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NAS FORT WORTH
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LETTER REGARDING JP 4 PIPELINE IN FLIGHT LINE DITCH AND RECOMMENDATIONS
THAT THE PIPELINE BE TAKEN OUT OF SERVICE NAS FORT WORTH TX
1/10/1991
RADIAN CORPORATION

62 0



**NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 62

RADIAN
CORPORATION

File:
D.B. 17A-38
62 62

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10 January 1991

Mr. Karl Ratzlaff
HSD/YAQC
Building 624 West
Brooks AFB, Texas 78235-5501

Re: JP4 Pipeline in Flightline Ditch at Carswell AFB

Dear Karl:

During a phone conversation with Frank Grey on 9 January 1991, Frank informed me that there is a pipe in the Flightline Drainage Ditch which carries JP4 fuel to the flightline. This pipe is exposed in the bottom of the ditch and runs along the inside (concentric) of the culvert to the flightline. I have attached a photograph of this pipe at it enters the culvert.

Radian is recommending that this pipe be taken out of service and rerouted along a different path. The reason for this recommendation is because the present location in the ditch exposes the pipe to excessive loads and stresses during periods of flow, increasing the risks of a rupture as compared to most above ground installations.

Radian also recommends relocation because the ditch is a direct connection to surface water sources which would increase the severity of any release. Please realize that during periods of high flow the concentrations would be reduced by the volume of water present, but the release would be more wide spread. In addition, it would be difficult to detect leaks or ruptures during high flow periods because the pipe would not be visible when submerged. During periods of low flow the release would be more concentrated and limited to a smaller surface area. In either case, the consequences would be detrimental to the environment.

In summary, Radian recommends that this pipeline be rerouted as soon as possible. The present location is not a suitable route for a hydrocarbon pipe line because the ditch serves as a direct hydraulic connection to the environment and because the storm water flows in the ditch add unnecessary loads to the pipe.

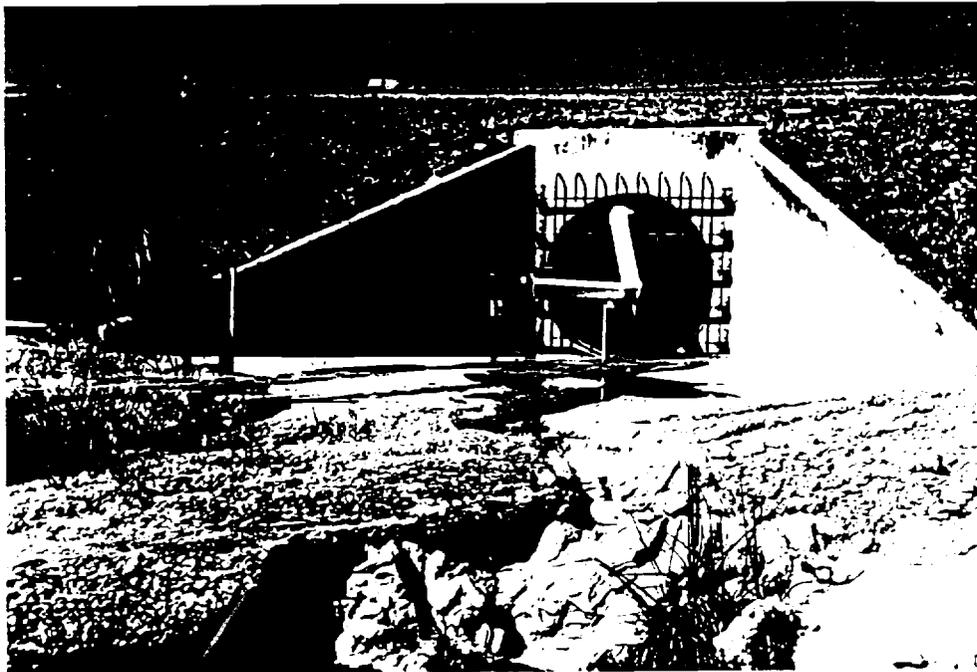
If you have any questions on this matter please do not hesitate to call.

Sincerely,



Stephen L. Scott

cc: Files 227-005-04-53
Frank Grey (7 CSG/DEEV)
W. L. Boettner
D. L. Richmann



FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE