PLAINTIFF'S EXHIBIT

UC-3126

UNION CARBIDE CORPORATION
ENGINEERING, MANUFACTURING, AND TECHNOLOGY SERVICES
Central Engineering
South Charleston, West Virginia

UCC BUSINESS CONFIDENTIAL

April 6, 1987

TO: L. E. Calvert
S. W. Clark
G. B. Elder
R. W. Engle
S. S. Murphree

COPY TO: R. R. Allen
H. N. Baylor
D. J. Dickson
P. D. Franson
P. R. Kavasmaneck
J. G. Keeler
W. G. Lilly, Jr.
B. G. Perry
J. E. Sanders
S. W. Turicchi

FROM: C. C. Neely

SUBJECT: Minutes of Task Group Meeting of March 17, 1987
Phaseout Use of Asbestos-Containing Materials in Work Place
Chemicals and Plastics Group

Following is an Executive Summary of the action/agreements resulting from the subject meeting. The detailed minutes prepared by the responsible Task Group member are attached for those who desire additional information.

Executive Summary

The "heart" of the C&P Group asbestos-usage phaseout program is the requirement that no asbestos-containing products be purchased after January 1, 1989. Consistent with this date, the Task Group agreed last fall when preparing the proposed program that the affected valve, piping, and process vessel Standard Practice documents must be revised to show substitute materials by July 1, 1988, and manpower estimates were made accordingly. However, because of the rapid (and very likely, continuing) reduction of suppliers of asbestos-containing materials due to liability insurance coverage problems, in combination with the desire of key plant personnel to cease using these materials at an early date, the Task Group

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recommends that the responsible CED skill areas complete the required revisions to the affected Standard Practice documents by September 30, 1987.

Action H. N. Baylor R. R. Allen	This accelerated schedule will require additional technical assistance in the Piping Technology skill area. Preliminary discussions with R. R. Allen and R. W. Engle regarding the possibility of an accelerated schedule were held on March 23, 1987. Arrangements to obtain the needed technical assistance should now be made.
Action J. E. Sanders	The total CED cost of the accelerated program in 1987 over and above planned and budgeted T&S programs is estimated to be $34,000, much less than our earlier $93,000 estimate which was developed last September on the basis that much more work would be required. Funding for this activity is needed.
Action P. D. Franson D. J. Dickson	The Task Group requests the assistance of the Machinery Technology Group in identifying what actions, if any, are needed to assure that the broadly advertised aramid fiber nonasbestos asbestos gasket substitutes are not used in machinery items (e.g., pumps, compressors) for our process units. One of the major reasons these materials are generally considered unsuitable for gaskets is because they will not pass fire tests. The perception is that machinery manufacturers are using these materials without our knowledge and consent. Any costs associated with this request will be in addition to the $34,000 mentioned above.
Action J. E. Sanders	The Task Group requests advice as to where the now-approved asbestos-usage phaseout program documents will reside. It needs a permanent "home" within the TMS manuals system. S. W. Clark suggested it be included in Section 8 of the Safety Health manual - this is the Operation and Maintenance Section.

The meeting agenda was based on the duties listed in our recommended program that are delegated to the Central Engineering Department. These duties are listed below along with a brief summary of the action/agreements reached:

Agenda Number	Responsibility	Duty and Action/Agreement
4.1	S. W. Clark/C&P Industrial Hygiene Department (Terry Hanning)	Identification of Asbestos Containing materials. C&P Industrial Hygiene Department estimates completion of Criteria Document 4Q87. No cost to CED.

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Agenda Number	Responsibility	Duty and Action/Agreement
4.2	G. B. Elder	Replacement of Asbestos-Containing Insulation as Required to Maintain Structural and Functional Integrity. Responsibility of each location; CED-prepared criteria not required.
4.3	S. W. Clark/C&P Industrial Hygiene Department (Terry Hanning)	Removal, Modification, and/or Disposal of Asbestos-Containing Materials. Procedures already in place at all locations; no further action required.
4.4.1	G. B. Elder (Materials)	Use of Asbestos-Substitute Gaskets/Packing. Extended use of GRAFOIL™, spiral-wound with GRAFOIL™ or TEFLON™ fillers or reinforced TEFLON™ will cover our needs for now. Internal program of testing other non-asbestos substitute gasket materials not needed; will rely on test data developed by Materials Technology Institute (we are member) at no additional cost to CED. A concern was raised regarding the control of the use of the aramid-reinforced "nonasbestos" asbestos-substitute materials for gaskets in machinery items (e.g., pumps, compressors, etc.). These materials will not only not pass fire tests but will also perform poorly as gaskets because of their propensity to cold flow. The perception is that the vendors are making these substitutes without our knowledge and consent.
4.4.2	R. W. Engle (V&P Specs)	Two-to-three man-months of work is required to revise and issue valve manual and V&P Specifications. Can accomplish this with in-house staff by original July, 1988, target date; however, will probably need technical assistance to meet required September 30, 1987, completion date. Approximate additional cost to CED $20,000.

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Agenda Number	Responsibility	Duty and Action/Agreement
4.4.3	C. C. Neely (COP Specs)	Modest additional manpower required to revise specs; however, printing/distribution cost of unplanned revision of COP Specs in 1987 not included in T&S budget. Estimated additional cost to CED: $8,000.
5	C. C. Neely	Conducting on-site seminars at major plants not required; Key plant personnel do not need to be "sold" on need to quit using asbestos-containing materials in favor of more costly substitutes. They are fed up to here with even more costly monitoring, record-keeping, disposal requirements for asbestos-containing materials, etc.; and hence, are desirous of having Standard Practice documents available to allow them to cease using these materials prior to the mandated January 1, 1989, cutoff date.
6	G. B. Elder (H. G. Clem)	Identification of Asbestos-Free Insulation. Will prepare Location Practices for inclusion in Insulation Manual as appropriate by end of third quarter. Estimated cost to CED: $6,000.
6.1	C. C. Neely	Next Meeting. Unless the need for an earlier meeting is identified, the next meeting of the Task Group will be held on August 4, 1987, at the South Charleston Technical Center in Room 3505. All members are requested to mark their calendars accordingly.

The detailed minutes are attached for those interested in more complete information.

Respectfully submitted,

C. C. Neely for the Task Group

CCN:at
Attachments
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