

**FEDERAL ENERGY REGULATORY COMMISSION**

**Office of Energy Projects**

**Division of Dam Safety and Inspections - Chicago Regional Office**

**230 South Dearborn Street, Suite 3130**

**Chicago, Illinois 60604**

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In reply, refer to: P-2785, P-10809, P-10810, and P-10808

September 20, 2018

Mr. Lee Mueller  
Boyce Hydro Power, LLC  
10120 West Flamingo Road, Suite #4-192  
Las Vegas, Nevada 89147

**Re: Focused Spillway Assessment, Spillway Gate Rating Curve, and Reservoir Drawdowns  
Sanford Hydroelectric Project (P-2785),  
Secord Hydroelectric Project (P-10809),  
Smallwood Hydroelectric Project (P-10810)  
Edenville Hydroelectric Project (P-10808)**

Dear Mr. Mueller:

This letter addresses the September 6, 2018 and September 9, 2018 Focused Spillway Inspection Water Management Plan for the above mentioned projects. You proposed to complete the spillway rating curve gate tests and inspections along with the focused spillway inspection in early October of 2018. Your submittal did address our August 16, 2018 comments.

We have the following comments:

1. During the proposed work, you will need to comply with the operation and flow requirements stipulated in the Commission's September 14, 2018 and September 19, 2018 Temporary Variance Orders..
2. You indicated that photographs of the water going around the piers, against the upstream face or under the gates, stilling basin/apron and tailwater area should be taken during the full gate test will be submitted with the report.
3. You indicated that the proper resources are allocated to ensure that gates being tested can be lowered in a timely manner if they become stuck in the open position.

4. The following table contains the target reservoir elevations (all elevations are at National Geodetic Vertical Datum) and schedules you propose for the work.

<b>Dam Name</b>	<b>Normal Pool Operating Level (ft.)</b>	<b>Target Pool Elevation (ft.)</b>	<b>Start of Drawdown</b>	<b>Date to begin refilling</b>
Secord Dam	750.8	746.8	9/24/2018 <sup>a</sup>	10/2/2018 (night)
Smallwood Dam	704.8	700.4	9/20/2018	10/4/2018 (night)
Edenville Dam	675.8	671.8	9/20/2018	10/5/2018 (night)
Sanford Dam	630.8	626.8	9/20/2018	10/6/2018 (night)

(a) Changed from request date of September 20, 2018 to September 24, 2018. Reservoir lowering is not needed to facilitate an inspection of an upstream spillway. Lowering is required to provide additional flood storage and gate inspection.

5. Your water management plan indicated that increased daily monitoring of well readings during the lowering and raising of the reservoirs.
6. Inspection dates must be coordinated with this office to avail scheduling of FERC staff.
7. The Spillway assessment for each project should contain, at a minimum, comments on the following:
- a. Location and size of any voids in the concrete slab.
  - b. Location, size, and condition of any cracks or construction joints in the concrete slab.
  - c. Location and size of any void underneath the concrete slab.
  - d. Background construction information as to slab thickness, rebar size and spacing, and foundation material.
  - e. Possibility of any slab displacement
  - f. Any observation related to any Potential Failure Mode (PFM) regarding the spillway slab or undermining of the spillway slab.
  - g. Review of the concrete abutment wall condition, construction, cracks, construction joints, and rebar.
  - h. Recommendations on improvements and plan and schedule to address the recommendations.

8. Your proposed water management plan, modified as necessary to accommodate the operation and flow release requirements of the Commission's September 14, 2018 and September 19, 2018 Temporary Variance Orders and the items listed above, is acceptable.
9. The individual focused spillway assessment reports along with the gate assessment and rating curves should be submitted **within 60 days of completion of the field inspections, and no later than December 28, 2018.**

You may contact Mr. Peter Chapman, P.E. at 312.596.4446 or me at 312.596.4430 if you have any questions or concerns pertaining to this letter.

Sincerely,

John A. Zygaj, P.E.  
Regional Engineer