



55#
P. 1000

Conoco Chemicals Company
A Division of Conoco Inc.
5 Greenway Plaza East
P.O. Box 2197
Houston, TX 77001

February 9, 1981

Geraldine Goodstone
Health Examinations
709 Westchester Avenue
White Plains, NY 10604

Dear Geraldine:

In order to meet the medical surveillance requirements of the OSHA Vinyl Chloride Standard, two physicals are required annually for certain employees. However, the periodic examination requirements are limited in scope in comparison to the normal exam content offered all other employees. The requirements for this physical are listed in Attachment I. This protocol currently applies to the Lake Charles VCM Plant and the Aberdeen Chemical Plant.

The Aberdeen Plant also handles lead compounds and is subject to the OSHA Lead Standard. To meet the medical surveillance requirements of this standard periodic physicals are also required for some individuals. These requirements are also in Attachment I.

The Baltimore Chemicals Plant does urinary phenols and blood chemistries on a six month interval for individuals exposed to benzene. In the past this has been done with a local laboratory. However, we would now like to have this done by Met-Path to maintain quality control and assure computer compatibility with our other medical testing results. The tests required at Baltimore are in Attachment II.

To do this testing, I think it is obvious that a van would not be required. Therefore, I would request that you make available the necessary personnel, nurses, technicians, etc., to accomplish this, at a mutually agreed upon price. The testing at these locations would be scheduled similar to the testing at other times of the year.

Please Let me know if you have questions concerning this subject.

Sincerely,

Thomas G. Grumbles, Director
Industrial Hygiene

CCR 000000306

ajo

Attachments

cc W W Massad

SCREENING PROTOCOL FOR PERIODIC VCM EXAMINATIONS

Occupational & Exposure Histories

Physical Examination

Blood Chemistries (see Attachment III)

Hematology (see Attachment III)

Complete Urinalysis w/Microscopic

Health Status Report

The periodic exam at Aberdeen will include all of the above as well as Blood Leads on identified individuals with Lead exposure.

Attachment II

SCREENING PROTOCOL FOR PERIODIC BENZENE EXAMINATIONS

Interm Medical History

Interm Exposure and Work History

Laboratory Studies (to include blood work and urinary
phenols -- see Attachment IV)



Health Examinetics

Physical Exam to include
I HT. WT. BP
II *Interim medical History*
III *Interim exposure & work history*

Attachment I/1

RECEIVED

DEC 1 1 1983

MEDICAL DIV.

TEST	TEST RESULT	REFERENCE RANGE
BLOOD CHEMISTRY:		
CALCIUM	9.7 MG/DL	8.8 - 10.6 MG/DL
PHOSPHORUS	3.5 MG/DL	2.0 - 4.8 MG/DL
BUN	16.0 MG/DL	9.0 - 25.0 MG/DL
CREATININE	1.4 MG/DL	.7 - 1.6 MG/DL
BUN/CREATININE	11.4	
URIC ACID	5.1 MG/DL	2.7 - 8.8 MG/DL
GLUCOSE	101.0 MG/DL	65.0 - 130.0 MG/DL
TOTAL PROTEIN	7.3 GM/DL	6.2 - 8.1 GM/DL
ALBUMIN	4.4 GM/DL	3.8 - 5.1 GM/DL
ALBUMIN/GLOBULIN	1.5	
TOTAL BILIRUBIN	.99 MG/DL	.10 - 1.40 MG/DL
DIRECT BILIRUBIN	.23 MG/DL	.00 - .40 MG/DL
SGOT	16.0 I.U./L	.0 - 45.0 I.U./L
SGPT	29.0 I.U./L	.0 - 60.0 I.U./L
ALK PHOSPHATASE	19.0 I.U./L	10.0 - 45.0 I.U./L
LDH	179.0 I.U./L	100.0 - 240.0 I.U./L
CHOLESTEROL	269.0 MG/DL	125.0 - 275.0 MG/DL
IRON	100.0 MCG/DL	60.0 - 200.0 MCG/DL
SODIUM	138.0 MMOL/L	135.0 - 146.0 MMOL/L
POTASSIUM	4.3 MMOL/L	3.6 - 5.3 MMOL/L
CHLORIDE	104.0 MMOL/L	97.0 - 109.0 MMOL/L
GGTP	8.0 I.U./L	.0 - 65.0 I.U./L
TRIGLYCERIDES	131.0 MG/DL	50.0 - 220.0 MG/DL
HEMATOLOGY:		
WHITE BLOOD COUNT	6.3 THOUSAND	4.1 - 11.5 THOUSAND
RED BLOOD COUNT	4.91 MILLION	4.40 - 6.00 MILLION
HEMOGLOBIN	15.3 GM/DL	13.5 - 17.8 GM/DL
HEMATOCRIT	50.3 %	42.5 - 58.0 %
MCH (CALCULATED)	31.2 UUG	27.5 - 35.0 UUG
MCHC (CALCULATED)	30.4 %	29.5 - 35.0 %
POLY	3465 CU. MM (55.0%)	1650 - 6330 CU. MM
LYMPHOCYTES	1903 CU. MM (30.2%)	1049 - 3521 CU. MM
MONOCYTES	491 CU. MM (7.8%)	61 - 929 CU. MM
EOSINOPHILS	359 CU. MM (5.7%)	40 - 423 CU. MM
BASOPHILS	82 CU. MM (1.3%)	10 - 148 CU. MM
PLATELET COUNT	255.0 THOUSAND	140.0 - 440.0 THOUSAND
RETICULOCYTES	.30 %	.20 - 2.50 %

CCR 000000309

DRAWN 9.5 HOURS AFTER EATING. RESULT MAY BE FALSELY ELEVATED UNLESS THE INDIVIDUAL HAS FASTED 12 HOURS (TRIGLYCERIDES).
RANGE BASED ON 75TH CUMULATIVE PERCENTILE.
VALUE OUTSIDE REFERENCE RANGE.
CLINICAL LABORATORY TESTS PERFORMED BY METRATH



Health Examinetics

Attachment III

RECEIVED

DEC 1 1 1990

MEDICAL DIV.

TEST	TEST RESULT	REFERENCE RANGE
URINALYSIS:		
BLOOD	NEGATIVE	NEGATIVE OR TRACE
PROTEIN	NEGATIVE	NEGATIVE OR TRACE OR +
GLUCOSE	NEGATIVE	NEGATIVE OR TRACE
PH	6	4 - 8
KETONES	NEGATIVE	NEGATIVE OR TRACE
SPECIFIC GRAVITY	1.018	1.001 - 1.035
APPEARANCE	CLEAR	
WBC	NEGATIVE	0 - 5 /HPF
RBC	NEGATIVE	0 - 2 /HPF
CASTS	NEGATIVE	NEGATIVE
BACTERIA	NEGATIVE	
EPITHELIA	NEGATIVE	
CRYSTALS	NEGATIVE	
YEAST	NEGATIVE	

~~S. SL FOR OCCULT BLOOD: TEST NOT PERFORMED~~

~~CHEST X-RAY: REFUSED~~

~~ELECTROCARDIOGRAM:~~
~~NO APPARENT ABNORMALITY~~

CCR 000000310

4/24/88 4/29/88 167046

LAB TEST	RESULTS	NORMALS
CONOCO PHYSICAL		
COMPLETE BLOOD COUNT		
WHITE BLOOD CELL COUNT-----	8800	4,800-10,800 /CMM
RED BLOOD CELL COUNT-----	4.50	M:4.6-6.2, F:4.2-5.4 M/CMM
HEMOGLOBIN-----	12.7	M:14-18, F:12-16 GM/DL
HEMATOCRIT-----*	36	M:42-52, F:37-47 VOLS%
MCH-----	28	27-32 UUG
MCV-----*	80	82-97 MICRONS
MCHC-----	35	32-36 %
DIFFERENTIAL		
SEGMENTED NEUTROPHILS-----	66	51-67 %
BANDS-----	4	3-5 %
LYMPHOCYTES-----	27	21-35%
MONOCYTES-----	3	4-8%
EOSINOPHILS-----	0	2-4%
BASOPHILS-----	0	0-1%
OBSERVATIONS-----	----->	RBC MORPHOLOGY NORMAL
RETICULOCYTE COUNT-----	1.1	0.5-2.0%
PLATELET COUNT-----	311000	150-450 K/CMM
BILIRUBIN-TOTAL-----*	1.7	0-1.5 MG/DL
URINARY PHENOL-----	5	
CORRECTED TO SP.G. OF 1.024-	10	IND. EXP. LESS THAN 75
URINALYSIS ROUTINE		
REACTION (PH)-----	7	0-6 ACID, 8-14 ALKALINE
SPECIFIC GRAVITY-----	1.012	1.003 - 1.030
ALBUMIN-----	NEG	
SUGAR-----	NEG	
ACETONE-----	NEG	
OCCULT BLOOD-----	NEG	
MICROSCOPIC-----	----->	CL YELLOW NEG

PHYSICIAN'S COPY

CCR 000000311