WW-02-28 #28

UNION CARBIDE CORPORATION
Specialty Chemicals — Sistersville Plant

MEMORANDUM TO: D. A. Boggs, L. J. Kyle, C. A. McNeill, F. M. Plechaty, K. B. Purintan, W. V. Summers, G. W. Wulfert

FROM: T. L. Grittie

DATE: March 18, 1986.

SUBJECT: Analysis of Jaxsan

COPY TO: D. A. Gosselin

Attached please find the report on the anlaysis of the Jaxsan samples that were sent to McCrone Associates, Inc. There are several points which should be noted.

1. The samples contain between 7 - 15% asbestos (of the chrysotile type). This is higher than the concentration that the supplier indicated was present. This information will be communicated to the manufacturer.

2. It states in the cover letter that all five samples appeared to be well bonded, and if undisturbed and undamaged, probably pose little threat of fiber release. This is consistent with information previously given to the insulators. To document the degree or occurance of fiber release, the IH group will monitor the insulators during removal of this material. This will be done when non-asbestos material is involved to provide documentation of what, if any is attributable to release from the Jaxsan.

3. This material should be handled with extreme care, during cutting for removal or other operations which could possibly damage or destroy the integrity of the bonding agent. If the aforementioned monitoring indicates that the material does not pose a hazard, then handling procedures will be re-evaluated. In addition, IH monitoring will be performed in the future (during such operations) to confirm the data obtained from the initial monitoring.

On the following page, please find the details associated with each sample (Z-Number) analyzed by McCrone Inc.

If you have any questions on the data or report, please feel free to call me at Ext. 521.

Sincerely,

T. L. Grittie

TLG/le
4567A

UCC 022423

PLAINTIFF'S EXHIBIT
UC-4071

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Z-7785 SAMPLE OF JAXSAN 600 TAKEN FROM T-484 (POLY II TANK FARM WEST OF SSP). MATERIAL WAS WHITE SPRAY GRADE AND IS AN EXAMPLE OF SOME OF THE MORE NEWLY APPLIED MATERIAL.

Z-7786 IS JAXSAN 600 TAKEN FROM A 500 LB. STEAM HEADER (RUNNING N-S) EAST OF THE EMULSIONS BUILDING. THIS MATERIAL HAS BEEN ON FOR APPROXIMATELY THREE YEARS.

Z-7787 IS JAXSAN 600 THAT WAS SCRAPED FROM AN INSULATORS JACKET.

Z-7788 IS JAXSAN SCRAPED FROM AN INSULATORS GLOVE.

Z-7789 IS A SAMPLE OF FRESH JAXSAN TAKEN FROM THE CONTAINER.

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ACL Doc 18685 · Page 2 of 10 **asbestosclaims.law/library/18685/2**

mccrone environmental services, inc.
200 OAKBROOK BUSINESS CENTER
5500 OAKBROOK PARKWAY
NORCROSS, GA 30093 • 404-449-8461

10 March 1986

Union Carbide Corporation
Silicones and Urethane Intermediates
Silicones Plant
P. O. Box 180
Sistersville, West Virginia 26175

Attention: Ms. Tammy L. Grittie
Industrial Hygienist

Re: McCrone Project No. ME-2418

Dear Ms. Grittie:

McCrone Environmental Services, Inc. has completed analysis of the five bulk samples for asbestos. The samples were analyzed using polarized light microscopy/dispersion staining (PLM/DS) per your authorization. Results of the analyses are enclosed. Estimated percentages of the various constituents are by volume.

Regarding our conversation of 3 March 1986, I have also enclosed a copy of EPA publication 560/5-85-024, entitled "Guidance for Controlling Asbestos-Containing Materials in Buildings". On page C-1, you will find the definition of "friable asbestos" which EPA employs. Of the five samples, sample Z-7786 probably comes closest to meeting the criteria outlined in the EPA definition for friable asbestos-containing material (ACM). All five samples appeared to be well bonded and, if undisturbed and undamaged, probably pose little threat of fiber release. I would suggest, however, implementing an operations and maintenance (O&M)

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ACL Doc 18685 · Page 3 of 10 asbestosclaims.law/library/18685/3

program to monitor the condition of this and other ACM which may be present. Some guidelines for establishing such a program are offered in the EPA book.

Thank you for consulting McCrone Environmental Services, Inc. If we may be of further assistance or if you have any questions concerning this report, please do not hesitate to contact our office.

Sincerely,

W. Randy Boltin

W. Randy Boltin
Microscopy Lab Manager

James R. Millette

James R. Millette. Ph.D.
Manager, Laboratory Services

WRB/JRM/mts

cc: 1) Union Carbide
Sistersville WV
Ms. Tammy L. Grittie
Industrial Hygienist

McCRONE ENVIRONMENTAL SERVICES, INC.
200 Oakbrook Business Center
5500 Oakbrook Parkway
Norcross, GA 30093 (404) 449-8461

BULK SAMPLE ANALYSIS

Project Number : ME-2418 Date analyzed : 3/3/86

Project Name : Union Carbide Corporation/Sistersville WV

Client : Same

Client's Sample I.D. : Z-7785 M.E. Sample I.D. No. : 860228003-1

Gross Visual Description : Gray and White, Rubbery Material

ASBESTOS MINERALS:	Estimated Percentage
1 . Chrysotile	10
2 . Amosite	
3 . Crocidolite	
4 . Anthophyllite	
5 . Tremolite/Actinolite	
Asbestos Total	10
Cellulose Paper/Wood Fibers	
Glass Fibers	15
Mineral Wool Fibers	
Perlite	
Mica	15
Binders	50
Others	
Granular Minerals	10
Total	100

Comments : T-484, SSP (spray gr.)

Microscopist : W. Randy Boltin

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ACL Doc 18685 · Page 5 of 10 asbestosclaims.law/library/18685/5

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Norcross, GA 30093 (404) 449-8461

BULK SAMPLE ANALYSIS

Project Number : ME-2418 Date analyzed : 3/3/86

Project Name : Union Carbide Corporation/Sistersville WV

Client : Same

Client's Sample I.D. : Z-7786 M.E. Sample I.D. No. : 860228003-2

Gross Visual Description : Gray-Green, Fibrous and Granular Material

ASBESTOS MINERALS:	Estimated Percentage
1 . Chrysotile	7
2 . Amosite	
3 . Crocidolite	
4 . Anthophyllite	
5 . Tremolite/Actinolite	
Asbestos Total	7
Cellulose Paper/Wood Fibers	
Glass Fibers	
Mineral Wool Fibers	
Perlite	8
Mica	
Binders	38
Others	
Synthetic Fibers	40
Granular Minerals	7
Total	100

Comments : 500 lb. Steam Header, N and S @ Emulsion Bld. (3 yr.)
Paint found in sample; paint included in binder percentage
Paint found in sample is gray-green

Microscopist : W. Randy Boltin

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ACL Doc 18685 · Page 6 of 10
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BULK SAMPLE ANALYSIS

Project Number : ME-2418 Date analyzed : 3/3/86

Project Name : Union Carbide Corporation/Sistersville WV

Client : Same

Client's Sample I.D. : Z-7787 M.E. Sample I.D. No. : 860228003-3

Gross Visual Description : Blue, Fibrous and Gray-Green, Rubbery Material

ASBESTOS MINERALS:	Estimated Percentage
1 . Chrysotile	15
2 . Amosite	
3 . Crocidolite	
4 . Anthophyllite	
5 . Tremolite/Actinolite	
Asbestos Total	15
Cellulose Paper/Wood Fibers	10
Glass Fibers	
Mineral Wool Fibers	
Perlite	
Mica	5
Binders	50
Others Granular Minerals	20
Total	100

Comments : Bob Keith's Jacket, 2/21/86

Microscopist : W. Randy Boltin

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ACL Doc 18685 · Page 7 of 10 asbestosclaims.law/library/18685/7

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BULK SAMPLE ANALYSIS

Project Number : ME-2418 Date analyzed : 3/3/86

Project Name : Union Carbide Corporation/Sistersville WV

Client : Same

Client's Sample I.D. : Z-7788 M.E. Sample I.D. No. : 860228003-4

Gross Visual Description : Gray-Green, Rubbery Material

ASBESTOS MINERALS:	Estimated Percentage
1. Chrysotile	15
2. Amosite	
3. Crocidolite	
4. Anthophyllite	
5. Tremolite/Actinolite	
Asbestos Total	15
Cellulose Paper/Wood Fibers	5
Glass Fibers	
Mineral Wool Fibers	
Perlite	
Mica	8
Binders	60
Others	
Granular Minerals	12
Total	100

Comments : Glove

Microscopist : W. Randy Boltin

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ACL Doc 18685 · Page 8 of 10 asbestosclaims.law/library/18685/8

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BULK SAMPLE ANALYSIS

Project Number : ME-2418 Date analyzed : 3/3/86

Project Name : Union Carbide Corporation/Sistersville WV

Client : Same

Client's Sample I.D. : Z-7789 M.E. Sample I.D. No. : 860228003-5

Gross Visual Description : Gray-Green, Viscous Fluid

ASBESTOS MINERALS:	Estimated Percentage
1 . Chrysotile	15
2 . Amosite	
3 . Crocidolite	
4 . Anthophyllite	
5 . Tremolite/Actinolite	
Asbestos Total	15
Cellulose	
Paper/Wood Fibers	
Glass Fibers	
Mineral Wool Fibers	
Perlite	
Mica	15
Binders	65
Others	
Granular Minerals	5
Total	100

Comments :

Microscopist : W. Randy Boltin

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ACL Doc 18685 · Page 9 of 10 asbestosclaims.law/library/18685/9

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