

SOUTHWESTERN REFINING NEW EMPLOYEE ORIENTATION/TRAINING

EMPLOYEE _____ CONTRACT _____

DATE _____ HOURS NEEDED _____

TRAINING PROGRAMS

N	C	S		N	C	S	
[]	[]	[]	PLANT SAFETY HANDBOOK	[]	[]	[]	H2S AWARENESS
[]	[]	[]	PLANT TOUR	[]	[]	[]	SCOTT AIR PACK
[]	[]	[]	TERMINAL TOUR	[]	[]	[]	HAZWOPER AWARENESS
[]	[]	[]	RESPIRATORY & FIT TEST.	[]	[]	[]	BENZENE AWARENESS
[]	[]	[]	EYE SAFETY	[]	[]	[]	FIRE EXTINGUISHER
[]	[]	[]	"NATURE OF PETROLEUM"	[]	[]	[]	CONTRACTOR SAFETY
[]	[]	[]	DEFENSIVE DRIVING	[]	[]	[]	HAZARD COMM.
[]	[]	[]	EEOC REV. & TEST	[]	[]	[]	HEARING CONSERV.
[]	[]	[]	HAZARDOUS AREA TOUR	[]	[]	[]	HF ACID AWARENESS
[]	[]	[]	CONTROL ROOM TOUR	[]	[]	[]	ASBESTOS AWARENESS
[]	[]	[]	WASTEWATER TOUR	[]	[]	[]	SAFETY ORIENTATION
[]	[]	[]	FIREPUMP LOCATION	[]	[]	[]	SHOP AREA TOUR

NAME _____
AREA OF ASSIGNMENT _____CLASSIFICATION _____
INSTRUCTOR _____I HEREBY ACKNOWLEDGE MY PARTICIPATION IN THE ABOVE TRAINING COURSE(S):
SIGNATURE _____ DATE _____COMMENTS: _____
_____N - NEEDED TRAINING
C - COMPLETED TRAINING
S - SCHEDULED TRAINING

TRAINING & DEVELOPMENT

MIKE BLUNDELL

1A 173246

SWRf/Asbestos 7547

<u>Controlled Substance</u>	<u>OSHA Standard</u>	<u>Location</u>	<u>Monitoring</u>	<u>Frequency</u>	<u>Pump Flowrate</u>	<u>Collection Medium</u>
Dust, Respirable Nuisance	5.0mg/M ³	Landfarm	P-full shift	Annually	1.7 LPM	Cyclone PVC filter 0.8µ
Heavy Metals*		Landfarm	" " "	" " "	2.0 LPM	Membrane filter 0.8µ (MCEF)

CD:ah
2/26/87

* TO BE DETERMINED USING ETC ANALYSIS DATA

INDUSTRIAL HYGIENE MONITORING PROGRAM
SOUTHWESTERN REFINING COMPANY

1987

Controlled Substance	OSHA Standard	Location	Monitoring	Frequency	Pump Flowrate	Collection Medium	P-PERSONNEL A-AREA
Asbestos	8-TWA = .2 fibers/cc	Insulation removal containing Asbestos	P-full shift	Each occurrence	1.5 LPM max. vol 240 liters	Membrane filter 0.8u AA (MCEF) Open Face 25 MM cassette w/50 extension cowl	
Benzene	8-TWA = 10 ppm	Crude I & II Units BRX Unit 4/5/87 Platformer Unit 7/30/87 Sulfolane Unit 4/5/87, 5/3/87, 7/30/87	P-full shift STEL-15 min.	Annually	0.1-0.2 LPM max. vol 10 liters	Activated charcoal	
Carbon Monoxide	8-TWA = 50 ppm STEL = 400 ppm	Compressor House Knock Engine Room Vehicle Maintenance Bays Air Comp. @ Sandblast yard	A-Grab	As Needed	Follow manufacturer's Specifications	Detector Tube: Draeger CH25601 (5-700 ppm) Direct Reading-Ecolyzer	
Hydrogen Fluoride	8-TWA = 3 ppm STEL = 6 ppm 40 min max 3 ppm	Alkylation Unit CMB Pit (Alky Unit) 1-20/87 6-10/87 2-17/87 6-20/87 4-14/87 5-19/87 5-21/87	P-full shift STEL-15 min.	Annually	1.0 LPM max. vol 120 liters	Membrane filter 0.8u (MCEF) with backup pad treated with alkaline fixative solution (Dissolve 25g sodium carbonate in water, add 20 ml glycerol, and dilute to 1 liter)	
Hydrogen Sulfide	8-TWA = 10 ppm STEL = 15 ppm "C" = 20 ppm	2-27/87 Sample draw locations with potential H2S Area Sample Sulfur Complex (Long Duration) 11/1/87 Compressor House	P-full shift A-Grab	Annually	0.1-0.1 LPM max. vol 2 liters	Midget Impinger with 10 ml of cadmium sulfate Detector tubes: Draeger-67-19001 (1-200 ppm) Draeger-CH-29101 (100-2000 ppm) Draeger-CH-28101 (0.2-7 vol%) Draeger-67-28141 (5-60 ppm)	

SWRf/Asbestos

7552

1B 001252

<u>Controlled Substance</u>	<u>OSHA Standard</u>	<u>Location</u>	<u>Monitoring</u>	<u>Frequency</u>	<u>Pump Flowrate</u>	<u>Collection Medium</u>
Iron Oxide Fume	8-TWA = 10 mg/M ³	Welding Operations	P-full shift	Annually	2.0 LPM max. vol = 960 liters	Membrane filter 0.8 AA (MCEF)
Chromium (metals & insoluble salts)	8-TWA = 1.0mg/M ³	Welding Operations Rods - Arcaloy 310 McKay E309 310 CB16	P-full shift	Annually	2.0 LPM max. vol. = 960 liters	Membrane filter 0.8 AA (MCEF)
Nickel (metal & soluble) compounds)	8-TWA = 1.0mg/M ³	Welding Operations Rods - Arcaloy 310 McKay E309, 310 CB16	P-full shift	Annually	2.0 LPM min. vol = 200 liters max. vol = 960 liters	Membrane filter 0.8 AA (MCEF)
Toluene	8-TWA = 200 ppm "C" = 300 ppm	See Benzene	P-full shift STER-15 min.	Annually	0.1-0.2 LPM max. vol=10 liters	Activated charcoal
Xylene	8-TWA = 100 ppm	See Benzene	P-full shift	Annually	0.1-0.2 LPM max. vol= 10 liters	Activated charcoal
MTBE 1-200-877 4-29-87 A 400000 141 Tank		Barges	P-full shift	Annually	0.1-0.2 LPM max. vol = 20 liters	Activated charcoal
Noise 1-14-87 2-11-87 2-12-87	8-TWA = 90 dBA Action level = 85 dBA	Throughout Facility	P-full shift (noise dosimeters) A-Grab (sound level meter A-scale slow response) A-Grab	Bi-Annually (Subsequent to process or engineering change)		Noise Dosimeter sound level
Heat 3-27-87 7-30-87 8-7-87		Throughout Facility		Each occurrence		WBGT

<u>Controlled Substance</u>	<u>OSHA Standard</u>	<u>Location</u>	<u>Monitoring</u>	<u>Frequency</u>	<u>Pump Flowrate</u>	<u>Collection Medium</u>
Dust, Respirable Nuisance	5.0mg/M ³ 9-4-17 8-3-17	Landfarm	P-full shift	Annually	1.7 LPM	Cyclone PVC filter 0.8µ
Heavy Metals*	3-16-17 4-4-17 4-5-17 4-23-17 8-3-17	Landfarm	" " " "	" " " "	2.0 LPM	Membrane filter 0.8µ (MCEF)
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