

CORPS OF ENGINEERS, U. S. ARMY
Office of The District Engineer
ALASKA DISTRICT
Anchorage, Alaska

AE file # 400

Extra

17 December 1951

FINAL REVIEW
on
SPECIFICATIONS FOR ADVANCE PROCUREMENT, POL PIPELINE,
HAINES TO FAIRBANKS, ALASKA

1. A conference was held in the Seattle Branch Office, Alaska District, Corps of Engineers, 300 Exchange Building, Seattle, Washington from 9:00 A.M. to 7:00 P.M. on 7 December 1951. The following persons representing offices as indicated were present:

North Pacific Division:

Mr. George H. Kelleway
Mr. Robert J. Davis
Mr. P. L. Adkins
Mr. Maurice L. Cotta

Alaska District:

Mr. Edward W. Digges
Mr. Lewis A. Stanley
Mr. Carl L. Knutson

Seattle Branch Office:

Mr. N. E. Nelson

Architect-Engineer:
(The Fluor Corporation, Ltd.)

Mr. Gordon D. Bachemin
Mr. Chester M. Hawke

2. The purpose of the conference was the review of a preliminary draft of specifications for advance procurement of critical materials for the proposed POL Pipeline covering the following items: Mainline pipe, pumps and drivers, diesel driven generators, API welded storage tanks, and valves. The preliminary draft of specifications was presented to all in attendance and read in detail with corrections, omissions and additions being noted by each party. It was agreed by all present that each of the changes in the draft should not necessarily be covered in minutes of the conference but that the specifications would be revised by the architect-engineer in accordance with the decisions of the conference.

3. While it appeared that the preliminary draft of the specifications was more in the nature of construction than procurement specifications, all were agreed that they were generally satisfactory for procurement purposes.

4. The architect-engineer submitted to the conference a takeoff of the quantities of pipe and valves of various sizes covering both mainline and pumping station pipe and valves.

5. After conclusion of the review of the specifications, a number of other items affecting the final design of the system were discussed as follows:

a. The architect-engineer asked for analyses of soil samples obtained through exploratory drilling at Haines and Station No. 2 and was advised that these would be furnished by the Alaska District as soon as possible.

b. The architect-engineer raised the question of internal tank heaters versus heated building inclosures for the water tanks at the terminal and pumping stations. He presented figures to show that internal heaters would be more economical than heated buildings and stated that he would submit such figures formally within a few days.

c. Foamite fire protection for the petroleum storage tanks was discussed and some of the difficulties pointed out, particularly the problem of operating such a system in subzero temperatures. The ratio of foamite liquid to air in the mixture is approximately 1 to 10 and, when ambient temperatures are subzero, the system will not operate without some means of heating the air. It was agreed, however, that the foamite system, being the best known system of fighting petroleum tank fires, would be installed.

d. The architect-engineer asked whether a sprinkler system would be required for the superintendent's office and was advised in the negative. Hand fire extinguishers will be provided.

e. The architect-engineer asked whether or not explosion-proof gear should be provided in the operator's room in each pump house. The conference decision was that such gear should be provided.

f. Design of the water supply system for the POL area at Haines was discussed. The architect-engineer was advised that the water supply system from the small creek west of the dry cargo dock would be designed by Earl and Wright at such point as to provide a water supply for the dry cargo dock, and that any additional design should be accomplished by The Fluor Corporation, Limited. The question of the availability of adequate water in the creek and from wells was discussed, but no final conclusions are possible at this time.

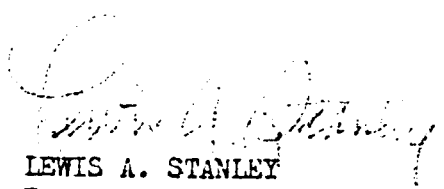
g. The architect-engineer also raised a question on design of the proposed POL dock at Haines, stating that his consultant was planning to use concrete-filled pipe piles, and these would be drilled and anchored into the rock bottom. He was advised by the representative of the Alaska District that such design should probably not be necessary in view of the depth and quality of overburden at the site which appeared to be ideal for a pile structure.

17 Dec. 1951

h. At the suggestion of North Pacific Division representative, the architect-engineer agreed to include in the plans for the 3-inch pumping station at Tok Junction the necessary valving so that the Canol pipeline can be used for back-pumping from Tok to Northway.

6. At the conclusion of the meeting, the architect-engineer presented some preliminary drawings of buildings and other features of the project with the idea that these may be reviewed in the Alaska District and any suggested changes or alterations which might be made at this time would be of assistance in completing the design of such structures.

7. The architect-engineer also submitted a report on the resistivity survey along the proposed pipeline and an analysis of the results of such survey showing the number and location of sacrificial anodes to be recommended for installation. He stated that the installation of such cathodic protection normally is performed by a special contractor experienced in that line of work.


LEWIS A. STANLEY
Engineer, Proj. Criteria Sec.