

FILE NAME: Westinghouse (WH)

DATE: 1952-1967

DOC#: WH142

DOCUMENT DESCRIPTION: Barry Castleman Notes on Sharon, PA with Documents

OPERATION	HAZARD	CONTROL MEASURE
Welding Z:	Stray Radiation	Shielding - Remote control
arc welding of welds.	(X-ray)	Personnel records, film
250 kVp, 20 mA - X-ray		Badges, Distance from source
unit.		to other workers.
Medical dispensary:	Stray Radiation	Same as above
Fluoroscopic X-ray use	(X-ray)	
Park Shop:	Iron oxide fumes	High ceilings
arc welding regular	Ozone	Exhaust fan at ceiling
steel	Carbon Monoxide	Welding shields
	Oxides of nitrogen	Gloves, Protective clothing
	Ultra Violet light	
	Fluoride fumes	
arc welding stainless	Same as arc welding	Same as arc welding regular
steel	regular steel but	steel
	including	
	Nickel Carbonyl	
Grinding of welds	Iron oxide dust	General air dilution
	Silicon carbide dust	Ear defenders
	Noise	
Shot blasting	Steel dust	Enclosed booth exhaust
		ventilation. Air supplied
		blasting hoods. Protective
		clothing.
Paint spraying	Paint pigment mist	Exhaust ventilated booth
	Xylol vapors	Respirators, gloves.
	Dermatitis (Xylol contact)	
Plating of Metals		
Metal surface preparation	Caulic mist	Local exhaust side slot
	Trichloroethylene vapor	Water cooler
	Sulphuric acid mist	Local exhaust
	Nitric acid mist	Local exhaust
	Oxides of nitrogen	Local exhaust
	Phosphoric acid mist	Local exhaust
	Sodium cyanide mist	Local exhaust
	Cadmium salt mist	Local exhaust
	Dampness	Protective clothing
	Water mist	General air dilution
Chrome plating	Chromic acid mist	Local exhaust ventilation
	Dermatitis	Plastic disc on surface
	(acid contact)	Respirators, gloves,
	Dampness	protective clothing
Acetylene oxyac.	Heat	General ventilation
oil dip in	Oil mist	General ventilation

(Continued)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HEALTH
DIVISION OF OCCUPATIONAL HEALTH

PLANT INFORMATION RECORD
Stock No. 5258.3

PLANT Westinghouse Electric Corporation
Materials & Process Development Dept., Power Transformer Division
ADDRESS 469 Sharonville Avenue
Sharon, Pennsylvania 16146

AREA CODE 814-981-1611
PHONE NO.

EMPLOYEES 52

PRODUCT OR SERVICE Process development & routine testing of incoming materials*

PERSON INTERVIEWED Mr. Harry Sheppard, Manager

PHYSICIAN Dr. J. F. Coyne, M.D., Full time at plant

DENTIST None

NURSE 6 nurses full time at plant dispensary. 24 hour coverage, all R.N.'s

SAFETY SUPERVISOR Mr. James McGliman, Safety Supervisor

INDUSTRIAL HYGIENIST W. Speicher, Westinghouse Electric, Pittsburgh

INSURANCE CARRIER Self insured

LEGAL OWNER Corporation, Westinghouse Electric Company, Pittsburgh

RECOMMENDATIONS None

REMARKS *The plant also has a quality control department. Periodic visits by Industrial Hygienists from Westinghouse. Accompanied by Mrs. Sandy Wolfgang; Mr. Sheppard and his section chief all had scheduled meetings. Did speak to individual room supervisors on operations. No radiation or radioactive materials in this department. Be alloys handled on occasion. However, this consists of bending and shaping contacts. No operation performed on Be alloy which could

produce a particulate. Preplacement and periodic physicals performed on research personnel includes x-rays. Asbestos has been tried as an insulating filler on the resins. However, asbestos does not have sufficient electrical

TYPE OF VISIT Inspection

DATE 2/6/67

R. T. Richards

(See attached sheet)

LIST HAZARDS AND CONTROL MEASURES ON REVERSE SIDE

Electrical Lab:

Electrical testing of transformers none apparent

Machine Shop:

lathes; milling; drilling Various ferrous & non-ferrous metal dusts; GPV, occ. exp.

polyethylene, Teflon & nylon dusts; cutting oil mist & decomposition products

Stand & surface grinding Be alloy shaping

Metal & Al₂O₃ dusts
Be - Cu dust

GPV & occ. exp.
GPV, occ. exp., see remarks

Electrical Insulator & transformer life testing

None apparent

Separate rooms

Paint Lab: Corrosion testing

Spray painting

Misc. pigment mists; toluene, xylene, MEK, MIBK and acetone vapors

LEV hood
occ. exp.

Westinghouse Electric Company, Sharon, Pennsylvania

Remarks (continued)

*Material: Phenolic Resin
469 Phenolic Resin (Sharon)*

Insulating properties so silica is used mostly. This department does no research, but rather process development from techniques developed at research center in Pittsburgh. Isocyanate and p-lyurethanes not presently used for insulating but may be on the way in.

Operation

Hazard

Control Measure

Resin Lab:

Mixing, molding & curing

epoxy's, melamines;
ureas - vapors & mists
dermatitis
toluene vapor

lab hood for mixing,
enclosed and exhausted
ovens for curing,
labelled safety cans
for solvent storage,
personal hygiene and
gloves.

Chemical Lab: Mixing and process testing of resins

Mixing

do

lab hoods, personal
hygiene, gloves

Hot chemical analysis

Various dusts, vapors,
mists and fumes

ODT, lab hoods

Westinghouse Electric Company, Sharon, Pennsylvania

<u>Operation</u>	<u>Hazard</u>	<u>Control Measure</u>
Salt spray	NaCl mist	Enclosed
Weatherometer	UV, O ₃ , N ₂ O, IR CO, CO ₂	Enclosed GDV, occ. exp.
Acid & Alkali dip	less than 1% acid & alkali mists dermatitis	GDV, occ. exp., automatic dipping, personal hygiene
Welding Lab:		
Arc & Mig welding	Fe ₂ O ₃ & Cu fume, CO, CO ₂ , UV, O ₃ , N ₂ O, IR heat	LEV hood, Face shield and protective clothing, occ. exp.
Acetylene welding	Fe ₂ O ₃ , fume, CO, CO ₂ heat, IR	LEV hood, goggles, occ. exp.
Brazing	Cu fume, CO, CO ₂ , heat IR, "Handy Flux" - mist (Handy Harmon Co.) (N.Y., N.Y.)	do.
Pilot Plant: Used by all sections		
Hot & cold testing of bushings	Heat, cold, IR	Ovens enclosed and exhausted, cold units are deep freeze type (no entrance possible)
Belt sanding	Metal & S.C. dusts	LEV - air recirculation, installed prior to 1961, occ. exp.
Resin mixing, degassing & vacuum molding	Epoxy resins of all types, silica fillers, anhydride type curing agents, some amine curing agents, dermatitis	All enclosed & exhausted, USBM dust respirators #2166 for weighing and handling dusty materials, gloves, skin creams & personal hygiene
Steel cutting - nibbler	Fe dust	GDV, occ. exp.
Salt spray testing	NaCl mist	Enclosed
Annealing furnace (N ₂ O & H ₂ atmosphere)	Fe fume, CO, CO ₂ , H ₂ H ₂ , heat, IR	Enclosed and exhausted Occ. exp.