

File E Roberts correspondence

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15th September, 1939

The Anglo-Saxon Petroleum Co. Ltd.
Lansbury Club,
Broom Road,
Teddington,
MIDDLESEX.

Dear Sirs,

ETHYL PLANT FOR VENEZUELA

I Thank you for your letter of the 12th September in which you advise us that it is your wish to erect an Ethyl blending plant at your San Lorenzo refinery in Venezuela.

We are enclosing herewith copy of a brochure entitled "Information Concerning the Properties, Handling and Mixing of Ethyl Fluid" in which you will find complete data regarding the construction and operation of such a plant.

On the basis of blending 10,000 metric tons of gasoline per month at a concentration of 1 c.c. per Imperial gallon, the quantity of Ethyl Fluid involved will be in the order of 23 55-gallon drums. As you will note one 55-gallon drum of Fluid contains precisely 130,000 c.c.'s of Tetraethyl lead.

In designing the plant it might be advisable to base this on the higher figure of 18,000 metric tons per month and also allow for a possible increase of lead concentration to say 1½ c.c.'s per gallon. Under these conditions the monthly consumption of Ethyl Fluid would correspond to approximately 65 55-gallon drums per month. It would certainly be advisable to ^{carry} ~~dispose~~ a stock of Fluid in excess of one month's consumption and in these circumstances we would advise that the storage platform should be of such a size as to accommodate say a minimum of 100 large drums. Full details of the size of such a platform will be found on our drawing No. E 301, copy of which is included in the attached brochure.

In laying out the plant we think it might also be advisable to situate it so that the storage platform could be extended should future requirements necessitate it. We should be grateful if you could get your friends in Venezuela to prepare detailed designs of the proposed blending plant and submit these to us for our approval. These drawings should indicate the actual construction of the building which should be based on our drawing No. E 301, and also its location inside the refinery. It is necessary for the blending plant to be situated in as unobstructed position as possible in order to ensure adequate ventilation.

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No building should be situated within a distance of 30ft. from the plant.

Particular attention is drawn to the diagrammatic drawing No. E.300 which illustrates the points to be observed when laying out the pipe work. A detailed plan of the pipe work system should, therefore, be included when submitting the projected plans to us for our approval.

It will be necessary for us to forward to Venezuela an educator set and we shall be able to arrange this on receipt of a reply from you. The educator set will be forwarded to Venezuela direct from New York, according to your specific shipping instructions, but it will not be required until the plant is nearly completed. Perhaps you would be kind enough to keep us advised of the progress that is made.

You will also notice in Appendix 4 of the attached brochure, details of the clothing and equipment which will be required by the personnel operating the plant. These can be obtained locally or from any of the approved sources of supply which are indicated.

It is also necessary to institute medical control over the workmen who will be operating the plant, and complete details of this scheme is also included in the brochure.

We note from your letter that you have a full time medical officer attached to the refinery and it will be quite in order for this gentleman to undertake this control. We are sending you herewith two copies of a general memorandum which we issue in the preliminary stages, to our medical consultants, and would be pleased if you would forward this on to your doctor for his information. At the same time perhaps you would advise us of his name and address as our Chief Medical Consultant, Dr. R.A.Kehoe will doubtless wish to get in touch direct with him.

As mentioned to you over the telephone this morning, we have cabled our representative in South America, Mr. L. B. Roberts of Casilla de Correo 1704, Buenos Aires, asking him to get in touch with your people in Venezuela at the earliest possible opportunity. Mr. Roberts will be able to assist in all questions relative to the erection and operation of this plant.

Very truly yours,

W. H. Roberts
W. H. Roberts

Copy to ~~Mr. Roberts~~

Mr. Roberts

Dr. Kehoe