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FEDERAL ENERGY REGULATORY COMMISSION
Office of Energy Projects
Division of Dam Safety and Inspections – New York Regional Office
Telephone No. (212) 273-5900

August 7, 2025

VIA Electronic Mail

Mr. Brad Zelonis
Constellation Energy Generation
Darlington, MD 21034
brad.zelonis@constellation.com

RE: Letter to Constellation Energy Generation regarding the 2025 Inspection of the Conowingo Project under P-405

Dear Mr. Zelonis:

This letter is a follow up to our inspection of the Conowingo project performed by Mr. Krishna Shadakopan on July 23, 2025. We appreciate the assistance you and your staff provided during the inspection. No signs of immediate dam safety concerns were observed during the inspection, but we have the following comments:

1. Deposit of debris and vegetation were found on a few of the spillway gate structures (Photo 1). Please clear all debris and vegetation from the gates prior to the next inspection and implement a routine maintenance program for the same.

2. Accumulation of debris was found on the upstream side of the Powerhouse Intakes and the Spillway gates (Photo 2). The debris poses a risk as they may cause issues for the gate operations and/or reduce the discharge capacity if clogged. Please monitor and clear the debris and implement a routine removal program.

3. Concrete deteriorations have been observed on the downstream face and the toe of the Spillway bays (Photos 3 and 4) and the Left Non-Overflow section (Photo 5). Please continue to monitor and assess their conditions and include/prioritize the repairs as needed in your ongoing Concrete Asset Management Program (CAMP).

4. Minor vegetation growing from the cracks/ deteriorations on the downstream face of the Spillway bays was noted during the inspection (Photo 6). Please continue to implement the routine vegetation control program for all the project structures.

5. There are existing cracks on the downstream and upstream walls of the inspection gallery that runs through the Spillway and the Non-Overflow Sections (Photo 7). Given that it has been proposed to drill and install piezometers in the gallery in near future, we recommend installing crack gages and collecting adequate baseline readings prior to the drilling activities to monitor and ensure that there are no adverse impacts to the cracks from the drilling work. Also please continue to monitor the cracks and ensure that they are not developing further.

6. A leakage from the upstream wall of the inspection gallery, in the vicinity of Crest Gate 21, was noted during the inspection (Photo 8). Please continue to monitor the leakage and ensure that it is not developing further. Consider repair measure(s), depending on the findings of the monitoring, if deemed appropriate.

7. Seepage in the confined space behind Units 8 to 11 that was noted during the 2023 and 2024 inspections continues to occur (Photo 9). During the 2024 inspection, it was found to be in a relatively more controlled fashion where it was being collected and pumped into a drain with no excess/ponded water, however the area was found slightly flooded during the 2025 inspection. The cause of the excess water might be increased seepage or any reduction in the pumping efficiency. As such, we recommend investigating this condition further and monitoring the seepage quantity with an appropriate means and method. We understand that a dye-test investigation is being planned to assess the source of the seepage as per our 2023 inspection recommendations. Please submit the results of dye test when it is available.

8. Ponded water was noted on the floor of the Elevation 65 powerhouse inspection tunnel, in the vicinity of Units 2 and 4 controls (Photos 10 and 11). Please investigate the cause of these conditions and remediate the leakage/flooding. In the meantime, please continue to monitor the areas and ensure that it is not developing further.

Please be advised that you may be notified at a later date with any additional comments that arise through our inspection report preparation. For any questions regarding this letter, please contact Mr. Krishna Shadakopan at (212) 273-5904 or by email at krishna.shadakopan@ferc.gov.

Sincerely,

JOHN SPAIN

Digitally signed by JOHN SPAIN
Date: 2025.08.06 14:18:28 -04'00'

John Spain, P.E.
Regional Engineer

Reference Photos
2025 Dam Safety Inspection
FERC Project No. P-405-MD

Photo 1 – Deposit of debris and vegetation on a few of the Spillway gates

Photo 2 – Debris on the upstream side of the Powerhouse Intakes and the Spillway gates

Reference Photos
2025 Dam Safety Inspection
FERC Project No. P-405-MD

Photo 3 – Concrete deteriorations on the downstream face and the toe of the Spillway bays

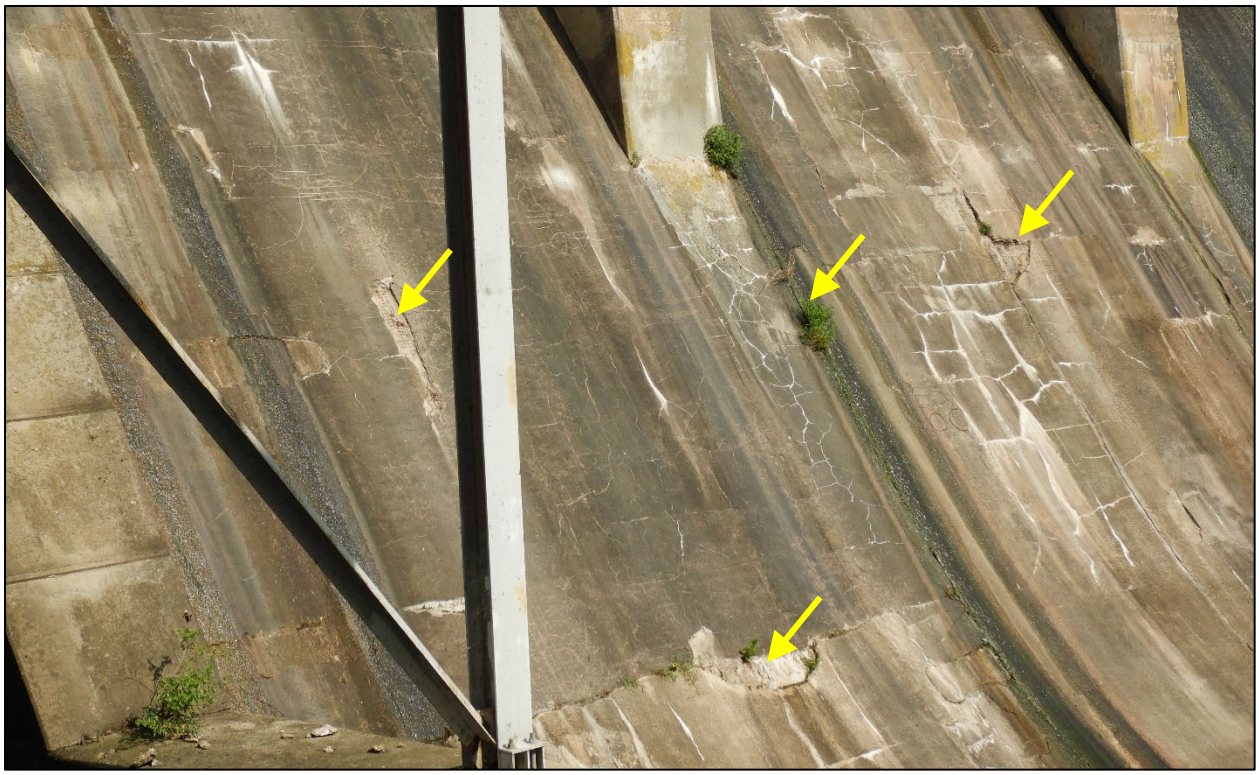

Photo 4 – Concrete deteriorations on the downstream face and the toe of the Spillway bays

Reference Photos
2025 Dam Safety Inspection
FERC Project No. P-405-MD

Photo 5 – Concrete deteriorations on the downstream face of the Left Non-Overflow section

Photo 6 – Vegetation growing from the cracks / deteriorations on the downstream face of the Spillway bays

Reference Photos
2025 Dam Safety Inspection
FERC Project No. P-405-MD

Photo 7 – Cracks on the downstream and upstream walls of the inspection gallery

Reference Photos
2025 Dam Safety Inspection
FERC Project No. P-405-MD

Photo 8 – Leakage from the upstream wall of the inspection gallery in the vicinity of Crest Gate 21

Photo 9 – Seepage with ponded water in the confined space behind Units 8 to 11 (it is being collected and pumped into a drain, but the floor is slightly ponded)

Reference Photos
2025 Dam Safety Inspection
FERC Project No. P-405-MD

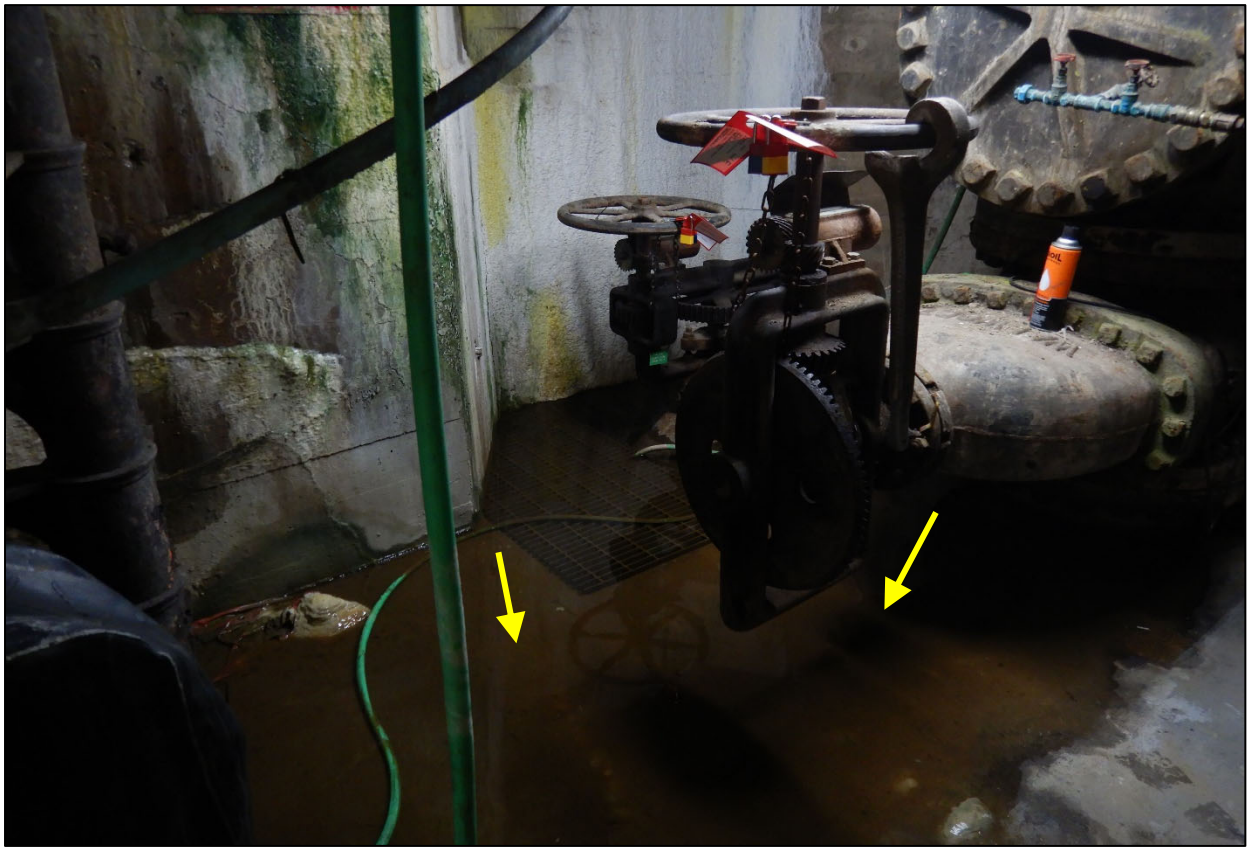

Photo 10 – Ponded water by the Unit 4 controls in the powerhouse inspection tunnel

Photo 11 – Ponded water by the Unit 2 controls in the powerhouse inspection tunnel

Document Content(s)