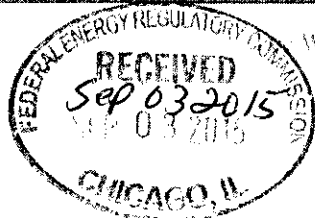


# BOYCE HYDRO POWER LLC

A W.D. Boyce Trusts Legacy Enterprise



W. Muelker & Stephen B. Hillberg, Co-Member Managers  
6060 S. Dearborn (PO Box 151)  
Edenville, MI 48620  
Tel: (517) 894-3461 Fax: (517) 894-6003

August 31, 2015

Mr. John A. Zygaj, PE  
Regional Engineer  
Federal Energy Regulatory Commission  
230 S. Dearborn St., Suite 3130  
Chicago, IL 60604

Re: P-2785, P-10808, P-10810, P-10809  
Spillway Gate Tests

Mr. Zygaj:

This is an update to our January 12, 2015 report on our program of enhancing the spillway gates at all of our projects so they may be raised higher than is capable with the original gate hoists. This program was presented on May 29, 2012 and subsequently reported on in our letters of October 2012, October 2013 and January 2015. Our objective has been to set up an auxiliary system, or replace hoists, to facilitate the raising of the gates to clear the profile of the spilling water when the reservoir level is at the top of the dam. As previously described we completed most of the work and successfully tested the remainder of gates at Secord, Smallwood and Edenville. Since our last report we have completed the work described below at our Sanford dam.

We had also previously purchased and installed three new permanent electric cable hoists at our Sanford Plant. These were installed in the fall of 2013 and have proven quite satisfactory. With these new hoists we are capable of lifting the gates directly to the desired position without needing the A-frame system. They were installed on gates 2, 3 and 4 at Sanford. We then purchased three additional hoists to be installed on gates 1, 5 and 6 at Sanford. In 2015 we strengthened the mounting beams at the two large gates and installed these three remaining hoists.

The test of these last three gates was conducted this summer with satisfactory results for gates 5 and 6. As experienced at some of our other sites, gate 1 adjacent to the powerhouse could not be raised to the full height desired because of interference with the powerhouse wall.

As stated above, our objective was to be able to raise all gates high enough to clear the upper nappe profile with the reservoir at the top of the dam. We are confident that this can be achieved on all but three gates. Gate Number 1 at Smallwood, Gate Number 1 at Edenville and Gate Number 1 at Sanford cannot be raise to above 11 feet because of restrictions caused by the shape of the powerhouse wall that the gates abut against. The maximum opening of these gates are shown on the accompanying table.

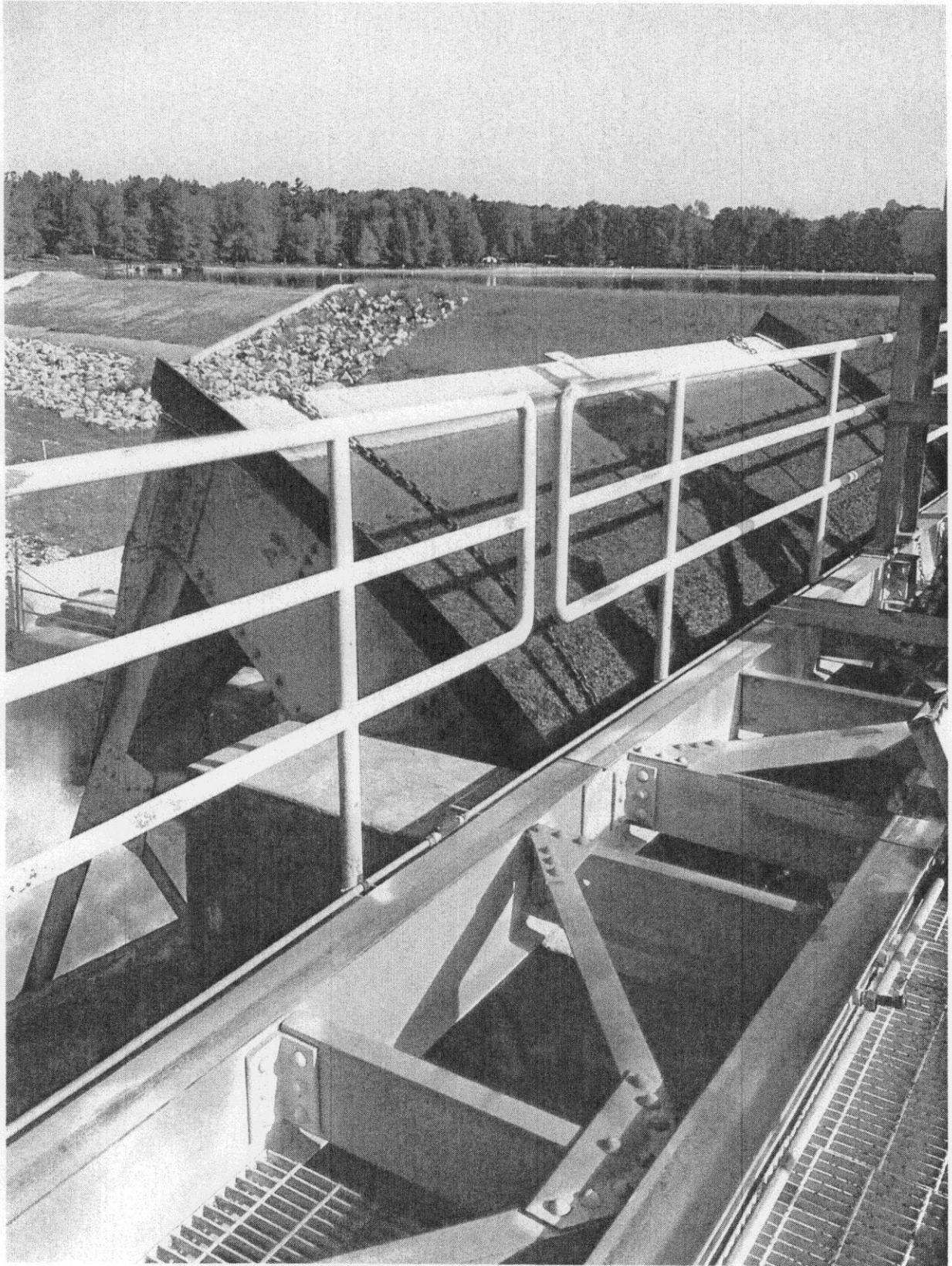
Sincerely,  
Boyce Hydro Power, LLC

A handwritten signature in black ink, appearing to read "Frank O. Christie". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Frank O. Christie, P.E.  
General Manager

cc: Lee W. Mueller, Co-Member Manager  
Stephen B. Hultberg, Co-Member Manager

BOYCE HYDRO POWER SPILLGATES											
Gate No.	Sill Elev.	Bot. Of Gate	Bot. Of Gate	Gate No.	Sill Elev.	Bot. Of Gate	Bot. Of Gate	Gate No.	Sill Elev.	Bot. Of Gate	Bot. Of Gate
SANFORD Pond EI 630.6											
1	622.3	630.8	N/A	Top 1 tested	667.8	675.3	679	1 tested	694.8	701.8	704.3
2	622.3	633.6	N/A	Top 2 tested	667.8	675.3	679	2 tested	694.8	701.8	705.8
3	622.3	633.6	N/A	Top 3 tested	667.8	675.3	679				
4	622.3	633.6	N/A	Eden 1 tested	667.8	675.3	679				
5	622.3	633.6	N/A	Eden 2 tested	667.8	675.3	679				
6	622.3	633.5	N/A	Eden 3 tested	667.8	675.3	679				
MAXIMUM Q WITH POND AT TOP OF DAM AND GATES AT MAXIMUM HEIGHT, cfs											
1	3700			Top 1	5520			1	4370		
2	4900			Top 2	4880			2	5930		
3	4900			Top 3	5520						
4	4900			Eden 1	3000						
5	4900			Eden 2	4880						
6	5580			Eden 3	5520						
SMALLWOOD Pond EI 704.8											
SECORD Pond EI 750.8											
1/14/2015											



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