



P. O. Box 330
Port Allen, LA 70767

Louisiana Contractor's
License #7331

DATE: FEBRUARY 5, 1991
TO: JEFF BOCK
FROM: RON LEE
RE: ASBESTOS

THE FOLLOWING IS THE RESULTS OF A ASBESTOS SURVEY,
RECENTLY COMPLETED IN THE METHANES BLOCK.

THIS ESTIMATE DOES NOT INCLUDE SCAFFOLDING OR MATERIAL
RENTAL, BUT DOES INCLUDE ALL ASBESTOS RELATED MATERIAL.

UPON COMPLETION OF THIS REMOVAL PROJECT, YOUR
RESPONSIBILITY FOR COMPLIANCE WITH DIVISION OSHA AND EPA
POLICY REGARDING ASBESTOS REMOVAL WILL BE GREATLY
IMPROVED.

MANHOURS- 797
MATERIAL- \$9,258.00
REMOVAL & ENCAPSULATION- \$15,655.00
TOTAL JOB COST- \$24,913.00

IF WE MAY BE OF ANY FURTHER ASSISTANCE PLEASE FEEL
FREE TO CONTACT ME AT EXTENSION 6300.

THANK YOU,

RONALD C. LEE, SUPERINTENDENT
PETRIN CORPORATION, DOW CHEMICAL

DO 074293
CONFIDENTIAL

**METHANES ASBESTOS
SURVEY OF ASBESTOS TO BE REPAIRED**

FEBRUARY 4, 1991

DISTILLATION AREA

- * 1. 1 1/2" STEAM LINE COMING OUT OF 235# HEADER TO DR-100 HAS 60 FEET OF ASBESTOS PAPER AND INSULATION TO BE REPAIRED.
- 2. 1 1/2" CONDENSATE LINE LEAVING FROM DR-100-A AND B HAS 15 FEET OF ASBESTOS PAPER AND INSULATION THAT NEEDS REPAIR.
- 3. E-1006 HAS 12 FEET OF 16" PIPE THAT NEEDS REPAIR.
- 4. 6" LINE ON MUFFLER NEXT TO E-1006 NEEDS 3 FEET REPAIRED.
- 5. 1 1/2" CONDENSATE LINE LEAVING FROM PIPE RACK GOING TOWARDS PERMIT OFFICE BUILDING HAS 21 FEET OF ASBESTOS PAPER AND INSULATION TO BE REPAIRED.
- 6. 2" 30# STEAM LINE LEAVING FROM PIPE RACK HAS 30 FEET THAT NEEDS REPAIR.
- 7. 2" LINE BY PERMIT OFFICE HAS 30 FEET THAT NEEDS REPAIR.
- 8. 1 1/2" OUTLET LINE RUNNING ON SIDE OF MCC BUILDING TO IN BETWEEN MCC AND 4601 HAS 20 FEET OF INSULATION THAT NEEDS REPAIR.
- * 9. C-8033-3" FEED LINE RUNNING INTO PIPE RACK HAS 15 FEET TO BE REPAIRED.
- * 10. 8" 30# STEAM LINE IN PIPE RACK NORTH OF MCC BUILDING, RUNNING UP TO ACID AREA NEEDS 25 FEET REPAIRED.
- 11. 3" LINE COMING OF 30# LINE TO C-803 CONTROL VALVE HAS 15 FEET OF INSULATION TO BE REPAIRED.
- * 12. 2" LINE COMING OFF OF 30# STEAM LINE TO TOP DECK STEAM HEADER NEEDS 15 FEET TO BE REPAIRED.
- * 13. 2" STEAM HEADER LINE COMING OUT OF 30# STEAM LINE RUNNING ON SIDE STAIR WAY NEEDS 10 FEET REPAIRED.
- * 14. 10" 235# STEAM LINE RUNNING FROM NORTH OF MCC BUILDING TO ACID AREA NEEDS 20 FEET REPAIRED.
- 15. 2" STEAM LINE COMING OUT OF 235# STEAM LINE TO C805 HAS 15 FEET TO BE REPAIRED. (CON'T PG. TWO)

DO 074294
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**METHANE'S ASBESTOS
SURVEY OF ASBESTOS TO BE REPAIRED**

FEBRUARY 4, 1991

16. C803 HAS 3 FEET OF 10" THAT NEEDS TO BE REPAIRED.
17. C803 HAS 9 FEET OF 2" THAT NEEDS TO BE REPAIRED.
18. C805 HAS 3 FEET OF 10" THAT NEEDS TO BE REPAIRED.
19. C805 HAS 3 FEET OF 2" THAT NEEDS TO BE REPAIRED.
20. 3" VENT LINE FOR C806, C803 AND C802 HAS 3 FEET TO BE REPAIRED.
21. 2 EA. 3" LINES COMING OUT OF C850 REBOILERS NEEDS 20 FEET TO REPAIR.
22. 1" STEAM LINE RUNNING FROM PIPE RACK ABOVE 2ND DECK BY D800 HAS 10 FEET TO BE REPAIRED.
- * 23. TOP DECK OF STRUCTURE SOUTH OF C806 HAS 9 FEET OF 4" TO BE REPAIRED.
- * 24. 3" PIPE RUNNING FROM IN BETWEEN C806 REBOILER TO PIPE RACK HAS 21 FEET TO BE REPAIRED.
- * 25. 10" CONDENSATE HEADER WHICH RUNS FROM DISTILLATION AREA EAST TO ROAD ON SIDE OF FIN FANS NEEDS 70 FEET TO BE REPAIRED.

M/H 205
LABOR COST \$ 4,354.00
MAT'L COST \$ 2,494.00
TOTAL \$ 6,848.00

**A/C ROOM BUILDING 4601
DISTILLATION AREA**

1. 2" LINE IN ROOM NEEDS 18 FEET ENCAPSULATED.
2. 1" LINE IN ROOM NEEDS 10 FEET ENCAPSULATED.

M/H 10
LABOR COST \$ 210.00
MAT'L COST \$ 119.00
TOTAL \$ 329.00

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METHANES ASBESTOS
SURVEY OF ASBESTOS TO BE REPAIRED

FEBRUARY 4, 1991

ACID AREA TO EAST PIPE RACK
AT CA# 2

1. 8" 30# STEAM LINE NEEDS 75 FEET OF PAPER AND INSULATION TO BE REPAIRED.
2. 6" 235# STEAM LINE NEEDS 125 FEET OF ASBESTOS PAPER AND INSULATION TO BE REPAIRED.
3. 1 1/2" 30 # STEAM LINE RUNNING FROM PIPE RACK TOWARDS CONDENSING AREA ON 2ND LEVEL ABOVE S1001 TO CORNER RIGHT BY LADDER HAS 20 FEET THAT NEEDS REPAIR.
4. 30 FEET OF 3" LINE RUNNING ABOVE STEPS NEXT ACID AREA NEEDS REPAIR.
5. FROM D1002 TO CONDENSATE HEADER. NEEDS 10 FEET OF 8" LINE TO BE REPAIRED.

M/H 105
LABOR COST \$ 2,205.00
MAT'L COST \$ 2,039.00
TOTAL \$ 4,244.00

STORAGE TANK AREA

1. 1 1/2" STEAM LINE FROM 30# STEAM LINE TO TANK AREA NEEDS 150 FEET OF PAPER AND INSULATION REPAIRED.

DECK NEXT TO STORAGE TANK AREA

1. 15 FEET OF 1" LINE RUNNING FROM GROUND TO 30# STEAM HEADER NEEDS TO BE REPAIRED,
2. 1 1/2" STEAM LINE RUNNING FROM DECK TO TANK CAR LOADING HAS 180 FEET OF PAPER AND INSULATION THAT NEEDS TO BE REPAIRED AND ENCAPSULATED.

M/H 123
LABOR COST \$ 1,449.00
MAT'L COST \$ 815.00
TOTAL \$ 2,264.00

605'

DO 074296
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**METHANES ASBESTOS
SURVEY OF ASBESTOS TO BE REPAIRED**

FEBRUARY 4, 1991

**PIPE RACK GOING NORTH AND SOUTH TOWARDS
R-60 AND LHC-2**

1. 3- EA. 1" LINES INSULATED TOGETHER NEEDS TO BE STRIPPED FOR DEMO.
2. 3" 30# STEAM LINE LEAVING FROM 8" 30# STEAM LINE BY D108 GOES TO T-900 AND STOPS HAS 75 FEET THAT NEEDS REPAIR.
3. 3" CONDENSATE LINE FROM PIPE RACK TO T-900 HAS 50 FEET OF PAPER AND INSULATION THAT NEEDS REPAIR.
4. 1 1/2" LINE FROM T-960 IN PIPE RACK TOWARDS LHC-2 IN BETWEEN T-101 AND T-102 NEEDS 70 FEET OF PAPER AND INSULATION REPAIRED.
5. 1 1/2" STEAM HEADER IN BETWEEN T-101 AND T-102 HAS 25 FEET OF PAPER AND INSULATION THAT NEEDS REPAIR.
6. 1 1/2" LINE FROM T-102 WEST TO PUMPS 255 A&B HAS 50 FEET OF PAPER AND INSULATION THAT NEEDS REPAIR.
7. 1 1/2" LINE FROM T-102 TO T-261 INCLUDING STEAM HEADER HAS 80 FEET OF PAPER AND INSULATION THAT NEEDS REPAIR.
8. 1 1/2" LINE FROM T-261 TO T-104 HAS 70 FEET OF ASBESTOS PAPER AND INSULATION THAT NEEDS REPAIR.
9. 1 1/2" LINE FROM THE MIDDLE OF T-261 WEST TO PUMPS 259 A&B HAS 25 FEET OF PAPER AND INSULATION TO BE REPAIRED.
10. 1 1/2" LINE FROM STEAM HEADER BY 259 A&B TO THE OF T-814 A AND THEN TO THE BOTTOM HAS 100 FEET OF PAPER AND INSULATION NEEDS TO BE REPAIRED.

M/H	200
LABOR COST	\$ 4,202.00
MAT'L COST	\$ 2,635.00
TOTAL	\$ 6,837.00

DO 074297
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METHANES ASBESTOS
SURVEY OF ASBESTOS TO BE REPAIRED

FEBRUARY 4, 1991

FIN FANS TOWARDS R-300

1. 3" LINE COMING OUT OF 30# STEAM LINE GOING TOWARDS
FIN FANS IN PIPE RACK TOWARDS R-300 HAS 20 FEET OF
PAPER AND INSULATION TO BE REPAIRED, THEN REDUCES TO A
2" WHICH HAS 100 FEET TO BE REMOVED AND RE-INSULATED.
2. 3 FEET OF 3" LINE RUNNING IN BETWEEN R-300 AND F1000
NEEDS REPAIR.
3. STEAM HEADER BY AH-3 HAS 9 FEET OF 2" LINE THAT NEEDS
TO BE REMOVED.

M/H	99
LABOR COST	\$ 2,080.00
MAT'L COST	\$ 539.00
TOTAL	\$ 2,619.00

DO 074298
CONFIDENTIAL

METHANES BLOCK
ASBESTOS SURVEY
ALL ASBESTOS IN BLOCK

FEBRUARY 5, 1991

DISTILLATION AREA

1. 1 1/2" STEAM LINE COMING OUT OF 235# STEAM LINE TO DR 100A.
2. DR 100 A&B HAS 2 STEAM HEADERS ABOUT 30' OF 6" AND 15 FEET OF 2" PAPER AND INSULATION.
3. 1 1/2" CONDENSATE LINE LEAVING FROM DR 100 A & B HAS 48 FEET OF PAPER AND INSULATION.
4. MUFFLERS NEXT TO E1006 HAS 9 FEET OF 6" PAPER AND INSULATION.
5. 2" LINE NEXT TO E1006 HAS 9 FEET OF PAPER AND INSULATION.
6. 1 1/2" CONDENSATE LINE LEAVING FROM PIPE RACK GOING TOWARDS PERMIT OFFICE BUILDING HAS 90 FEET OF PAPER AND INSULATION.
7. 2" STEAM LINE LEAVING FROM PIPE RACK 30# STEAM LINE HAS 80 FEET OF PAPER AND INSULATION; ALSO ANOTHER 35 FEET OF INSULATION.
8. 2" LINE COMING OFF OF LINE BY PERMIT OFFICE BUILDING HAS 30 FEET OF PAPER AND INSULATION.
9. 4" LINE AND VALVE HAS 40 FEET OF PAPER AND INSULATION. (NEXT TO PERMIT OFFICE)
10. 1 1/2" OUTLET LINE RUNNING FROM SIDE MCC BUILDING TO IN BETWEEN MCC AND 4601 HAS 45 FEET OF PAPER AND INSULATION.
11. 8" 30# STEAM LINE IN PIPE RACK NORTH OF MCC BUILDING HAS 120 FEET RUNNING UP TO ACID AREA.
12. 3" LINE COMING OFF OF 30# STEAM LINE TO C803 CONTROL VALVE HAS 90 FEET OF PAPER AND INSULATION.
13. 2" LINE COMING OFF OF 30# STEAM LINE TO TOP DECK STEAM HEADER HAS 45 FEET OF PAPER AND INSULATION.
14. 2" STEAM HEADER LINE COMING OUT OF 30# STEAM LINE RUNNING ON SIDE OF STAIRWAY HAS 25 FEET OF PAPER AND INSULATION.
15. 10" 235# STEAM LINE RUNNING FROM NORTH OF MCC BUILDING TO ACID AREA HAS 100 FEET OF PAPER AND INSULATION.
16. 2" STEAM LINE COMING OUT OF 235# STEAM LINE TO C805 HAS 90 FEET OF PAPER AND INSULATION.
17. C803 HAS 12 FEET OF 10" LINE WITH PAPER AND INSULATION.
18. C803 HAS 9 FEET OF 2" LINE WITH PAPER AND INSULATION.
19. C805 HAS 12 FEET OF 10" WITH PAPER AND INSULATION.
20. C805 HAS 3 FEET OF 2" LINE WITH PAPER AND INSULATION.
21. 3" VENT LINE FOR C806, C803, C802 HAS 70 FEET OF PAPER AND INSULATION.
22. 2 EA. 3" LINES COMING OUT OF C850 REBOILERS HAS 21 FEET OF PAPER AND 40 FEET OF PAPER AND INSULATION.
23. 1" STEAM LINE RUNNING FROM PIPE RACK ABOVE 2ND DECK BY D800 HAS 20 FEET OF PAPER AND 30 FEET OF INSULATION.
24. DR 100A HAS 56 SQUARE FEET OF INSULATION.
25. DR 100B HAS 56 SQUARE FEET OF INSULATION.

DO 074299
CONFIDENTIAL

1078' 112 H'

METHANES BLOCK
ASBESTOS SURVEY
ALL ASBESTOS IN BLOCK

FEBRUARY 5, 1991

26. 3" PIPE RUNNING FROM IN BETWEEN C 806 HAS 9 FEET OF PAPER AND INSULATION.
27. 10" CONDENSATE HEADER RUNS FROM DISTILLATION AREA EAST TO ROAD ON SIDE OF FIN FANS HAS 175 FEET OF PAPER AND INSULATION.

A/C ROOM BUILDING 4601

1. 2 EA. 2" LINE FROM A/C ROOM TO MCC PERMIT OFFICE BUILDING HAS 60 FEET OF INSULATION.
2. 3" LINE IN ROOM HAS 25 FEET OF INSULATION.
3. 2" LINE IN ROOM HAS 40 FEET OF INSULATION.
4. 1" LINE IN ROOM HAS 175 FEET OF INSULATION.

ACID AREA EAST TO PIPE RACK
AT CA-2

1. 8" 30# STEAM LINE HAS 225 FEET OF PAPER AND INSULATION.
2. 6" 235# STEAM LINE HAS 325 FEET OF PAPER AND INSULATION.
3. 1 1/2" 30# STEAM LINE RUNNING FROM PIPE RACK TOWARDS CONDENSING AREA ON 2ND LEVEL ABOVE S1001 TO CORNER RIGHT BY LADDER HAS 80 FEET OF PAPER AND INSULATION.
4. 3" LINE RUNNING ABOVE STEPS NEXT TO ACID AREA HAS 30 FEET OF PAPER AND INSULATION.
5. FROM D1002 TO CONDENSATE HEADER 8" LINE HAS 25 FEET OF PAPER AND INSULATION.

FIN FANS TOWARDS R-300

1. 3" LINE COMING OUT OF 30# STEAM LINE GOING TOWARDS FIN FANS IN PIPE RACK TOWARDS R-300 HAS 42 FEET OF PAPER AND INSULATION, THEN TURNS INTO A 2" LINE HAS 100 FEET OF PAPER AND INSULATION.
2. 3" LINE RUNNING IN BETWEEN R-300 AND F1000 HAS 15 FEET OF PAPER AND INSULATION.
3. STEAM HEADER BY AH-3 HAS 9 FEET OF 2" LINE WITH PAPER AND INSULATION.

DO 074300
CONFIDENTIAL

1335'

METHANES BLOCK
ASBESTOS SURVEY
ALL ASBESTOS IN BLOCK

FEBRUARY 5, 1991

STORAGE TANK AREA

1. 1 1/2" STEAM LINE FROM 30# STEAM LINE TO TANK AREA HAS 225 FEET OF PAPER AND INSULATION.

DECK NEXT TO STORAGE AREA

1. 1" LINE RUNNING FROM GROUND TO 30# STEAM LINE HAS 40 FEET OF PAPER AND INSULATION.
2. 1 1/2" STEAM LINE RUNNING FROM DECK TO TANK CAR LOADING.

PIPE RACK GOING NORTH AND SOUTH
TOWARDS R-60 AND LHC-2

1. 3" 30# STEAM LINE LEAVING FROM 8" 30# STEAM LINE BY D108 GOES TO T 900 AND STOPS HAS 200 FEET OF PAPER AND INSULATION.
2. 3" CONDENSATE LINE FROM PIPE RACK TO T900 HAS 225 FEET OF PAPER AND INSULATION.
3. 1 1/2" LINE FROM T900 IN PIPE RACK TOWARDS LHC-2 HAS 180 FEET OF PAPER AND INSULATION.
4. 1 1/2" STEAM HEADER IN BETWEEN T 101 AND T 102 HAS 80 FEET OF PAPER AND INSULATION.
5. 1 1/2" LINE FROM T 102 WEST TO PUMPS 255 A&B HAS 120 FEET OF PAPER AND INSULATION.
6. 1 1/2" LINE FROM T 102 TO T 261 INCLUDING STEAM HEADER HAS 120 FEET OF PAPER AND INSULATION.
7. 1 1/2" LINE FROM T 261 TO T 104 HAS 120 FEET OF PAPER AND INSULATION.
8. 1 1/2" LINE FROM MIDDLE OF T 261 WEST TO PUMPS 259 A&B HAS 60 FEET OF PAPER AND INSULATION.
9. 1 11/2" LINE FROM STEAM HEADERS BY 259 A&B TO T 814A TOP TO BOTTOM HAS 160 FEET OF PAPER AND INSULATION.

C-850 HAS 1,272 SQUARE FEET OF ASBESTOS.

C-806 HAS 1,711 SQUARE FEET OF ASBESTOS.

DO 074301
CONFIDENTIAL

1530'

2983 ft'

METHANES BLOCK
ASBESTOS SURVEY
ALL ASBESTOS IN BLOCK

FEBRUARY 5, 1991

TRANSITE NEXT TO ACID AREA BY STAIRWAY GOING UP HAS
800 SQUARE FEET OF ASBESTOS.

TRANSITE ON WAREHOUSE HAS 9984 SQUARE FEET OF
ASBESTOS.

TRANSITE ON BUILDING BY TANK CAR LOADING AREA HAS 448
SQUARE FEET OF ASBESTOS.

TRANSITE ON ANALYZER SHACK BY C806 HAS 448 SQUARE FEET
OF ASBESTOS.

DO 074302
CONFIDENTIAL

11680 H'