

# BOYCE HYDRO POWER LLC

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28 March, 2011

Ms. Peggy A. Harding, PE  
Regional Engineer  
Chicago Regional Office  
Federal Energy Regulatory Commission  
230 South Dearborn Street, Room 3130  
Chicago, IL 60604  
tel: (312) 596-4438  
[peggy.harding@ferc.gov](mailto:peggy.harding@ferc.gov)



**Subject:** FERC Hydroelectric Projects  
Sanford P-2785, Edenville P-10808  
Smallwood P-10810, Secord P-10809  
Revised Master List & Priority Schedule

Dear Ms. Harding:

Attached are the revised Boyce Hydro Power, LLC Master List of Dam Safety Construction Projects & Priority Schedule. Also attached is Frank Christie's letter dated 24 March, 2011 supplementing previously supplied information regarding flow capacity for each site.

The Master Schedule submitted herewith represents a ten year total schedule which is based upon a logical sequence of construction activities to be undertaken by the licensee on phased basis. The new priority schedule emphasizes two years of intensive construction activity on the part of the licensee and its contractors beginning this year and concluding at the end of 2012. The goal is to complete virtually all dam safety construction projects not related to the Edenville PMF spillway alterations in the next two years.

Once the dam repair category of work is completed, the licensee will concentrate on and commence in the summer of 2013 the extensive undertaking associated with altering and increasing the spillway capacity of the six gates located in the Edenville Dam. This project, for reasons of: 1) construction staging, 2) factor of safety in maintaining existing discharge capacity, and 3) realistic economics of annual cash flow for payment of construction work, must be scheduled over an eight-year period of time.

Sincerely yours,

A handwritten signature in black ink that reads "Lee W. Mueller". The signature is written in a cursive style and is positioned above the printed name and title.

Lee W. Mueller, Architect  
Co-Member Manager  
**Boyce Hydro Power, LLC**

wp/LWM

cc: Frank O. Christie, P.E.  
Stephen C. Doret, P.E.

Encl.

**BOYCE HYDRO POWER, LLC**

*A W.D. Boyce Trusts Legacy Enterprise*  
**Stephen B. Hultberg & Lee W. Mueller, Co-Member Managers**  
 6000 S. M-30 (P.O.Box 15)  
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March 24, 2011      REVISED from 3/18/11

Ms. Peggy A. Harding, PE  
 Regional Engineer  
 Federal Energy Regulatory Commission  
 230 S. Dearborn St., Suite 3130  
 Chicago, IL 60604

Re: Master Schedule  
 P-2785, P-10808, P-10809, P-10810

Dear Ms. Harding:

We are writing to supplement the Master Schedule information submitted on March 16. In that submittal we neglected to provide the flow capacity information for each site. We are now providing same in relation to the currently proposed or accepted IDF/PMF.

<u>Project</u>	<u>IDF/PMF</u>	<u>Existing Capacity</u>	<u>% Max. Capacity</u>
	cfs	cfs	
P-2785, Sanford	37,000	37,000	100%
P-10808, Edenville	64,000	32,800	50%
P-10810, Smallwood	41,000	41,000	100%
P-10809, Secord	27,000	10,300	38%

Except for Smallwood, the existing capacity listed above is calculated with the reservoirs at top of the embankment. Smallwood Capacity is with the reservoir more than one foot below the top of the sheet pile wall.

Sincerely,  
 Boyce Hydro Power, LLC



Frank O. Christie, PE  
 General Manager

cc: Lee W. Mueller  
 Stephen Hultberg  
 Steve Doret

FERC ISSUES	March, 2011	BOYCE HYDRO POWER, LLC PRIORITY MATRIX				BOYCE HYDRO, LLC												
		PFMA Category	Needed for safe Operation Up to 10 yr flood	Needed for safe Operation Up to 100 yr flood	Needed for safe Operation Up to IDF/PMF	Priority Points	Year and Budget											Totals
							2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
<b>SANFORD P-2785</b>																		
Map and investigate embankment drains	IV	no	no	no	no	5		\$ 4,000									\$ 4,000	
Add Gate Hoists	II	no	no	yes	yes	9	\$ 25,000		\$ 20,000								\$ 45,000	
Repair undermined tailrace slab	II	yes	yes	no	yes	3		\$ 30,000									\$ 30,000	
Repair N. Pwrhse training wall	II	no	no	no	no	7		\$ 125,000									\$ 125,000	
Rebuild left tailrace retaining wall	IV	no	no	yes	yes	3		\$ 125,000									\$ 125,000	
Concrete repair of right retaining wall	IV	no	no	no	yes	5		\$ 56,000									\$ 56,000	
Repair spillway piers	IV	no	no	yes	yes	5		\$ 50,000									\$ 50,000	
Repair toe wall of spillway	II	no	no	no	yes	9	\$ 5,000		\$ 20,000								\$ 25,000	
Open drains behind concrete bag wall	II	yes	yes	yes	yes													
CSIR																		
Right Toe Filter, Right of Fuse Plug							\$ 190,000										\$ 190,000	
<b>EDENVILLE P-10808</b>																		
Spillway capacity improvement**	II	no	no	no	yes	5**			\$ 600,000	\$ 500,000	\$ 515,000	\$ 530,000	\$ 700,000	\$ 540,000	\$ 555,000	\$ 570,000	\$ 4,510,000	
Toe filter blanket & crest fill	II	yes	yes	yes	yes	9	\$ 200,000			\$ 5,000							\$ 200,000	
Map and investigate embankment Drains	IV	no	no	no	no			\$ 5,000									\$ 5,000	
Riprap in tailrace @ concrete bags	III	yes	yes	yes	yes	8	\$ 10,000		\$ 6,000								\$ 16,000	
From CSIR- Inspect gates								\$ 7,000									\$ 7,000	
- Underwater inspection								\$ 5,000									\$ 5,000	
- Repair Bay No. 1								\$ 7,000									\$ 7,000	
- Other minor issues																		
<b>Eden Total \$ 4,750,000</b>																		
<b>SMALLWOOD P-10810</b>																		
Riprap in Tailrace @ concrete bags	II	yes	yes	yes	yes	9	\$ 15,000										\$ 15,000	
Regrade embankment north of Sheet piling	II	no	no	yes	yes	7		\$ 20,000									\$ 20,000	
Add Gate Hoists	II	no	no	no	yes	5	\$ 15,000		\$ 10,000								\$ 25,000	
CSIR																		
<b>Secd. Total \$ 60,000</b>																		
<b>SECORD P-10809</b>																		
Concrete repairs at spillway & powerhouse	II	no	no	yes	yes	7	\$ 100,000	\$ 125,000									\$ 225,000	
Add Gate Hoists	II	no	no	no	yes	5		\$ 10,000									\$ 10,000	
Map and investigate embankment drains	IV	no	no	no	no	7		\$ 10,000									\$ 10,000	
Add riprap on upstream face embankment	II	no	no	yes	yes	7		\$ 15,000									\$ 15,000	
CSIR								\$ 15,000									\$ 15,000	
PMF Study		no	no	no	yes	2	\$ 24,000										\$ 24,000	
Extension of left embankment for PMF	II	no	no	no	yes	5		\$ 155,000									\$ 155,000	
<b>Sec. Total \$ 454,000</b>																		
** In accordance with our schedule developed in the November 2010 Design Report, this is an 8 year project.																		
As the work progresses the spillway capacity is increased with each succeeding step.																		
Priority Points: PFMA: I = 4, II = 3, III = 2, IV = 1																		
Need: Yes = 2, No = 0																		
<b>\$ 5,914,000</b>																		

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