

DOW CHEMICAL U.S.A.  
JOB SPECIFICATIONS  
09-94408

PLAINTIFF'S EXHIBIT

DOW-2524

GENERAL MECHANICAL - ASBESTOS REMOVAL IN PLANT A CONDENSATE  
SYSTEM

TEXAS OPERATIONS  
FREEPORT, TEXAS  
December 5, 1986

ST0408686

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ST0408686

DECEMBER 5, 1986  
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09-94408

AUGUST MOLINA  
DOW CHEMICAL USA  
FREEPORT, TEXAS

TITLE AND LOCATION: ASBESTOS REMOVAL IN PLANT A CONDENSATE SYSTEM

**1. BID INFORMATION**

- 1.1 Submit a lump sum proposal for furnishing all labor, supervision, tools, equipment and material to demolish the asbestos as specified herein.
  - 1.1.1 The proposal shall be based on all work being performed on a straight time basis - 7:30 a.m. to 4:00 p.m. - Monday through Friday. If overtime is requested by the Owner, Dow will reimburse the contractor for the wage premium in accordance with paragraph 4.02 of the contract.
  - 1.1.2 Dow will furnish dino-boxes and transport to in-plant disposal site, JLG, and fork truck with dump boxes.
  - 1.1.3 Contractor will furnish necessary scaffolding.
  - 1.1.4 Work will be completed by January 16, 1987.
- 1.2 This work will include, but is not limited to the following:

Removal, packaging, isolating area and completion. Contractor shall be responsible for removal of any residual asbestos inadvertently knocked to ground by normal job procedures, wind, etc.
- 1.3 Special Conditions:
  - 1.3.1 The job site is located in areas designated as hazardous. Daily Safe Work Permits will be required, and may be obtained from the Project Coordinator, August Molina, B-5401, phone 5757.
  - 1.3.2 Smoking will be confined to an area to be designated by the Dow representative at the start of the job.
  - 1.3.3 A safety orientation will be required for each contractor in the designated areas. This is in addition to the Brazosport Contractors' Safety Council orientation program.

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- 1.3.3.1 All contractor and sub-contractor personnel shall be familiar with and shall comply with the rules and procedures in the Safety and Loss Prevention Manual for Contractors issued by the Dow Chemical Company USA, Texas Operations, dated March, 1975.
- 1.3.3.2 Every contractor employee, before working on Dow property, must be indoctrinated in the rules contained in this manual through an **approved** safety indoctrination program. Contractors shall inform all their employees of all safety rules and all safety procedures before working in an Owner's plant.
- 1.3.3.3 The Brazosport Contractors' Safety Council has devised a means of orientation for contractor employees to meet these requirements. It is expected that all contractors will utilize this program for their employees working on this project. Each orientation program will last approximately 45 minutes to an hour. The contractor will be billed by the Brazosport Contractors' Safety Council for each employee attending a session.
- 1.3.4 Safety Equipment Required:

All safety equipment required for asbestos removal will be worn: approved dust masks, disposable paper coveralls (hooded), rubber boots, in addition to hard hat and side shield safety glasses and gloves.

  - 1.3.4.1 Other protective equipment may be required as designated by the Project Coordinator.
- 1.3.5 Contractor is to confine his people to the work area, access areas and designated break areas. Contractor employees are not to wander through the blocks.
  - 1.3.5.1 The contractor shall be responsible for furnishing for his employees: sanitary facilities which must be portable chemical type, change rooms and lunch room.

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- 1.4 The contractor is required to identify demolition areas while work is in progress, as per instruction from the Project Coordinator.

## 2. DEMOLITION

- 2.1 The contractor is to remove the following asbestos:

|          |                                        |          |              |
|----------|----------------------------------------|----------|--------------|
| Line #2  | East Side A-11                         | 3"       | 780'         |
|          |                                        | 1"       | 120'         |
| Line #3  | South Side A-24 to<br>North Side A-22  | 6"       | 580'         |
| Line #4  | North Side A-22 to<br>West Side A-28   | 3"       | 660'         |
| Line #5  | West Side A-28 to<br>South Side A-3000 | 2"<br>3" | 450'<br>830' |
| Line #6  | West Side A-4000                       | 8"       | 360'         |
| Line #7  | West Side A-2000                       | 6"       | 380'         |
| Line #8  | West Side A-1800                       | 2"       | 280'         |
| Line #9  | Northeast Side A-8 to<br>A-1600 Block  | 14"      | 1194'        |
| Line #10 | A-1600 Block                           | 14"      | 1074'        |
| Line #11 | A-2300 Block                           | 6"       | 375'         |
|          | A-2300 Block                           | 4"       | 15'          |
|          | A-2300 Block                           | 2"       | 785'         |

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PROCEDURE FOR BULK DISPOSAL OF ASBESTOS  
IN DEMPSTER/DINO BOXES

1. Lay (4) lengths of rope across the dino box and (2) lengths of rope length ways and drape outside so that the rope can be used to tie the contents down when it is filled. (See illustration for placing ropes and for lapping polyethylene sheeting on next page).

Note: Rope should be minimum 1/4 inch in diameter.

2. Lay a sheet of 6 mil polyethylene film in the dino, allowing the edges to drape over the edge. Roll the draped edges up so that the rolled film is at the edge of the dino. This will prevent tearing of the film when working around the dino. The polyethylene sheet can be purchased through M & S catalog #15-06130 in a 20 ft. width. A polyethylene dino box liner can be purchased through Environmental Operations (phone 7415).
3. Lengths of wetted asbestos covered pipe can be lowered over the dino and the asbestos removed, allowing it to fall into the dino. Make sure the asbestos being taken off the pipe and the asbestos in the dino are sufficiently wetted so that no dust is created.
4. Transite and other concrete - containing asbestos waste must be placed into the container in such a way that the liner is not ripped or punctured. If concrete - containing waste has been broken, it must be kept wetted sufficiently so that dust is not created.
5. If the dino is to be left for a long period of time (overnight or longer), unroll a single sheet of polyethylene film from an edge and cover it - or cut another sheet of polyethylene and cover it.
6. Do not fill containers above the top of the sides.
7. When the dino is full, double cover the asbestos with polyethylene film from each side and tie the rope so that the contents are securely contained and covered during transport.

Note: Tying polyethylene liners down with ropes is the minimum securement requirement. Any desired gluing or taping by generator for tighter sealing of package is optional. If this is done the generator should write special procedures to prevent the need for personnel to walk on top of the load in dempster/dino boxes.

8. Tie-downs for dempster liners must not be attached to dino/dempster boxes.
9. All dempster/dino boxes used for asbestos waste packaging and transport, and all packages of asbestos waste (including dempster liners) must be labeled with an OSHA - approved label available through Environmental Operations (phone 7415).

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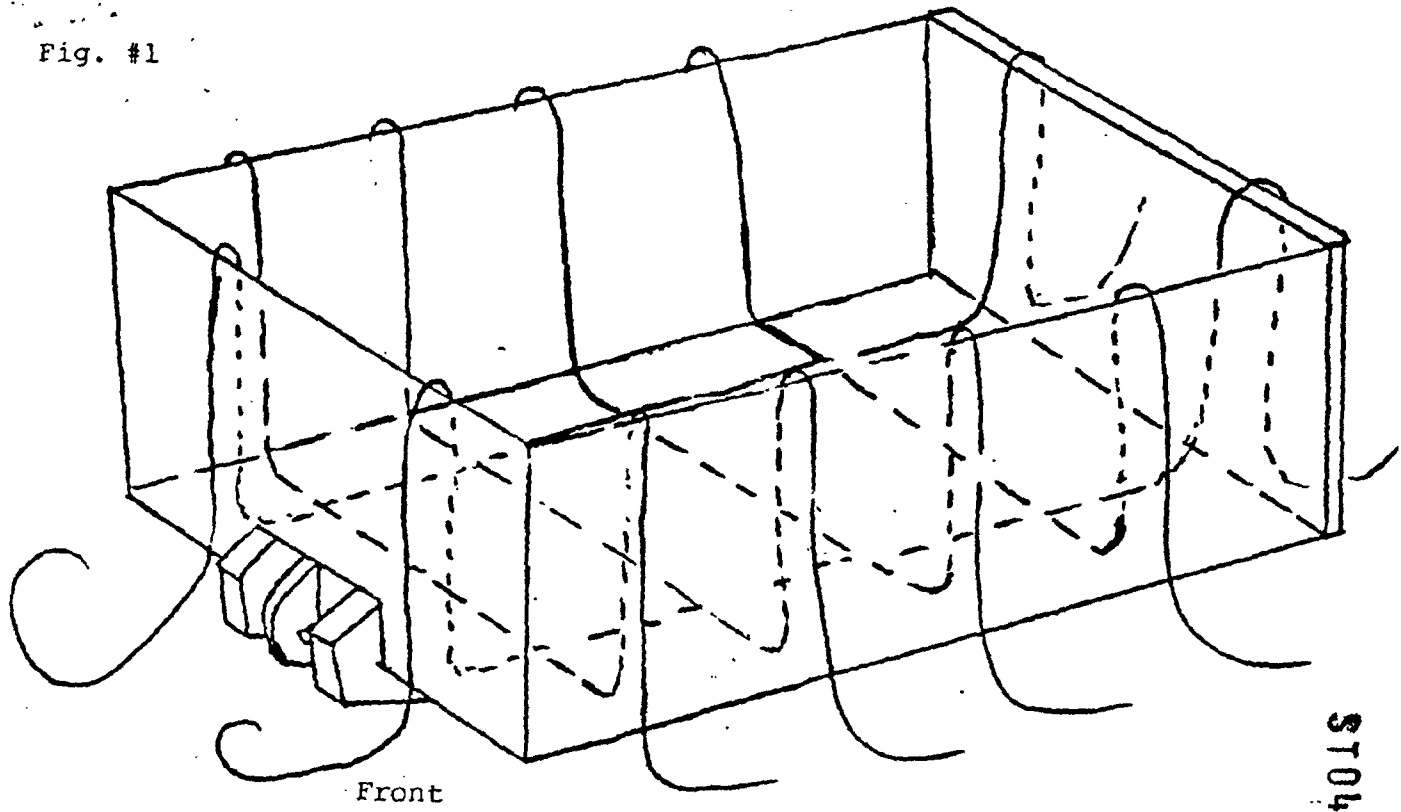
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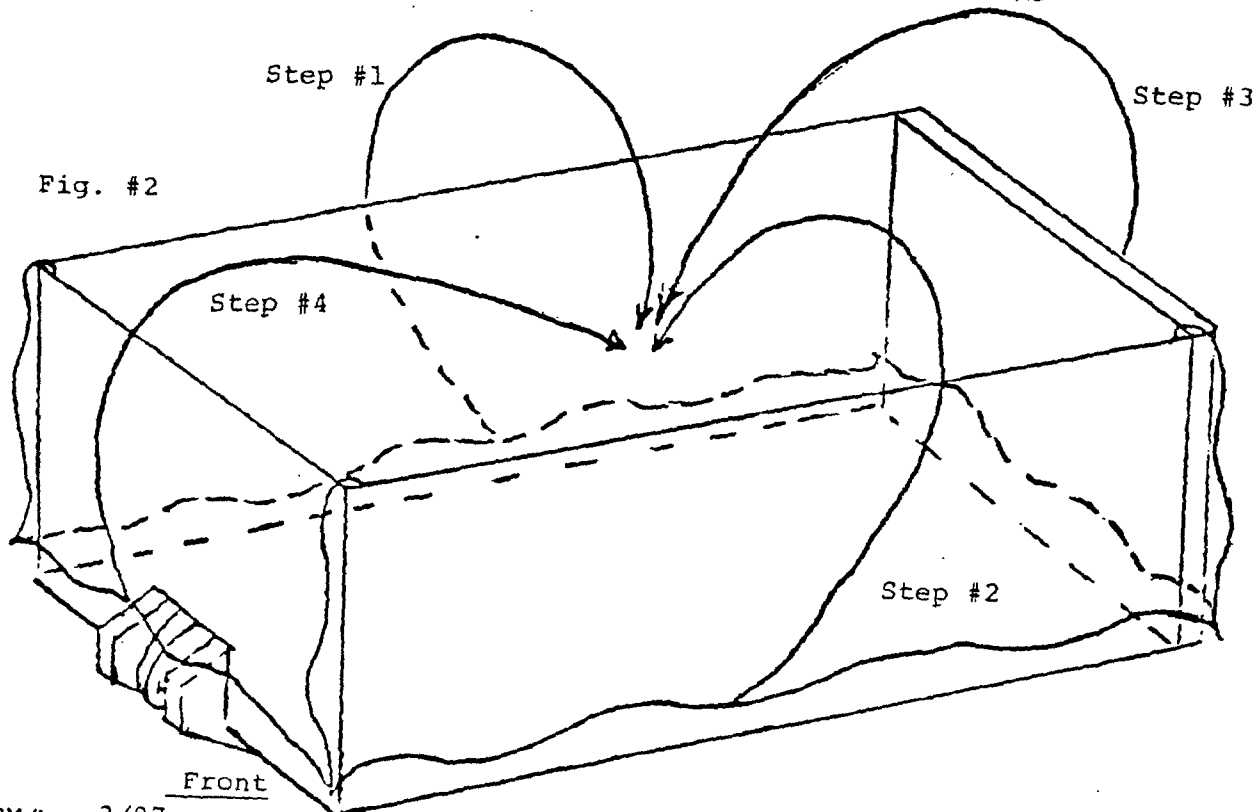
TIE - DOWN ROPES

Fig. #1



FOLDING INSTRUCTIONS FOR POLYETHYLENE LINERS

Fig. #2



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