

April 5, 1994



VIRGINIA POWER

Mr. R. W. Crisp
Regional Director
Federal Energy Regulatory Commission
3125 Presidential Parkway, Suite 300
Atlanta, Georgia 30340

Serial No. F93-018

Dear Mr. Crisp:

PROJECT NO. 6335-VA
NORTH ANNA HYDROELECTRIC PROJECT
TEN-YEAR SURVEY OF REFERENCE MONUMENTS AT MAIN DAM

Currently, the survey between the North Anna main dam's reference monuments and the United States Coast and Geological (USC&G) Survey monuments is performed once every ten years to verify the locations of the reference monuments. We have determined that the survey between the monuments does not provide significant information relative to settlement or horizontal movement of the dam. We have discussed this with Mr. J. C. Lyon, Jr. of your office.

The bases for our determination are the stability of the main dam's reference monuments and the relative distance between the main dam's monuments and those of the USC&G. The main dam's reference monuments are founded in rock and therefore are inherently more stable than the USC&G Survey monuments which are founded in soil. Additionally, the distance between the main dam's reference monuments and the USC&G Survey monuments used for horizontal measurements ($4\frac{1}{2}$ miles) can induce a relatively large degree of error compared to the accuracy of the annual survey (between the main dam's reference monuments and the dam's alignment settlement markers) and the indicated movement over the past twenty years. For vertical measurements, the distance between the USC&G monuments and the reference monuments ($1\frac{1}{2}$ miles) also potentially induces a relatively large error compared to the results of the annual surveys of the alignment settlement markers.

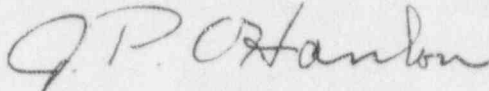
Discussions with Mr. J. C. Lyon, Jr. of your office indicated agreement that the distances between the North Anna main dam's reference monuments and the USC&G Survey monuments could induce significant survey errors which might tend to mask any actual movement of the dam's alignment settlement markers. Therefore, we propose to discontinue these surveys. Relative movement of the dam will continue to be monitored annually through the performance of surveys between the hydroelectric project's reference monuments and the survey blocks along the main dam.

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If you have any questions, please contact us.

Very truly yours,



J. P. O'Hanlon

cc: United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Docket Nos. 50-338 and 50-339
License Nos. NPF-4 and NPF-7

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Mr. R. D. McWhorter
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North Anna Power Station