



ESCAMBIA PLANT

INTEROFFICE MEMORANDUM

To: J. E. Greasel

Date: 7 October 1976

From: D. W. Henn

Copies:

Re: Monthly Report, September, 1976

A study was made to increase the heat recovery from the flue gas in the convection section of the ammonia primary reformer by evaluating the effects of various service configurations and tube surfaces (fin characteristics). The total amount of heat which could be recovered if the stack temperature could be lowered to 350°F (design) from the present 435°F was calculated to be 3.5 MM BTU/hour. Ten alternative configurations were considered. The configuration with the best indicated heat recovery (2.6 MM BTU/hr.) was also the most complex and expensive, but a reasonable payout was indicated. This alternative would be practical only if the entire convection section were to be disassembled for maintenance. The best calculated heat recovery to be realized with minimum modification of the upper part of the convection section was about 1.0 MM BTU/hr. In all cases, the proposed modification of the process air heating section would result in an outlet air temperature of 925°F, for a heat gain of 1.2 MM BTU/hr. over existing conditions. A formal report will be issued when cost figures on new tubes are received from Foster Wheeler.

The CE to install flexible seals around the tops of the ammonia reformer tubes to minimize air leakage has been approved. The design package and materials are on order.

Condensate returned from Amines is now being corrected for the quantity being flashed off in the Boiler Area and used in the low-pressure deaerator.

D. W. Henn
D. W. Henn

DWH: fls

AP00041931

Plastics

AP00041932



Air Products and Chemicals
INC.

ESCAMBIA PLANT
INTEROFFICE MEMORANDUM

To: R. E. Jones

Date: 4 October 1976

From: E. A. Primeau

Copies:

Re: PVC Expansion Report
VFCE 363 Status Report
September, 1976

A. R. Adams
J. T. Barr
T. L. Carey
M. B. Cobb/B. M. Benigno
R. Fleming
L. S. Forester
W. T. Johnson/D. J. Deville
A. H. Kaplan
A. K. McMillan
D. W. Pierce/J. P. Connors
W. R. Schofield
D. B. Sparrow

COST SUMMARY

Total Authorized Funds	\$11,222,000
Current Forecast	<u>11,212,373</u>
Variance	\$ 9,627

Current Forecast	\$11,212,373
Previous Report Forecast	<u>11,214,025</u>
Change Since Last Report	\$ (1,652)

COMPLETION DATES

Per Original CE Date	31 December 1976
Current Estimate Date	15 January 1977
Prior Month Report Date	31 December 1976

Engineering and construction work continued on the project. Through 28 September 1976, a total of \$7,887,183 has been spent or committed to the project as follows:

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<u>ITEM</u>	<u>EXPENDITURES</u>	<u>COMMITMENTS</u>
Equipment	\$ 3,690,297	\$ 541,507
Piping	612,220	86,840
Foundations (materials)	54,171	459
Electricals	485,461	15,639
Field Construction	34,534	6,069
APCI Engineering	415,644	-
Outside Engineering	359,192	-
Outside Drafting	392,416	-
Labor	<u>1,162,283</u>	<u>566</u>
Subtotal	\$ 7,206,218	\$ 651,080
Total Spent or Committed		\$ 7,857,298
Estimated Escalation		4,885
Outside Engineering and Drafting (Est. September)		<u>25,000</u>
Total Estimated Commitments		\$ 7,887,183
Total Project Authorization		<u>\$ 11,222,000</u>
Uncommitted (Estimated)		\$ 3,334,817

Based on the current cost forecasts and the latest critical path review, the PVC expansion project should be completed and ready for startup early in January, 1977, and should be completed at budgeted costs.

PROJECT WORK

A. Purchase Orders

Purchase orders totaling \$172,900 were issued during the month of September. The materials and equipment ordered included an air dryer system, the roof for the rail car loading area, conduit, electrical materials, piping materials, chemical cleaning area structural steel, insulation, welding supplies, multi-tube instrument bundles and capital spare control valves.

B. Civil Construction

1. The foundation was poured for the dryer building and erection of the structural steel was started in mid-September.
2. Concrete floors were poured on two levels of the recovery structure.

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3. The lateral pipe rack installation was completed.
4. Structural steel was ordered for the chemical cleaning area.

C. Equipment and Piping

1. The installation of the gas holder was completed and the tank was successfully tested and accepted.
2. The installation of the stripping tower was completed.
3. Installation of the new Nash recovery system was started during the latter part of September.
4. The fluid bed drier was installed in the drier building structure.
5. The installation of the transfer piping between the holding silos and the over track silos was completed. Initial resin transfer tests are now in progress.
6. All major piping work is in progress with work presently concentrated around the reactor building and recovery system.
7. The old Trane refrigeration machines were removed from the first floor of the existing polymerization building to make room for the solutions make up systems.

D. Instrumentation

Work continued to install the communication links between the control panel and computer. Work was initiated on the running of instrument bundles from the control room to the field instrumentation. Most of the control valves have now been received and are in the process of being installed.

Computer program development work stands as follows:

1. All main line programs have been checked out and further testing is unnecessary until the trial water tests runs can be made.
2. The Comgen programs are complete and are waiting for tie-ins from field instrumentation for further testing.
3. CRT control programs are being revised by Taylor to eliminate "bugs".

R. E. Jones
PVC Expansion Report
4 October 1976
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4. All logging programs are being checked out. Some problems have shown up that require program modifications which are in progress.

E. Electrical

Electrical tie-ins were made to the over-track bulk transfer system so that the system could be tested. Work continues on the installation of starting control centers and field wiring.


E. A. Primeau

EAP:ms
Attachment

AP00041936