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Report on Asbestos Samples

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MEMO NO. OWH/83/09

AMERADA HESS CORPORATION

DATE 1/19/83

INTEROFFICE CORRESPONDENCE

TO: W. Jones - Safety & Fire Protection - HOVIC  
FROM: O. W. Henderson - Corporate Safety & Fire Protection - MB  
SUBJECT: ASBESTOS SAMPLES

The enclosed reports confirm our telephone conversations regarding asbestos content of samples from your facility. Thermacil Calcium Silicate by Keene Corp. from the insulators warehouse (labeled asbestos free on the bag), should be removed from the warehouse and disposed of.

The OSHA standard, in a removal/demolition activity, requires protective steps and equipment for high level exposures whether such exposure exists or not. A stringent recordkeeping system to maintain information on reinsulated equipment would eliminate very costly work practices when non-asbestos material is removed in the future.

Individual sampling of various areas and/or jobs will be required as they are planned and scheduled. If the material to be removed was not asbestos bearing, this would eliminate some of the very stringent protective practices.

We will continue to assemble further information and provide all possible assistance.

  
O. W. Henderson

OWH/mt  
attach.

cc: R. Sagebien - HOVIC - w/attach.  
R. F. Wright - MB - w/attach.

WB #1-82

WB #2-82

WB #4-82

PLAINTIFF'S  
EXHIBIT

6152

List of Asbestos Samples from St. Croix taken during visit with Paul Sikoris the week of November 15th.

Sample #1 Insulation being removed from the Vis-breaker and being discarded.

Sample #2 Kaylo-10 by Owens-Corning was taken from a box of new material at the Vis-breaker job.

Sample #3 John Mansville Thermo-12 by John Manville - removed from a box of new material at the Vis-breaker.

Note: The previous samples were all taken at the Vis-breaker, and the following samples were all taken from new packages.

Sample #4 John Manville Thermo-12

Sample #5 Kaylo-10 manufactured by Dresser (Subsidiary of Owens-Corning)

Sample #6 PABCO Super Cal Temp insulation

Sample #7 Thermasil calcium silicate by Keene Corp.

Sample #8 Calsilite by H.W. Dresser

Sample #9 Fiberfrax by Carborundum (listed as a ceramic fiber textile)

Sample #10 Keene Super Powerhouse cement (notice on bag lists as asbestos-free)

Sample #11 A.P. Greene Refractory cement castable insulation #22.

Sample #12 H.T. Savage Refractory #1:2:4 LHV premixed refractory.

Sample #13 Calcium lumnite by A.P. Greene

Sample #14 Asbestos-free high temp master by Delta

Sample #15 Sample of in-service insulation from the #1 Sulfonate unit at St. Croix

Sample #16 Sample of in-service insulation from the #1 Sulfonate unit at St. Croix

Sample #17 #2 DU at St. Croix

Sample #18 #2 DU at St. Croix

AMERADA HESS CORPORATION  
CORPORATE SAFETY & FIRE PROTECTION

## LABORATORY ANALYSIS REPORT

FACILITY/DATE-- BOVIC - 11/82

| FILE<br>#                                                                              | REPRESENTATIVE<br>LOCATION                                 | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                                              |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------|--------------------|-------------------------|-------------------|----------------------------------------------------------------------------------|
|                                                                                        | Removed and discarded from Vis-breaker                     | 11/17/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample mostly cellulose fibers in talc.                     |
|                                                                                        | New material in Kaylo-10 box at Vis-breaker job            | 11/17/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos, sample mostly cellulose fibers in talc.                             |
|                                                                                        | New material removed from Thermo-12 box at the Vis-breaker | 11/17/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample mostly synthetic fibers in talc, 8.6% quartz present |
| NOTE: Following samples all taken from original packages at the insulator's warehouse. |                                                            |                     |                    |                         |                   |                                                                                  |
|                                                                                        | Johns Manville Thermo-12                                   | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample mostly synthetic fibers in talc, 5.0% quartz present |
|                                                                                        | Kaylo-10 by Owens Corning                                  | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample contains cellulose fibers in talc.                   |
|                                                                                        |                                                            |                     |                    |                         |                   |                                                                                  |

AMERADA HESS CORPORATION  
CORPORATE SAFETY & FIRE PROTECTION

INSULATION SAMPLES - 18 EACH

FACILITY/DATE-- HOVIC - 11/

| SAMPLE NUMBER | REPRESENTATIVE LOCATION                                                   | DATE OF SAMPLING | REPORT RECEIVED | ANALYZING LABORATORY | TYPE OF SAMPLE | RESULTS OF ANALYSIS                                                                                                    |
|---------------|---------------------------------------------------------------------------|------------------|-----------------|----------------------|----------------|------------------------------------------------------------------------------------------------------------------------|
| 6             | PABCO Super Cal Temp                                                      | 11/19/82         | 12/8/82         | NATLSCO              | Bulk           | No asbestos present, sample contains synthetic & cellulose fibers in talc.                                             |
| 7             | Thermasil calcium silicate by Keene Corp.                                 | 11/19/82         | 12/8/82         | NATLSCO              | Bulk           | Sample contains 20-25% amosite asbestos                                                                                |
| 8             | Calasilite by Dresser                                                     | 11/19/82         | 12/8/82         | NATLSCO              | Bulk           | No asbestos present, sample contains cellulose fibers in binder material.                                              |
| 9             | Fiberfrax by Carborundum (listed on container as a ceramic fiber textile) | 11/19/82         | 12/8/82         | NATLSCO              | Bulk           | No asbestos present, sample contains fiberglass & synthetic fibers                                                     |
| 10            | Keene Super Powerhouse cement (bag legend lists as asbestos free)         | 11/19/82         | 12/8/82         | NATLSCO              | Bulk           | No asbestos present, sample contains mineral wool in binder material                                                   |
| 11            | A.P. Greene Refractory cement castable insulation #22                     | 11/19/82         | 12/8/82         | NATLSCO              | Bulk           | No asbestos present, sample contains crystalline free silica & binder material, less than 1.0% quartz, 3.6% pyrobalite |

**AMERADA HESS CORPORATION  
CORPORATE SAFETY & FIRE PROTECTION**

**LABORATORY ANALYSIS REPORT**

FACILITY/DATE-- HOVIC - 11/82

| FILE<br>BER                                                    | REPRESENTATIVE<br>LOCATION                                       | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                                            |
|----------------------------------------------------------------|------------------------------------------------------------------|---------------------|--------------------|-------------------------|-------------------|--------------------------------------------------------------------------------|
|                                                                | M.T. Savage Re-<br>fractory #1:2:4<br>LHV premixed<br>refractory | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample contains<br>quartz & binder material. 6.1% quartz. |
|                                                                | Calcium lumite<br>by A.P. Greene                                 | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample is binder<br>material                              |
|                                                                | Asbestos-free<br>high temp master<br>by Delta                    | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample is mineral wool in<br>binder material              |
| X: The following samples were taken from in-service equipment. |                                                                  |                     |                    |                         |                   |                                                                                |
|                                                                | #1 Sulfonate<br>unit                                             | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample contains<br>synthetic fibers in binder material    |
|                                                                | #1 Sulfonate<br>unit                                             | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample contains<br>synthetic fibers in binder material    |
|                                                                | #2 DU                                                            | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | Sample contains 20-25% amosite asbestos                                        |

## LABORATORY ANALYSIS REPORT

INSULATION SAMPLES - 10 EACH

FACILITY/DATE-- HOVIC - 11/82

| LE<br>ER | REPRESENTATIVE<br>LOCATION                                                                                                         | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                                                     |
|----------|------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|-------------------------|-------------------|-----------------------------------------------------------------------------------------|
|          | #2 DU                                                                                                                              | 11/19/82            | 12/8/82            | NATLSCO                 | Bulk              | No asbestos present, sample contains synthetic fibers and fiberglass in binder material |
| 1:       | Method - Asbestos-polarized light dispersion staining microscopy.<br>X Quartz-X-Ray diffraction. X Cristobalite-X-Ray diffraction. |                     |                    |                         |                   |                                                                                         |

LABORATORY ANALYSIS REPORT

AMERADA HESS CORPORATION  
CORPORATE SAFETY & FIRE PROTECTION

INSULATION SAMPLES - 2 SAMPLES

FACILITY/DATE-- BOVIC - 11/82

| SAMPLE<br>NUMBER | REPRESENTATIVE<br>LOCATION                                                             | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                  |
|------------------|----------------------------------------------------------------------------------------|---------------------|--------------------|-------------------------|-------------------|------------------------------------------------------|
| 1                | Received in the field from an insulator. Represented (in error) to be calcium silicate | 11/1/82             | 11/8/82            | NATLSCO                 | Bulk              | Sample contains 25-30% chrysotile asbestos           |
|                  | Received in field from insulator personnel.                                            | 11/1/82             | 11/8/82            | NATLSCO                 | Bulk              | Sample contains 30-35% amosite asbestos              |
|                  |                                                                                        |                     |                    |                         |                   | <p>NOTE: Method - dispersion staining microscopy</p> |

## LABORATORY ANALYSIS REPORT

| FILE<br>NUMBER | REPRESENTATIVE<br>LOCATION | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                                                                |
|----------------|----------------------------|---------------------|--------------------|-------------------------|-------------------|----------------------------------------------------------------------------------------------------|
|                | Penex                      | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | No asbestos present, some synthetic fibers and fiberglass present in binder material. 11% Quartz.  |
|                | Penex                      | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | No asbestos present, some cellulose fibers present in binder material.                             |
|                | #3 DU                      | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | Approximately 15% chrysotile asbestos in binder material.                                          |
|                | #3 DU                      | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | Approximately 25% amosite asbestos in binder material.                                             |
|                | #3 CDU                     | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | Approximately 15% amosite asbestos in binder material.                                             |
|                | #3 CDU                     | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | Approximately 25% amosite asbestos in binder material.                                             |
|                | #2 CDU                     | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | No asbestos present. Some synthetic fibers and fiberglass present in binder material. 5.2% Quartz. |

## LABORATORY ANALYSIS REPORT

AMERADA HESS CORPORATION  
CORPORATE SAFETY & FIRE PROTECTION

INSULATION SAMPLES - 14 EACH

FACILITY/DATE-- HOWE - 12/82

| AMPLE<br>UMBER | REPRESENTATIVE<br>LOCATION | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                                    |
|----------------|----------------------------|---------------------|--------------------|-------------------------|-------------------|------------------------------------------------------------------------|
| 8              | #2 CDU                     | 11/30/82            | 12/21/82           | NATLSCO                 | Bulk              | No asbestos present. Some cellulose fibers present in binder material. |
| 9              | 4 DD                       | 12/3/82             | 12/21/82           | NATLSCO                 | Bulk              | Approximately 15% amosite asbestos in binder material.                 |
| 10             | 4 DD                       | 12/3/82             | 12/21/82           | NATLSCO                 | Bulk              | Approximately 15% amosite asbestos in binder material.                 |
| 11             | 5 DD                       | 12/3/82             | 12/21/82           | NATLSCO                 | Bulk              | Approximately 20% amosite asbestos in binder material.                 |
| 12             | 5 DD                       | 12/3/82             | 12/21/82           | NATLSCO                 | Bulk              | No asbestos present. Some cellulose fibers present in binder material. |
| 13             | Naptha Fraction-<br>ation  | 12/3/82             | 12/21/82           | NATLSCO                 | Bulk              | Approximately 15% amosite asbestos in binder material.                 |
|                |                            |                     |                    |                         |                   |                                                                        |

## LABORATORY ANALYSIS REPORT

FACILITY/DATE-- NOVIC - 12/82

| PLE<br>SER | REPRESENTATIVE<br>LOCATION                                                                             | DATE OF<br>SAMPLING | REPORT<br>RECEIVED | ANALYZING<br>LABORATORY | TYPE OF<br>SAMPLE | RESULTS OF ANALYSIS                                    |
|------------|--------------------------------------------------------------------------------------------------------|---------------------|--------------------|-------------------------|-------------------|--------------------------------------------------------|
|            | Naptha Frac.                                                                                           | 12/3/82             | 12/21/82           | NATLSCO                 | Bulk              | Approximately 20% amosite asbestos in binder material. |
|            | <p>Method - Asbestos-dispersion staining polarizing light microscopy<br/>Quartz-X-ray diffraction.</p> |                     |                    |                         |                   |                                                        |