IPA	Fresh air required if needs arise to enter a piece of equipment that has not been purged of product or when required by operations on the permit.	"	"
	MEK	"	"	"
	DMK	"	"	"
	Chlorine*	Anytime piping is disconnected or a piece of equipment is removed and the operator requires on the permit either full face air supplied or dual cartridge respirator is requested.	"	CA Plant requires Cl_2 mouth bite respirator.
	HCl	"	"	-
	Caustic Soda	"	"	-
	Ethylene Dichloride	"	"	-
	DD	"	"	-
	MIBK	Fresh air or neg. pressure respirator used as determined by work permit.	Scott Air Pak or fresh air system in plant areas.	Respirator not required for evacuation.

HUT - 084393

SMISC00003659

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Pipefitter Maint. - S (cont'd)	Oxitol	Fresh air or neg. pressure respirator used as determined by work permit.	Scott Air Pak or fresh air system in plant areas.	Respirator not required for evacuation.
	Epon Resins	May require dust mask.	"	"
	ETPPI	"	"	"
	Nitrogen in System	"	"	"
	Glycidol Ethers	"	"	"
	Mercaptans	"	"	"
	BPA	Dust mask as determined by work permit.	"	"
Machinist Maint. - S	Syn Gas	Occasional use of fresh air respirator when working on contaminated equipment.	Scott Air Pak used in emergency situations.	"
	H_2S*	"	"	"
	Sulfur	"	"	"
	VCM	"	"	"
	Benzene	"	"	"
	Polycyclic Aromatics	-	"	"
	1,3 Butadiene	Occasional use of fresh air respirator when working on contaminated equipment.	"	"

HUT - 004394

SMISC00003660

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Machinist Maint. - S (cont'd)	Acetonitrile	Occasional use of fresh air respirator when working on contaminated equipment.	Scott Air Pak used in emergency situations.	Respirator not required for evacuation.
	MIBK	Fresh air or neg. pressure respirator used as determined by work permit.	"	"
	MEK	"	"	"
	Oxitol	"	"	"
	Epon Resins	May require dust mask.	"	"
	ETPPI	"	"	"
	ECH	"	"	"
	Nitrogen in System	"	"	"
	AC	Fresh air required when breaking into a line that has a regulated product.	"	"
	IPA	Fresh air required if needs arise to enter a piece of equipment that has not been purged of product or when required by operations on the permit.	"	"
	IPE	"	"	"
	DMK	"	"	"
	HCl	"	"	"

HUT-084395

SMISC00003661

DPMC-10457

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Machinist Maint. - S (cont'd)	Caustic Soda	Fresh air required if need arise to enter a piece of equipment that has not been purged of product or when required by operations on the permit.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Ethylene Dichloride	"	"	"
	DD	"	"	"
	Glycidol Ethers	Fresh air or neg. pressure respirators may be required.	"	"
	Mercaptans	"	"	"
	BPA Dust	Dust mask as determined by work permit.	"	"
Electrician Maint.- S	Syn Gas	Occasional use of fresh air respirator when working on equipment.	"	"
	H_2S	"	"	"
	Sulfur	"	"	"
	VCM	"	"	"
	PBC (in transformer)	"	"	"
	Benzene	-	"	"
	Polycyclic Aromatics	-	"	"
	1,3-Butadiene	-	"	"
	Acetonitrile	-	"	"

HUT-084396

SMISC00003662

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Electrician Maint. - 3 (cont'd)	ECH	-	Scott Air Pak used in emergency situations.	Respirator not required for evacuation.
	AC	-	"	"
	IPA	-	"	"
	IPE	-	"	"
	MEK	-	"	"
	DMX	-	"	"
	Chlorine	-	"	CA Plant requires Cl_2 mouth bite respirator.
	HCl	-	"	Respirator not required for evacuation.
	Caustic Soda	-	"	"
	Ethylene Dichloride	-	"	"
	DD	-	"	"
	VCM	-	"	"
	MIBK	-	"	"
	Oxitol	-	"	"
	Epon Resins	May require dust mask.	"	"
	ETPPI	-	"	"

HUT-084397

SMISC00003663

DPMC-10459

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Electrician Maint. - S (cont'd)	Glycidol Ethers	-	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Mercaptans	-	"	"
	BPA	-	"	"
Instrument Man Maint. - S	Syn Gas	Occasional use of fresh air respirator when working on contaminated equipment.	"	"
	H_2S*	"	"	"
	Sulfur	"	"	"
	VCM	"	"	"
	Benzene	-	"	"
	Polycyclic	-	"	"
	1,3-Butadiene	-	"	"
	Acetonitrile	-	"	"
	ECH	-	"	"
	AC	-	"	"
	IPA	-	"	"
	IPE	-	"	"
	MEK	-	"	"
	DMK	-	"	"

HUT-084398

SMISC00003664

DPMC-10460

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Instrument Man Maint. - S (cont'd)	Chlorine	Occasional use of fresh air respirator.	Scott Air Pak used in emergency conditions.	CA Plant requires Cl_2 mouth bite respirator.
	HCl	-	"	Respirator not required for evacuation.
	Caustic Soda	-	"	"
	Ethylene Dichloride	-	"	"
	DD	-	"	"
Painters Maint. - S	All chemical plant products	Uses neg. pressure respirator while spray painting.	"	"
Insulator Maint. - S	Asbestos	Use air purifying respirator if possible exposure to asbestos exists.	"	"
Carpenters Maint. - S	Transite	Use air purifying respirator and wet transite while cutting. Dust masks used when sanding or cutting wood.	"	"
Heavy Equipment Operator Medium Equipment Operator Truck Driver Maint. - S	Benzene, as well as other chemical plant products.	Respirator protection may be required when working with contaminated equipment.	Unlikely but possible use of SCBA.	"
	Hydrogen Sulfide	"	"	"
	Polycyclic Aromatics	-	"	"

HUT-084399

SMISC00003665

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Heavy Equipment Operator Medium Equipment Operator	1,3-Butadiene	-	Unlikely but possible use of SCBA.	Respirator not required for evacuation.
Truck Driver Maint. - S (cont'd)	Acetonitrile	-	"	"
Brickmason Maint. - S	All chemical plant products	Respirator may be required in isolated cases (sewer work).	-	"
Riggers (work with pipefitters/ boilermakers in field) Maint. - S	All chemical plant products	Respirator protection may be required when working with contaminated equipment.	Scott Air Pak used in emergency conditions.	"
Welders Maint. - S	All chemical plant products & welding fumes	May be required to use either air supplied or neg. pressure respirator.	"	"
Tinners Maint. - S	All chemical plant products & welding fumes	"	"	"

HUT-084400

SMISC00003666

DPMC-10442

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Electrician/Lineman Maint. - N (cont'd)	Rotanium-Dry Slip	-	-	Respirator not required for evacuation.
	Part East Lubricant #PE-12	-	-	"
	Motor MIC-Antifriction Compound	-	-	"
	Lead	-	-	"
	Minexallac-Wire Wax Pulling Compound	-	-	"
	Allstate-Duzall Soft Soldering Flux	-	-	"
	High Gear Penetrating Oil	-	-	"
Instrument Maint. - N	Safety Clean Solvent	-	-	"
	Anti-Seize 200-Chemala	-	-	"
	Califonex 78-A	-	-	"
	Benzene	-	Supplied air respirators and Scott Air Pak used in emergency conditions.	"
	Toluene	-	"	"

HUT-084381

SMISC00003667

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Instrument Maint. - N (cont'd)	Xylene	-	Supplied air respirators and Scott Air Pak used in emergency conditions.	Respirator not required for evacuation
	Phenol*	Periodically neg. respirator or supplied air respirator required.	"	"
	Hydrogen Sulfide*	"	"	"
	LPS 1,2,3 Contact Cleaner	-	-	"
	Crude ECH	-	Scott Air Pak used in emergency conditions.	"
	Cumene	-	"	"
	MEK	-	"	"
	Gasoline Regular	-	-	"
	Sulfur	-	Scott Air Pak used in emergency conditions.	"
	WD-40 Spray Penetrant	-	-	"
	Super Penetrant-Chemala	-	-	"
	Fuel Gas	-	-	"
	Methane	-	-	"
	Nitrogen	-	-	"

SMISC00003668

DPMC-10444

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Painters Maint. - N	Acetone	-	-	Respirator not required for evacuation.
	Napko 212 Thinner	Neg. pressure make may be used.	-	"
	Napko 218 Epoxy-cote Thinner	-	-	"
	MEK	Neg. pressure mask may be used during spray painting.	-	"
	Toluene	-	-	"
	Apache-Blast Abrasive	Daily Cesco air hood worn as blasting is done.	-	"
	Xylene	-	-	"
	IPA	-	-	"
Carpenters Maint. - N	Dust	Dust mask may be used periodically.	-	"
	Benzene	Neg. or supplied air respirators may be required on special jobs.	Scott Air Pak used in emergency conditions.	"
	Toluene	-	-	"
	Hexane	-	-	"
	Xylene	-	-	"
	Phenol	Neg. or supplied air respirators may be required on special jobs.	Scott Air Pak used in emergency conditions.	"
	Asphalt	-	-	"

HUT-084303

SMISC00003669

DPMC-10445

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Carpenters Maint. - N (cont'd)	Gas Oil	-	-	Respirator not required for evacuation.
	Catalyst HEZ-53	-	-	"
Insulators Maint. - N	Asbestos	Neg. pressure mask during asbestos removal	-	"
	Anhydrous Ammonia	-	-	"
	Hydrogen Sulfide	-	-	"
	Benzene	Periodically neg. respirator used in working with equipment.	Scott Air Pak used in emergency conditions.	"
	Chlorine	-	-	"
	VM&P	-	-	"
	Toluene	Periodically neg. respirator used in working with equipment.	Scott Air Pak used in emergency conditions.	"
	Mercaptans	"	"	"
Auto Mechanic Maint. - N	Refinery Chemicals	Respirators may be required.	"	"
	Bendix Carburetor and Metal Cleaner	-	-	"
	49A Cold Cleaner	-	-	"
	Asbestos Brake Linings	Respirator generally not required.	-	"

HUT-084384

SMISC00003670

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Auto Mechanic Motor Lab/Tank Farm	Benzene (From Gasoline)	Neg. respirator may be required periodically.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Gasoline, Neutral	-	-	"
	Gasoline Regular	-	-	"
	VM&P Naphtha EC	-	-	"
	Xylene	-	-	"
	Tetraethyl Lead (TEL)	-	-	"
Heavy Equipment, Operator	Refinery Chemicals	Neg. pressure mask use possible; exposures have occurred during shutdowns.	Scott Air Pak used in emergency conditions.	"
Medium Equipment Operator	Refinery Chemicals	"	"	"
Truck Drivers	Refinery Chemicals	"	"	"
Riggers Maint. - N	Refinery Chemicals	Both negative and supplied air respirators may be required on certain jobs.	"	"
Tinners Maint. - N	Inorganic Lead	Negative pressure respirator use possible.	-	"

SMISC00003671

DPMC-10447

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Auto Mechanic Motor Lab/Tank Farm	Benzene (From Gasoline)	Neg. respirator may be required periodically.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Gasoline, Neutral	-	-	"
	Gasoline Regular	-	-	"
	VM&P Naphtha EC	-	-	"
	Xylene	-	-	"
	Tetraethyl Lead (TEL)	-	-	"
Heavy Equipment Operator	Refinery Chemicals	Neg. pressure mask use possible; exposures have occurred during shutdowns.	Scott Air Pak used in emergency conditions.	"
Medium Equipment Operator	Refinery Chemicals	"	"	"
Truck Drivers	Refinery Chemicals	"	"	"
Riggers Maint. - N	Refinery Chemicals	Both negative and supplied air respirators may be required on certain jobs.	"	"
Tinners Maint. - N	Inorganic Lead	Negative pressure respirator use possible.	-	"

HUT - 084386

SMISC00003672

DPMC-10448

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Auto Mechanic Motor Lab/Tank Farm	Benzene (From Gasoline)	Neg. respirator may be required periodically.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Gasoline, Neutral	-	-	"
	Gasoline Regular	-	-	"
	VM&P Naphtha EC	-	-	"
	Xylene	-	-	"
	Tetraethyl Lead (TEL)	-	-	"
Heavy Equipment Operator	Refinery Chemicals	Neg. pressure mask use possible; exposures have occurred during shutdowns.	Scott Air Pak used in emergency conditions.	"
Medium Equipment Operator	Refinery Chemicals	"	"	"
Truck Drivers	Refinery Chemicals	"	"	"
Riggers Maint. - N	Refinery Chemicals	Both negative and supplied air respirators may be required on certain jobs.	"	"
Tinners Maint. - N	Inorganic Lead	Negative pressure respirator use possible.	-	"

HUT - 084387

SMISC00003673

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Auto Mechanic Motor Lab/Tank Farm	Benzene (From Gasoline)	Neg. respirator may be required periodically.	Scott Air Pak used in emergency conditions.	Respirator not required for evacuation.
	Gasoline, Neutral	-	-	"
	Gasoline Regular	-	-	"
	VM&P Naphtha EC	-	-	"
	Xylene	-	-	"
	Tetraethyl Lead (TEL)	-	-	"
Heavy Equipment Operator	Refinery Chemicals	Neg. pressure mask use possible; exposures have occurred during shutdowns.	Scott Air Pak used in emergency conditions.	"
Medium Equipment Operator	Refinery Chemicals	"	"	"
Truck Drivers	Refinery Chemicals	"	"	"
Riggers Maint. - N	Refinery Chemicals	Both negative and supplied air respirators may be required on certain jobs.	"	"
Tinners Maint. - N	Inorganic Lead	Negative pressure respirator use possible.	-	"

SMISC00003674

MAINTENANCE - DPMC

RESPIRATOR USE REQUIREMENTS

Job Category	Primary Exposure	Routine Use	Emergency Control	Evacuation
Welders Maint. - N	Chrome (fumes)	Both negative and supplied air respirators required under some welding conditions.	-	Respirator not required for evacuation.
	Stainless Steel (fumes)	"	-	"
	Carbon Steel (fumes)	"	-	"
	Refinery Chemicals	"	Scott Air Pak used in emergency conditions.	"
Surveyors Maint. - N	Refinery Chemicals	Respirator use a possibility but potential for use is low.	"	"

SMISC00003675