

MEMORANDUM

Date: December 07, 2010
To: Water Right File 2-7379
From: medl
Re: concluding license review

On 12/07/2010 I was assigned to complete the review required before license can be issued for this right. I am familiar with the contents of Aaron Marshall's review memorandum and I will not repeat his evaluation in this memo.

Applicant

Permit to appropriate water #2-7379 for the Swan Falls project is held by Idaho Power Company. I verified the mailing address and corrected the correspondence flag in the database.

The FERC license #503 for the Swan Falls project was issued on 12/22/1982 to IPCO. It expired on 6/30/2010. Idaho Power Company filed an application with FERC for a new license on 6/26/2008 and is in the formal consultation phase of that effort. Idaho Code Section 42-203B(6) & (7) provides for a Director's review based on the expiration date of a major FERC license. Because a new FERC license has not been issued, I am unable to fix a new date for the Director's review, (see condition 4 on the license).

Source, Point of Diversion and Place of Use

The Swan Falls Dam crosses the Snake River, the boundary between Owyhee and Ada counties. Although the Swan Falls Project is within the Birds of Prey National Conservation Area, available Ada County taxlot information indicates that the permit holder owns the property at the point-of-diversion and the place-of-use.

The point-of-diversion and place-of-use shapes for this license were created by A Marshall and I agree with them.

The narrative section of the Field Examiners report lists 4 other rights associated with power production at the Swan Falls Project. Those licensed rights were: A2-100, A2-2032, A2-4000, A2-4001 and totaled 9450 cfs. As of the date of this memo three of those rights: 2-2032, 2-4000 and 2-4001, have been recommended in the SRBA with A and B splits to Idaho Power Company and The State of Idaho respectively. The recommended rights total 8400 cfs.

The points-of-diversion and places-of-use in the recommendations are different those created for this right. Correlation to the GIS shapes created for this right may be needed.

Water Use

The Swan Falls Project operates as a run-of-the-river plant. There is no significant storage.

The right holder provided documentation of a hydraulic capacity test conducted on May 17, 1995. The documentation indicates that the two new units at the Swan Falls power plant were capable of using 20,400 cfs. and this rate is the system capacity listed on the license.

On day of his exam, the examiner found 10,400 cfs total flowing through the Swan Falls power plant.

Each of two, equal-sized turbines was responsible for 5200 cfs. (The examiner does not provide a record of the companion power generation.) The examiner recommended that the right be issued a license for 6550 cfs, the maximum authorized by the permit 6550 cfs and higher than the rate he had witnessed in use.

I believe that the examiner based his recommendation on the two Hill Diagrams which were provided by the right holder, and which are appended to his field exam report. Those curves were developed from index testing of the two turbines. The curves show that the turbines are capable of using 8200 cfs each, in an operation mode that is not as extreme as the hydraulic capacity test. At 16400 cfs (8200 per unit) the power plant could beneficially use 8000 cfs more than has been authorized through existing rights. I agree with the rate recommended by the examiner. At the time of his exam, the power plant was capable of routinely using an additional 6550 cfs.

On April 10, 2009, A Marshall submitted an email request to Idaho Power for daily average generation data from for a period from 3/09/1994-4/1/1996. As of the date of this memo, I have no data confirming hydropower generation at the Swan Falls power plant.

Status and Combined Use

The FERC license for this project expired June 30, 2010. Idaho Power Company is pursuing relicensing of the project.

This right is one of a small group of rights authorizing diversion of water for power generation at Swan Falls. This right covers some of the additional water use resulting from the plant rebuild which was completed in 1994. The additional rate requested by this permit is consistent with the FERC authorized generation.

Calculations

The examiner calculated an annual volume based on the 6550 cfs but did not carry it into his recommendations. The Department's Beneficial Use Examination Rules require that an annual volume be determined for all water uses except municipal use and fire protection.

I calculated the licensed volume for this right consistent with guidance provided by Hearing Officer, Judge Schroeder in the hearing for right 01-7011. I did not require any confirmation of generation, nor did I verify that the source water was available. I based my volume recommendation on the size of the installed equipment, limited only by the rate authorized by this permit.

The volume calculation is: $6550 \text{ cfs} \times 366 \text{ days} \times 1.9835 \text{ (cfs to af conversion factor)}$ and equals 4,755,045 af which rounds to 4,760,000 AF.

ORIGINAL

SECRETARY OF THE
COMMISSION



June 24, 2008

2008 JUN 26 P 1:50

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 first Street, N.E.
Washington, D.C. 20426

FEDERAL ENERGY
REGULATORY COMMISSION

P-503-048

RE: Swan Falls Hydroelectric Project (FERC No. 503) Final Application for New License

Dear Secretary:

Pursuant to 18 CFR § 16.8 (d), enclosed for filing with the Federal Energy Regulatory Commission (Commission) are an original and eight copies of Idaho Power Company's Application for New License (Major Project—Existing Dam) for the Swan Falls Project.

As part of the filing, we have included an original and two copies each of a volume containing Exhibit F and the Supporting Design Report, which are labeled *Contains Critical Energy Infrastructure Information – Do Not Release*, and a volume containing confidential cultural resource reports, which are labeled *Contains Privileged Information – Do Not Release*. Additionally, we have included an original and two copies of Exhibit G drawings, along with a CD containing the geo-referenced electronic data for Exhibit G.

Also enclosed, pursuant to 18 CFR § 4.32 (b) (7), is a draft notice for the Commission's use in issuing public notice of the tendering for filing for this Application for New License.

Further, I hereby certify that copies, either electronic or printed, of the Application for New License for the Swan Falls Project are being sent to individuals on the attached distribution list, including public libraries, pursuant to 18 CFR § 4.32 (b) (3) and (4).

Please contact me with any questions regarding this filing.

Best regards,

Craig A. Jones
Relicensing Project Manager
Hydro Relicensing Department
(208) 388-2934
e-mail: cjones@idahopower.com

CAJ/ww

Encl.

Cc: John Blair, FERC

P.O. Box 70 (83707)
1221 W. Idaho St.
Boise, ID 83702

Issued Licensees

NOTE: The information contained in this document is for general guidance only. Information can change between scheduled monthly updates. If further assistance is required, please email Customer@ferc.gov or call 202-502-6036. Toll-free: 1-866-208-3372, 202-502-8559 TTY.

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Project Name	Licensee	Waterway	St	Auth KW	Issue Date	Expiration Date
1						
2						
3						
4						
5						
6						
7	KERR	CONF SALISH & KOOTENAI TRIBES (MT)	MT	1882.50	07/17/85	09/04/35
8	GREEN ISLAND	GREEN ISLAND POWER AUTHORITY	NY	6000	02/07/77	03/02/11
9	TWIN FALLS	IDAHO POWER CO (ID)	ID	42217	01/18/91	12/31/40
10	BEAR RIVER	PACIFIC CORP (OR)	ID	77000	12/22/03	11/30/33
46	BARTLETT FERRY	GEORGIA POWER CO (GA)	GA	165000	04/13/78	12/14/14
47	WALLENPAUPACK	PEL HOLTWOOD, LLC	PA	44000	07/08/05	06/30/45
48	SWAN FALLS	IDAHO POWER CO (ID)	ID	25000	11/22/82	06/30/10
49	SALUDA	SOUTH CAROLINA ELECTRIC GAS CO (SC)	SC	207300	06/01/84	08/31/10
50	MOTHER ANN LEE	LOCK 7 HYDRO PARTNERS, LLC	KY	2040	05/26/92	04/30/22
51	SKAGIT RIVER	SEATTLE CITY OF (WA)	WA	689400	05/16/95	04/30/25
52	STAIRS	PACIFIC CORP (OR)	UT	1200	09/30/99	06/30/30
53	KILARC - COW CREEK	PACIFIC GAS AND ELECTRIC CO (CA)	CA	4440	03/27/07	07/31/07
54	JORDAN DAM	ALABAMA POWER CO (AL)	AL	100000	10/27/80	07/31/07
55	BUCKS CREEK	PACIFIC GAS AND ELECTRIC CO (CA)	CA	84800	11/19/74	12/31/18
56	CHIGNIK	NORQUEST SEAFOODS, INC	AK	60	02/08/06	01/31/36
57	LOWER MONROE	MONROE CITY CITY OF (UT)	UT	250	06/02/05	01/31/36
58	LAKE CHELAN	PUD NO 1 OF CHELAN COUNTY (WA)	WA	59200	11/06/06	10/31/56
59	LAKE BLACKSHEAR	CRISP COUNTY POWER COMM (GA)	GA	15200	11/28/08	10/31/38
60	RIO BLANCO	PUERTO RICO ELECTRIC PWR AUTH (PR)	PR	5000	08/20/91	08/19/21
61	AMERICAN FORK	PACIFIC CORP (OR)	UT	950	11/24/75	10/31/00
62	SHAWANO	WOLF RIVER HYDRO LMT PARTNERSHIP	WI	700	05/16/97	04/30/37
63	TRINITY	TRINITY CONSERVANCY INC (WA)	WA	240	05/27/04	05/31/44
64	OURAY	JACOBSON ERIC R	CO	632	09/02/09	04/12/40
65	CLAYTOR	APPALACHIAN POWER CO (VA)	VA	75000	08/20/80	06/30/11
66	CALKINS BRIDGE	CONSUMERS ENERGY CO (MI)	MI	2550	01/15/10	04/10/40
67	DESLA-LENTERVILLE	PACIFIC GAS AND ELECTRIC CO (CA)	CA	26650	06/12/80	01/15/09
68	TROUT CREEK	WELLS RURAL ELECTRIC CO (NV)	NV	125	01/30/89	12/31/18
69	CUSHAW	VIRGINIA ELECTRIC & POWER CO (VA)	VA	7500	06/13/08	06/15/38
70	OTTUMWA	OTTUMWA CITY OF (IA)	IA	3200	04/30/08	04/30/38
71	MERVIN	PACIFIC CORP (OR)	WA	136000	06/26/08	05/31/58
72	ROCK ISLAND	PUD NO 1 OF CHELAN COUNTY (WA)	WA	409600	01/18/89	12/31/28
73	HYRUM	HYRUM CITY CORP (UT)	UT	400	08/01/08	07/31/38
74	SAFE HARBOR	SAFE HARBOR WATER POWER CORP (PA)	PA	380390	08/14/80	04/22/30