

FILE NAME: Reynolds Metals (RM)

DATE: 1984 Apr 30

DOC#: RM103

DOCUMENT DESCRIPTION: Internal Memo - Asbestos Survey with
Data

Shewin Plant:
Land fill. A
prods. that
are on stock
& not needed

Still some A
prod. use
at plant
1984

INTRACOMPANY CORRESPONDENCE

R-98 (Rev. 1-58)

FROM:	Ronald E. Benton - Industrial Hygiene-COB-LL	R. G. Burton - CENTRAL ENGR.-EXO-LL
TO:	DAVID V. HOPKINS - SHERWIN	
COPY:	E. L. Sweet, Sherwin; R. H. Featherston, A.D. Reynolds, R. W. Winstead, P. R. Laden, W. A. Wright, E. C. Irby, EXO	
DATE & SUBJECT:	April 30, 1984	ASBESTOS SURVEY SHERWIN ALUMINA PLANT

In the early 1970's Reynolds Metals Company instituted a program to remove all non-essential asbestos-containing products from our manufacturing facilities. Although this program has been quite successful, several areas still remain where asbestos is currently being used. Consequently, the Medical Department, along with Central Engineering, has begun a final effort to eliminate all inhalation exposure to asbestos. In order to accomplish this goal, all asbestos-containing products which have feasible substitutes will be eliminated from RMC facilities. Where there are no feasible substitutes, appropriate work practices will be developed, so that there will be no inhalation exposure to asbestos while using the product.

As part of this effort, the Sherwin Alumina Plant was visited on November 7-9, 1983, to evaluate the plant's use of asbestos. During this audit, those asbestos-containing products in inventory were identified, as well as those already in place or currently being used by the plant.

Results of this survey indicate that the Sherwin Plant has made considerable progress in eliminating the use of asbestos-containing products. The audit, however, revealed several areas which need additional attention.

First, those asbestos-containing products currently being used by the plant were identified. Given the nature of several of these products, it was determined that a potential exposure to asbestos may exist due to the products' application and/or condition. In addition, several of the products presently being used have feasible substitutes which are readily obtainable. Consequently, it is our recommendation that the plant should remove these items from use and substitute a non-asbestos product. Table 1 lists each of these products, as well as potential substitutes. Where possible, the plant should return its current inventory of these items for credit. If this is not feasible, then the plant should stock only those items necessary, until the substitutes have been obtained. The remaining asbestos-containing products should be placed in labeled, sealed plastic bags and disposed of in an approved sanitary landfill. Contact the Environmental Control Department for information on proper disposal procedures and approved landfills.

Second, fifty-four (54) bulk samples of material already in place or currently being used were collected and screened for asbestos. In addition, a number

See part - 11

003635

A. scrap
lying out
should be
cleaned up
ASAP

A gaskets
still being
used

April 30, 1984

- 2 -

of products were positively identified during the audit as containing asbestos (Appendix II and III). Based on these results, Table 2 was developed, identifying the various applications of products found to contain asbestos. It should be noted that, for those products already in place (e.g. intact pipe insulation, transite hood liners, etc.), the presence of undamaged, non-friable asbestos does not represent an exposure hazard. Consequently, there is no requirement to remove those types of products from the plant. If, however, work is performed on any of these products (e.g. demolition or repair), then non-asbestos substitutes should be utilized, where available, and appropriate work practices followed to eliminate employee exposure to asbestos (Appendix IV). Where damaged insulation represents an exposure hazard, due to its contact with workers or ability to release fibers into the atmosphere, the damaged insulation should be repaired or replaced with non-asbestos substitutes. The non-asbestos substitutes should be color coded (e.g., Reynolds blue) and accurate records kept to prevent the need for expensive and unnecessary controls during future work. Due to the many disadvantages and continuing expense of encapsulation, this is not a recommended control method for most loose or damaged insulation. In certain situations, enclosure of existing asbestos pipe or duct insulation with a lagging material may be an acceptable control method. Please contact the Industrial Hygiene Department for specifics. If work is performed on an item not listed in Tables 1 or 2, it should be handled as asbestos, until appropriate analytical results can be obtained. Consequently, all such material should be treated as asbestos, unless otherwise indicated. It should be noted that many areas of the plant had new non-asbestos insulation adjacent to or mixed with old asbestos material, thereby, making it extremely difficult to separate one from the other.

Third, in several areas of the plant, scrap insulation material was noted laying on the ground, thereby, being susceptible to becoming airborne, by people walking or mobile equipment driving through it. Consequently, all scrap material should be cleaned up as soon as possible and disposed of in accordance with applicable waste disposal regulations.

Fourth, asbestos gaskets were being used throughout the plant for pipe and pump seals and joints. Due to the presence of high pressure and temperature acids and caustics, however, asbestos gasket material is currently the only feasible product. Therefore, the plant should continue using these materials and follow the appropriate work practices to minimize employee exposure to asbestos. Again, all scrap material should be disposed of in accordance with applicable waste disposal regulations.

See previous pages for details

003636

ASBESTOS SURVEY
SHERWIN PLANT

- 3 -

April 30, 1984

Finally, in order to accomplish the objectives of this program and to ensure its continued effectiveness, it is recommended that someone at the Sherwin Alumina Plant be designated as contact person. In this regard, that individual would receive and disseminate information concerning non-asbestos substitutes. In addition, he would review all Material Safety Data Sheets (MSDS) for new products, to ensure that no asbestos is contained in them. (Note: A procedure is currently being developed through Purchasing which will allow Reynolds Metals Company to determine whether or not a product contains asbestos before it enters the plant.) Finally, this person would be responsible for making certain that the appropriate safe-handling procedures are utilized when working with asbestos-containing products.

If you have any questions concerning this report, or if further information is desired, please feel free to contact us.

Ronald E. Benton

Ronald E Benton / RMC

Robert G. Burton

Robert G Burton

003637

TABLE 1
SHERWIN ALUMINA PLANT
ASBESTOS PRODUCTS

PRODUCT

Brake lining

TC wire

Rope/packing

Woven cloth gaskets

SUBSTITUTES

Scan Pac RF 38 or other
non-asbestos semi metallic

Fiberglass

Fiberglass or ceramic
fiber

Fiberglass, ceramic
and silicone cloths,
Kevlar, Zetex

003638

TABLE 2
SHERWIN ALUMINA PLANT
ASBESTOS-CONTAINING MATERIALS

<u>TYPE OF PRODUCT</u>	<u>APPLICATION</u>	<u>AREA(S) DEPTS.</u>	<u>SPECIAL HANDLING</u>	<u>SUBSTITUTES</u>
<u>AUTOMOTIVE & FRICTION</u>				
Brake shoes/lining	mobile equipment, rotating equipment (e.g. ball mill)	ALL	D	Scan Pac RF 38 or non-asbestos semi-metallic
<u>ELECTRICAL PRODUCTS AND COMPONENTS</u>				
TC wire	high temperature wire	Kiln; boilers, digestors, and heat exchanges	A	Fiberglass
Arc chutes	electrical	ALL	A	Bakelite or other rigid non- asbestos board
<u>GASKETS</u>				
Compressed sheets	pump seals, metal joint seals	ALL	A	Carlock Blu-Guard other non-asbestos sheet. Contact individual suppliers.
Woven cloth	gaskets for air slides, vessel cap & screw conveyor	ALL	B	Fiberglass, ceramic, and silicone cloths. also, Kevlar, Zetex.
<u>PACKING</u>				
Rope	oven & pump seals/packing	ALL	A (impregnated) B (nonimpregnated)	Fiberglass, ceramic fiber
<u>FIRE & HEAT SHIELDING</u>				
Bulk thermal insulation	vessel and pipe insulation	ALL	C	Fiberglass, mineral wool, non-asbestos calcium silicates, depending upon application.
Transite	lab duct work & hood & oven liner, muffle fce. liner	A		Contact Rex Roco, Pyrotek, & Hi Temp for particular situation.

003633

APPENDIX I

ASBESTOS SUBSTITUTES

It is important to note at this time that the following lists are not to be considered as absolute replacements but as a guideline in selecting substitute materials. Some recommendations, however, have been arrived at by trial and error, and represent a substantial amount of work done by various plants. Lists of vendors are not meant to be all inclusive or to suggest that other vendors not listed have unacceptable products.

Many asbestos substitutes are more expensive than their asbestos containing counterparts. However, the initial cost of asbestos does not always reflect the true cost of using asbestos. The cost of mandated personnel monitoring and protection, mandated disposal procedures, and long term disposal and personnel liability often offset major cost differentials between asbestos and non-asbestos products. The following are some cost comparisons for asbestos and non-asbestos products.

<u>Asbestos Material</u>	<u>Non-Asbestos Ratio</u>
Brake Material	1:2 Scan Pac RF-38
Blanket, Cloth	1:2.3 Thermabest 1:3.9 Kevlar 1:4.4 Fiberglass with Inconel Wire 1:3.7 Refrasil
Paper	1:5-6 Ceramic Fiber
Molten Metal Marinite Floats	1:1.25 N-14, B-2 Pyrotek
Casting Rings	1:1.1 HT 32 Hi Temp
Transite Board	1:1.3
Furnace Gaskets	1:5-6
Gloves	1:2
Sheet Gasket Ankorite 425	1:2 Anchor 443

The following are several substitutes that have been found for asbestos containing materials. A list of several base products and their temperature use limits is also shown.

<u>Material</u>	<u>Temperature Use Limit*</u>
Silicon Rubber	500°F
Kevlar	650°F
Fiber Glass	1000°F
Asbestos (Comparison Only)	500-1000°F
Mineral Wool	1900°F
Ceramic Fibers	2600°F
Silicon Fibers	3000°F

*The above temperatures are approximate and must be individually verified by manufacturer and product.

<u>Company</u>	<u>Trade Name</u>	<u>Application Form</u>
<u>Ceramic Fiber</u>		
C. E. Refractory Co. P. O. Box 828 Valley Forge, PA 19482 215/337-1100	Cer-Wool	Board, Paper, Blanket, Bulk
Babcock & Wilcox P. O. Box 923 Augusta, GA 30903 404/798-8000	Kaowool Saffil	Board, Paper, Blanket, Bulk
Carborundum P. O. Box 808 Niagara Falls, N.Y. 14302 716/278-2675	Fiberfrax	Board, Paper, Blanket, Bulk Cloth & Fabrics, Rope, Tape, Coatings
John Mansville Drawer 17L Denver, Colorado 80217 303/979-1000	Cerafiber	Board, Paper, Blanket, Bulk
A. P. Green P. O. Box 1220 Pryor, OK 14362-1220 918/825-1044	Inswool	Board, Blanket, Bulk, Felt
HITCO-Armco Steel 1600 W. 135th Street P. O. Box 1097 Gardena, CA 90249 213/532-0870	Refrasil	Cloth & Textiles
Haveg-Hercules, Inc. 900 Greenbank Rd. Wilmington, Delaware 19808 302/995-0400	Siltemp	Cloth & Textiles
<u>Other Cloths & Textiles</u>		
Dupont Company	Kevlar	Bulk, Cloth

003641

<u>Company</u>	<u>Trade Name</u>	<u>Application Form</u>
<u>Other Cloths & Textiles - Continued</u>		
RM Industrial Products P. O. Box 5205 North Charleston, SC 29406 803/744-6261	Flextra	Cloth, Yarn Kevlar Base
Textured Products, Inc. 141 S. Central Avenue Hartsdale, NY 10530 914/428-4210	Fibercoat	Cloth, Refractory Coated Fiberglass
Southern Textile Corp. P. O. Box 32427 Charlotte, NC 28232 704/372-2880	Cleangard Weldgard Covergard Splashgard	Cloth, Fiberglass Based
Zircar Fibrous Ceramics P. O. Box 458 Florida, NY 10921 914/651-4481		Exotic Cloths, Felts, & Assemblies up to <u>2600</u> °C

Brake and Friction Products

Scan Pac (Scan Pac RF-38)
9950 N. Port Washington Road
Mequon, WI 53092
414/241-3890

Fabricators, Glove & Clothing Manufacturers

Sager Glove Company
4030 Nashville Avenue
Chicago, IL 60634
312/286-6600

A-Best Products Company
3865 W. 150th Street
Cleveland, OH 44111
216/941-9400

Amatex Corp.
1032 Stanbridge Street
Norristown, PA 19404
215/277-6100

Star Glove & Safety Prod.
766 Merchant Street
Los Angeles, CA 90021-1595
213/628-1341

Tempo Glove Mfg., Inc.
3820 W. Wisconsin Ave.
Milwaukee, WI 53208
1-800-558-8520

Board Fabricators & Non-Asbestos Warehouses Of All Types
Of Fabricated Products

Pyrotek
E. 9601 Montgomery Avenue
Spokane, WA 99206
509/926-6211

Board Fabricators & Non-Asbestos Warehouses Of All Types
Of Fabricated Products - Continued

Rex Roto Corp.
5600 E. Grand River
Fowlerville, MI 48836
517/223-3787

Hi Temp Products, Inc.
Ethridge St. at Railroad
Humboldt, TN 38343
901/784-6652

Thermocouple Wire

Thermo Electric
109 North Fifth St.
Saddle Brook, NJ 07662
201/843-5800

Industrial Pyrometer & Supply Company
P. O. Box 337
Alton, IL 62002
618-465-7623

Claude E. Gordon
P. O. Box 500
Richmond, IL 60071
815/678-2211

All major temperature control instrument companies can also supply non-asbestos jacketed wire.

Transite, & Roofing
& Siding Non-Asbestos

Application

Steelite, Inc.
1010 River Road Blvd.
Pittsburgh, PA 15202
412/734-2600

Steel Wall &
Roofing Systems

Robertson Company
400 Holiday Drive
Pittsburgh, PA 15220
412/928-7500

Steel Wall &
Roofing Systems
Versacor AF
Versacor DF
Vitalume
Durasil

Contact John W. Flemer in Central Engineering if more information is required - phone 804/281-2601, Reyphonet 222.

Sealants

American Coatings Corp.
5235 North Elston Ave.
Chicago, IL 60630
312-286-6610

Poster Products Div.
H. B. Fuller Co.
6107 Industrial Way
Houston, TX 77011
1-800-231-9541

003643

Gaskets & Packings

Listings below indicate factory locations; most companies have local distributors that will give individual service to applications. Many replacements are not universal in the same manner that asbestos was and often it takes two or more replacements to substitute for one asbestos gasket or packing.

<u>Company</u>	<u>Application</u>
Garlock 1666 Division Street Palmyra, New York 14522 315/597-4811	Carry a full line of Gaskets & Packings. Thermo-Sil Gylon Blue-Gard Graph-Lock
The Anchor Packing Company One Buttonwood Square Philadelphia, PA 19130 215/568-7808	Carry a full line of Gaskets & Packings. Ankorite Ankorlok Claro Pak Anchor #443 Carbonite
Chesterton Company Middlesex Ind. Park Rt. 93 Stoneham, MA 02180 617/438-7000	Complete line of Packings & Gaskets. Style 1724 Style 1740 Style 370 Style 195
Gaskets, Inc. Rio, WI 53960 414/992-3137	Fabricated Gaskets To Order of Kevlar Ceramic Fiber, Fiberglass & Silicone Rubber
Crane Packing Company 6400 Oakton Street Morton Grove, IL 60053	Full line of Packings Rite Pak
Crane & Company Nonwoven Products Div. Dalton, MA 01226 413/684-2600	Glass Papers Craneglas
TBA Industrial Products P. O. Box 466 Birmingham, MI 48012 313/647-4820	Fiberglass Fabrics & Gaskets, Refractory Papers Permanite AF2000 Fortex FP1000 Firefly Hi Temp Millboard

APPENDIX II

Page 1

PLANT SHERWIN
 LOCATION _____
 DIVISION _____

SURVEYED BY RONALD E. BENTON &
 ROBERT G. BURTON
 DATE 11-7-83

ASBESTOS SURVEY

SAMPLE #	SAMPLE LOCATION	APPLICATION	ANALYTICAL RESULTS
1S	Storeroom	gasket material for 3920	NO
2S	Storeroom	*overhead pipe insul. - ad. shipping/receiving dock	YES
	Storeroom	Comp. sheet gaskets, overhead pipe insul.,	YES
		glass sight gaskets, coil belt gasket, rope,	YES
		brake lining, woven gaskets, asb. tape	YES
3S	Paint Shop Office	ceiling tile	NO
4S	Outside Carpenter Shop	Pipe insulation	NO
	Carpenter Shop	Overhead pipe insulation	YES
5S	Machine Shop	Gasket material, white	YES
	Machine Shop	Overhead pipe insulation	YES
		gaskets, sheet gasket material, 3" tape, blanket	YES
		(behind cod forge), packing, arc chutes & asb. paper	YES
	*Adj. to Elec. Shop.	sleeves on steel pipe*insul., small oven in earing area	YES
		has asb. paper & sheet gasket	YES
6S	Bulk Storage	Pipe insulation	NO
	Bulk Storage	Pipe insulation, asb. tar paper	YES
7S	Power House	Insul. 8 & 9 boilers (old)	YES
	Power House Area #8 & 9	boiler insulation & pipe insulation	YES
8S	Power House	Vessel insulation	<1%
	Atmosp. Blowdown Vessel	Pipe insulation	
9S	Power House	#11 boiler	YES
10S	Power House	Bulk insulation	YES
	# 6 Generator		
11S	Power House	Outer coating	NO
	Power House	Pipe and duct insulation	YES
	Bldg. 111, Generator		
	Power House	Pipe insulation	YES
	Bldg. 111, Generator		
	Power House	compressor after cooler	
	Bldg. 111, Generator	air lines - insul. air in the diesel engine - insul.	YES

00364

PLANT SHERWIN
 LOCATION _____
 DIVISION _____

SURVEYED BY RONALD E. BENTON &
ROBERT G. BURTON
 DATE 11-7-83

ASBESTOS SURVEY

SAMPLE #	SAMPLE LOCATION	APPLICATION	ANALYTICAL RESULTS
	Power House Laboratory	oven-asb. door seals, pipe insul. drum & sample storage	YES
			YES
12S	Power House - #6 Generator #50 Steam Line	Bulk Insulation	YES
13S	Air Filter - #5	Bulk Insulation	YES
14S	Generator Closed Heater Area	Bulk Pipe Insulation	YES
15S	E. Condensate Tank	Bulk Insulation	NO
16S	Storage Tank for Asb.	Bulk insul.	NO
17S	3rd Level #850 Steam Line	Pipe insul.	YES
18S	#600 Steam Line	Pipe insul.	YES
19S	2nd Level Facility 22	Outer paper insul. (pipe)	<1%
	Facility 22 (old)	Pipe & bulk insulation	YES
	Facility 22 ESP	Intake ductwork insul.	YES
	Facility 24	Pipe insulation	YES
20S	Facility 22 (old)	Pipe insul. (small)	YES
21S	Facility 22 (old)	Fresh air makeup Vessel insulation (2nd floor)	YES
22S	Facility 22 (old)	Coating on siding - pan shape - Kiln floor	YES
23S	Facility 22 (old)	Vessel insul.-block(see 21s)	YES
24S	Facility 22 (old)	Old ESP INSUL. (tar outer) mineral wool behind	NO
25S	#3 SOP	Vessel insul. similar to old 24 Facility(see 21S)	YES
26S	#1 SOP	Vessel insul - old	YES
27S	#32 Area, Starch Storage	Vessel insul. -powder	NO
28S	#3 Unit Washer overflow	piping insul.	YES
29S	#1-7 flashtub	mineral wool inner insul. material	NO
30S	Liquor to #2 heater	valve dock piping insul.	YES
		block sheets; paper outer	YES

00364

PLANT SHERWIN
 LOCATION _____
 DIVISION _____

SURVEYED BY RONALD E. BENTON &
 ROBERT G. BURTON
 DATE 11-7-83

ASBESTOS SURVEY

SAMPLE #	SAMPLE LOCATION	APPLICATION	ANALYTICAL RESULTS
	Power House Bldg. 111, Generator	intake diesel engine - insulation	YES
	Power House #5 Air Comp. Bldg.	Inlet/outlet piping, air comp. insul.	YES
	Power House Reducing Stn. Area	600 lb. steam line manifold, piping insulation	YES
	Power House Closed Heater	Pipe Insulation	YES
	Power House Boiler Fuel Water	Bulk Insulation	YES
	Power House Steam Turbine housing	Bulk insul., pipe insul.	YES
	Power House Aerator Inks	Bulk Insulation	YES
	Power House Day Tank	Pipe and Bulk Insulation	YES
	Heater for fuel oil		YES
	Power House Condensate Filters	Pipe Insulation	YES
	Power House Flash Tank	Bulk Insulation	YES
	Power House Exchanger-blowdown	Pipe Insulation	YES
	heat Condensate pumps	Pipe Insulation	YES
	Power House #10 Boiler	Inlet/outlet bulk insul., gasket	YES
	Power House #5 & 6 Boiler	Bulk insul. and pipe insul.	YES
	Power House 2nd Level	Bulk insul. and pipe insul.	YES
	Power House #4 & 3 Boiler	Piping & bulk (#3)	YES
	Power House #4 & 3 Boiler	Old asb. tape alongside heater	YES
	Power House # 1 & 2 Boiler	Pipe Insulation	YES
	Power House 850 lb. steamline	Pipe Insulation	YES
	Power House 300 lb. heater line	Pipe Insulation	YES
	Power House #4 Generator	asb. padding material (2nd level)	YES
	Power House #4 Generator	old pipe insulation (1st level)	YES
	Laboratory	Old Precision Scientific	YES

0036

PLANT SHERWIN
 LOCATION _____
 DIVISION _____

SURVEYED BY RONALD E. BENTON &
ROBERT C. BURTON
 DATE 11-7-83

ASBESTOS SURVEY

SAMPLE #	SAMPLE LOCATION	APPLICATION	ANALYTICAL RESULTS
"	#8 Lab	Drawer & below sink,	YES
"	" "	Hood transite liner,	YES
"	" "	transite exhaust ducts,	YES
"	#9 Lab	Sleeves in drawer under	YES
"	" "	muffle fce. transite	YES
"	" "	front & back muffle fce.,	YES
"	" "	induction htr. under hood has	YES
"	" "	transite, transite hood liner,	YES
"	" "	transite exhaust ducts,	YES
"	" "	sleeves in long drawer	YES
"	" "	below sink, Precision Science	YES
"	" "	over door seals	YES
"	#10 Lab	Transite front & back	YES
"	" "	muffle fce. hood exhaust	YES
"	" "	duct transite, gloves	YES
"	" "	under hood, transite	YES
"	" "	lined oven	YES
"	Upstairs Lab Stor.	Piece sheet gasket	YES
"	Zinc Calcium Room	material, pipe insul. -	YES
"	" " "	asb. tape, TC wire, roll	YES
"	" " "	asb. paper	YES
"	Millwright Shop	Gaskets - precut rings	YES
"	Lab #5	Sleeves in small drawer,	YES
"	" "	glove, transite in Hevi	YES
"	" "	Duty & Custin Ovens, asb.	YES
"	" "	paper on hot plate, also	YES
"	" "	in double drawers under-	YES
"	" "	neath, hood transite lined	YES
"	Lab next to #5 (Bomb Lab)	Transite lined hood	YES
"	Electrical Trailer	Roll TC wire	YES
"	Fabrication Shop	Welding curtain, several	YES
"	"	pieces sheet gasket	YES
"	"	material, gaskets.	YES
"	Instrument Shop	Sheet gasket material	YES
"	Instrument Storage	Flexatudic gasket, TC wire,	YES
"	"	sheet gasket material	YES

YES 00365

* NOTE: Items without numbers were identified as containing asbestos during the survey

PLANT SHERWIN
 LOCATION _____
 DIVISION _____

SURVEYED BY RONALD E. BENTON &
 ROBERT G. BURTON
 DATE 11-7-84

ASBESTOS SURVEY

SAMPLE #	SAMPLE LOCATION	APPLICATION	ANALYTICAL RESULTS
1.	Maintenance Shop (30 Area)	Cut & uncut sheet gaskets, packing, sight glass gasket	YES
	Pipe filters " "	cut ring sheet gaskets	YES
	" "	pipe insul. between 30 Area maint. & control room	YES
	" "		YES
	30 Area Digestion	Lime day tank bulk insul.	YES
	30 Area	Cleaning vessel insul.	YES
		caustic storage bulk insul.	
	Area 30 - Vertical Heaters	Old insul. asb. around htrs. & flash tanks flash tops (4) on horiz. heaters old insul. approx. 14 settlers have old	YES
	" "	bulk asb. insul. old washer insul., pipe insul., condensate tank, old washer overflow tank insul.	YES
	" "	diluter insul.	YES
	" "		YES
	Filtration Area 35 - red mud	patches of old insul. on several filter fuel tanks, caustic wash tank bulk insul. caustic htr. tank insul.,	YES
	Area 35	Pipe and vessel insul., #1 & 2 clear	YES
		Filtrate tank insul., outer paper insul., Kelley presses & AB presses, paper around heater valve between 2 storage tanks	YES
	" "		YES
	" "		YES
	Area 45 (PPcT)	Pipe insul. grd. level	YES
	" "	S. end digestors; steam line insul., topside	YES
	" "		YES
	45 - 1A Storage Cabinet outside	Packing	YES
	Kiln Floor Fac. 40	Water pape gasket, hot air slide gasket material	YES
	Fac. 40 ESP	#1-4 ESP blown on insul., duckwork insul. (paper)	YES

00365

**SURVEYED BY RONALD E. BENTON &
ROBERT C. BURTON**
DATE 11-7-83

[illegible]

APPENDIX III
SHERWIN ALUMINA PLANT
STOREROOM ASBESTOS PRODUCTS

<u>PRODUCT</u>	<u>STOREROOM STOCK NOS.*</u>
Ring gaskets	87-23-5899
	57-06-3196
	57-06-3197
	57-58-7166
Glass sight gaskets	12-72-5911
	12-72-5925
	12-72-5935
Coil belt gasket (4")	16-05-2646
	16-05-2551
Rope	16-25-0016
Sheet gasket	88-32-1345
Gasket	57-06-3224
	60-03-1840
Gasket, cylinder head	87-09-1030
Gasket, Clark Brothers	87-09-1050
	87-09-1400
Ca ring gasket	87-13-2672
	87-13-2590
Gasket, water connection	87-13-2841
Gasket, Ingersol Rand	87-13-3255
Gasket, Spacer	87-13-7270
Sheet Gasket	87-86-2148
	87-86-2152
Gasket	87-86-2385
	87-862450
Gasket, cylinder valve cover	87-13-2837
	87-13-8700
Gasket, gould	87-78-1350
Coil brake lining	78-86-6176
Gasket, DeLaval	87-57-2560
Gasket, ring woven	60-04-7350
	60-xx-0024
Gasket, Flextaulic	16-05-0675
	16-05-0640
	16-05-0625
	16-05-0595
	16-05-7785
	16-05-7810
	16-05-7816
	16-05-7765
	16-05-7766
	16-05-7767
	16-05-7768

003654

APPENDIX III
SHERWIN ALUMINA PLANT
STOREROOM ASBESTOS PRODUCTS

PRODUCT

Gasket, Flextaulic

Gasket, sheet

STOREROOM STOCK NOS.*

16-05-7769
16-05-7770
16-05-7772
16-05-7782
16-05-7783
16-05-7705
16-10-0200
16-10-0275
16-10-0410
16-10-0924
16-10-0865
16-10-0850
16-10-0800
16-10-1000
16-10-1020
16-10-1890
16-10-4330
16-10-1005
16-10-0831
16-10-0794
16-10-0767
16-10-0990
16-10-3020
16-10-5587
16-10-1515
16-10-2630
16-10-2615
16-10-2560
16-10-3675
16-10-7110
16-10-2522
16-10-0080
16-10-2522
16-10-2200
16-10-2515
16-10-2375
16-10-2400
16-10-2435
16-10-2445
16-10-2230
16-10-2325
16-10-3620
16-10-2085
16-10-4140

003655

APPENDIX III
SHERWIN ALUMINA PLANT
STOREROOM ASBESTOS PRODUCTS

PRODUCT

"
Gasket, sheet

Woven tape
Gasket, Flextaulic

STOREROOM STOCK NOS.*

16-10-2230
16-10-2005
16-10-2087
16-10-0195
16-10-2165
16-10-0595
16-10-4150
16-10-4075
16-10-2890
16-10-3975
16-10-2972
16-10-2958
16-10-2962
16-10-4070
16-05-7720
16-05-7760
16-05-7761
16-05-7762
16-05-7763
16-05-7764
16-05-7551
16-05-7552
16-05-7580
16-05-7592
16-05-7620
16-05-7635
16-05-7645
16-05-7671
16-05-7696
16-05-7520
16-05-7510
16-05-7500
16-05-7460
16-05-7470
16-05-7549
16-05-7835
16-05-7360
16-05-7310
16-05-7370
16-05-7426
16-05-7420
16-05-7400
16-05-7449
16-05-7827
16-05-7820
16-05-7775
16-05-1345

003656

APPENDIX III
SHERWIN ALUMINA PLANT
STOREROOM ASBESTOS PRODUCTS

PRODUCT

Gasket, sheet

STOREROOM STOCK NOS.*

16-05-2590
16-05-2940
16-05-2695
16-05-2250
16-05-2810
16-05-2830
16-05-2890
16-05-2895
16-05-2930
16-05-3850
16-05-2947
16-05-3660
16-05-2950
16-05-2105
16-05-2040
16-05-2050
16-05-2015
16-05-2000
16-05-1900
16-05-1812
16-05-1837
16-05-1870
16-05-2810
16-05-2890
16-05-1525
16-05-1550
16-05-1675
16-05-1560
16-05-1660
16-05-1700
16-05-1750
16-05-1375
16-05-1370
16-05-1400
16-05-1480
16-05-1490
16-05-1300
16-05-1275
16-05-1185
16-05-1170
88-18-3962
16-05-3000
16-05-3030

Woven gasket

003657

APPENDIX III
 SHERWIN ALUMINA PLANT
 STOREROOM ASBESTOS PRODUCTS

<u>PRODUCT</u>	<u>STOREROOM STOCK NOS.*</u>
Packing	16-25-0306 16-25-3420 16-25-2192 16-25-5300 16-25-5175
Chesterton Style 64 Hercules Style 159 Chesterton Style 326	
Woven gasket	16-25-4780
Gasket, Flextaulic	88-32-7220 88-32-1350 88-54-1375 88-54-1377
Metal jacketed asbestos	88-54-1381
Gasket, Tadpole woven asbestos	48-10-1015
Gasket, Flextaulic	48-12-1010
Friction disc	52-63-2675
Gasket, sheet	52-80-1605
Gasket, flat woven asbestos	52-33-7805
Transite cover	52-33-7607
Arc chutes	51-80-4620 51-80-4660
Base - Allen Bradley	51-03-2000 51-03-2010

*Note: This list is not all inclusive, but only indicates those items noted in the storeroom to contain asbestos.

003658