

PENTAGON ENGINEERING LTD.

142 PENROSE COURT
PENTICTON, BC, V2A 9B6
TELEPHONE: (250) 809-9933

E-MAIL: P-ENG@OUTLOOK.COM

Date: February 16, 2016

City of Penticton AWWTP
459 Waterloo Ave
Penticton, BC

Via email: randy.craig@penticton.ca

Attention: Randy Craig

RE: Penticton AWWTP – Alternate Measures of Control (AMC), Primary Clarifiers (3)

Dear Mr. Craig,

The Armtec gates inlet and outlet are of adequate engineering, construction and maintenance to hold back the head applied to it for the time required to be in the confined space. The analysis of the gate as a control measure assumes that all gates leak. However, there is no expectation that a properly installed and maintained valve will fail catastrophically if no work is being performed on it which these gates are. It is recognized that systems will often permit some leakage; a means of pumping out the fluid should be undertaken. The upstream and downstream water should be continuously monitored and if the level rises too high that space should be evacuated.

Given these facts it is our opinion that the proposed AMC for entering the Primary Clarifiers (3) confined space is adequate. This AMC is adequate for one year and after that time it should be revisited to ensure its adequacy.

PENTAGON ENGINEERING LTD.

Per:



Rob Linder, P.Eng.
Director