

MEMORANDUM

Date: May 17, 2010
To: Water Right File 47-7700 & 47-7702
From: Michele Edl
Re: chronological outline

I have been assigned to review the 3/4/2005 field exam for the above water rights and if possible issue licenses. In my review of the file documents, I found that the field examination did not provide all the information needed to confirm beneficial use in the period when the permits were in effect.

To supplement the IDWR records for these rights I requested and obtained copies of IPUC and FERC documents.

I created the chronological outline below to facilitate my licensing review.

1981

2/10/1981 Application for permits 47-7700 and 47-7702 were received in Western Region. This is the priority date for both permits.

5/13/1981 Permit 47-7702 approved. Proof due date is May 1, 1986.

7/31/1981 S&S Limited files FERC Application for exemption from licensing of a small hydroelectric project.

10/30/1981 The first Power Sales contract between S&S and Idaho Power is signed. The agreement was for a thirty-five term ending ~ Jan 1, 2017. The contract end-date is used for Director's review. The contract capacity was 445 kW and estimated production at 2,922,000 kWh per year.

11/20/1981 FERC issues exempt authorization to produce 166kW at the upper facility and 100kW at lower facility. The FERC authorized production is inconsistent with the capacity claimed and the production estimate in the Idaho Power-S&S Power Sales contract.

11/25/1981 to 12/8/1981 Security interest, Zions Leasing Co signs an agreement with S&S Limited to assign the Octotor 1981 Power Sales contract to Zions Leasing Co. There is no record of consent to this assignment from Idaho Power.

12/23/1981 Amendment #1 of 10/30/81 Power Sales agreement signed by Skeems and Idaho Power. Claimed capacity is amended to 532 kW and estimated production amended to 3,493,632 kWh per year.

1982

1/8/1982 47-7700 is amended to add a second POD and a second POU. An amendment fee is paid and the application is advertized again.

2/5/1982 Amended Permit 47-7700 approved. Proof due date is February 1, 1987.

Feb 1982 First power is produced from Mud Cr/S&S project

3/1/1982 The completion date given for the upper plant in a 1988 FERC inspection report.

3/15/1982 The Operation Date for sales agreement with Idaho Power. Although power was produced in February, power production was not considered stable or reliable enough until this date.

May 1982 Stream channel alteration permit was filed with COE

7/23/1982 IPCO letter to IPUC regarding overpayments to S&S.

1983

2/28/1983 Amendment #2 of 10/30/81 Power Sales agreement signed by Skeems and Idaho Power. This amendment is an agreement for repayment to Idaho Power of advanced funds. A copy of the agreement was forwarded to the IPUC 3/1/1983.

2/28/1983 and 6/9/1983 Start cards for 47-7702 received. Both cards claim a November 1981 construction start.

October 1983 Peak generation at Mud Cr/S&S during the development period. The 265 monthly average kW produced fits generally within the FERC authorization.

Timeline memo to file 47-7700 and 47-7702

1984

3/23/1984 Idaho Power letter to Skeem re Bypassing Protective Equipment. The letter gives formal notice of safety issues which began in 1982.

5/14/1984 The completion date for the lower plant according to 1988 FERC inspection report. The lower plant was probably not available for peak generation year

1985

12/4/1985 Banbury GWMA order

1986

2/24/1986 Glaser Land and Livestock files summary judgment in 5th District court against Skeems and S&S Limited Partnership

4/9/1986 Place-of-Use ownership in question. 5th District Court Opinion awards permits to Glaser in foreclosure proceedings.

5/1/1986 Proof due for 47-7702. The upper plant is shown as the only POU but only the lower plant has access to 10 cfs water from Sewer Creek.

5/30/1986 Both permits assigned from Skeems to Zions Leasing Co. However, this is in conflict with 5th District Court Opinion which awarded them to Glaser.

9/26/1986 Decree of Foreclosure issued from 5th District Court

12/2/1986 IDWR status letter. 47-7702 would have lapsed. Proof due notice was returned to IDWR unclaimed.

12/23/1986 FERC order granting S&S exemption from filing an EAP for the Mud Cr project

1987

1/16/1987 3-party (Glaser, Campbell and Zions) Real Property Sales Agreement filed with Twin Falls County Sheriff's office.

2/1/1987 Proof due for 47-7700. Both plants are listed as POU for 50 cfs from Mud Creek. Proof due extended by order to May 1, 1987 on the grounds that the Dept had failed to send notice.

2/22/1987 Assignment of both permits from Glaser to Zions

3/3/1987 Proof due notice for 47-7700 sent.

4/27/1987 Proof of Beneficial Use submitted by Scott Newbold of Zions for both permits 47-7700 and 47-7702.

No power was produced from July 1987 through August 1987.

After yearend 1987, the scale changes for generation data from the Mud Creek project in IPUC records. The scale change signals a change in generation capacity.

9/11/1987 Assignment of Power Sales Agreement from S&S to Zions Credit Corp

9/11/1987 Idaho Power letter consenting to Assignment of Amended Sales agreement. Idaho Power states that due to the projects significant underperformance, it has the right to terminate the contract.

11/18/1987 FERC requests that Zions submit drawings and descriptions before commencement of construction.

1988

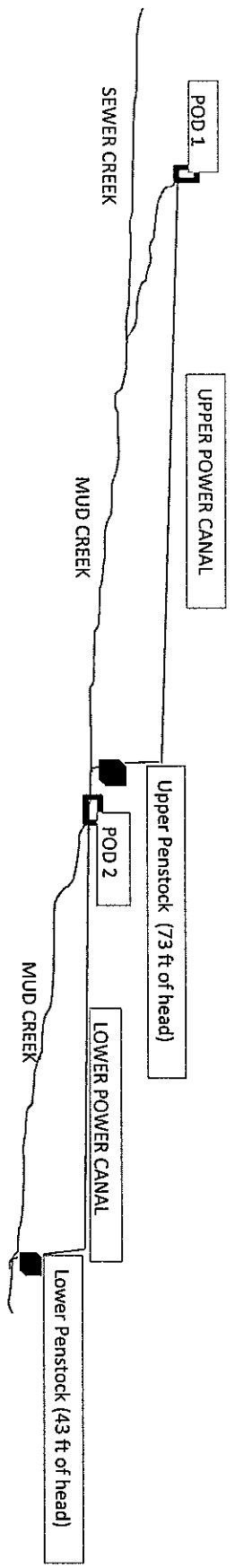
3/30/1988 FERC report of Mud Creek project inspection conducted 2/23/1988. Stated hydraulic capacity for each plant is 34 cfs.

7/1/1988 Amended FERC exemption issued. New generation authorizations: upper plant 435 kW, lower plant 220 kW. This is significantly different than original 266 kW total authorization.

12/17/2003 FERC amends capacity again based on 9/29/2003 submittal from HK Hydro. The upper plant consists of 3 units totaling 308.25 kW; the lower plant consists of 3 units totaling 316.25 kW. Total authorization 624.5 kW.

The beneficial use field exam was conducted on 3/4/2005 and would have found the powerplants as they were described to FERC in 2003. The IDWR field examiner confirmed beneficial use at hydro facilities that are considerably different than those that would have been in place when proof was submitted in 1987.

ELEVATION SCHEMATIC OF MUD CREEK HYDROS



created by Michele Edl
for 47-7700 and 47-7702

HYDROPOWER ANALYSIS SHEET

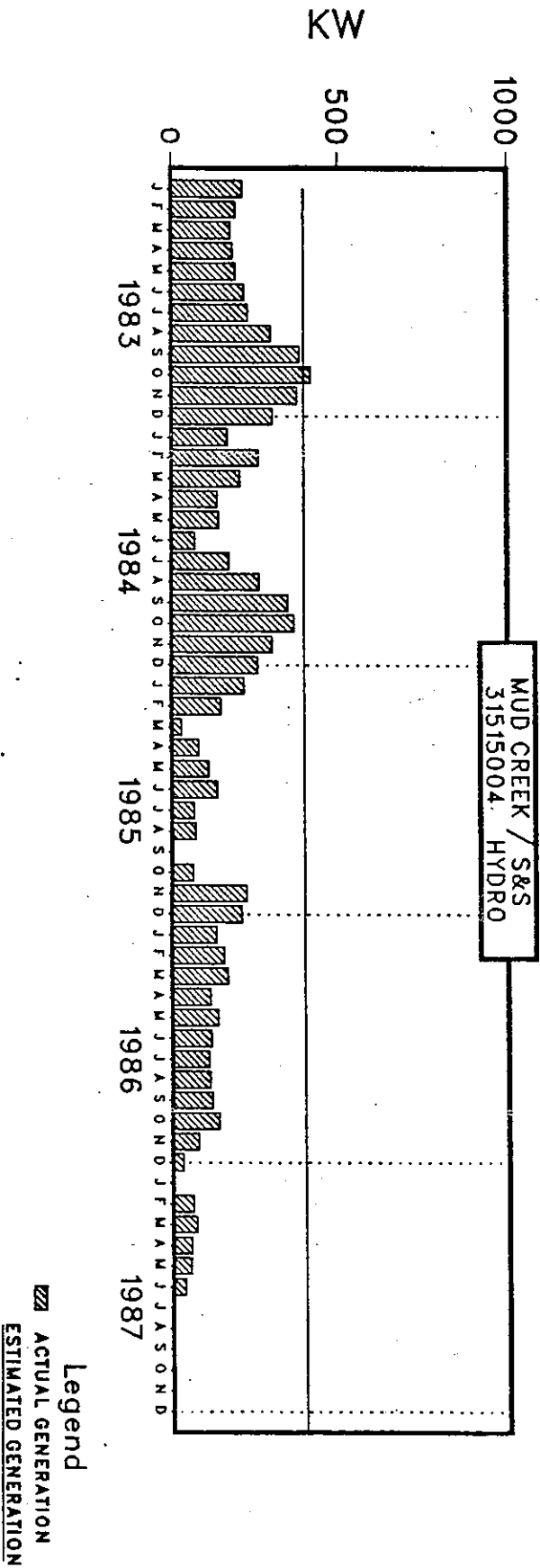
HK Hydro Upper Hydropower Plant near Buhl

Static Head ----- 73 Feet Nominal Pipe Size- 38.00 Inches I.D.
 Penstock Length - 190 Feet Turbine Type ----- UNKNOWN

	FLOW CFS	FLOW GPM	BYPASS CFS	POWER CFS	SPILL CFS	VELOCITY Feet/Sec	TOTAL EFFICY	NET HEAD	POWER WATTS	WEEKLY WATT-HRS
	0	0	0	0	0	0	0	73.00	0.00	
	0	0	0	0	0	0	0	73.00	0.00	
	0	0	0	0	0	0	0	73.00	0.00	
	5.00	2244.2	0	5.000	0.0	0.63	75	72.99	23175.46	
	7.00	3141.8	0	7.000	0.0	0.89	75	72.98	32,440.74	
	8.00	3590.6	0	8.000	0.0	1.02	75	72.97	37,071.74	
	9.00	4039.5	0	9.000	0.0	1.14	75	72.96	41,701.47	
	10.00	4488.3	0	10.000	0.0	1.27	75	72.95	46,329.78	
	11.00	4937.1	0	11.000	0.0	1.40	75	72.95	50,956.55	
	12.00	5386.0	0	12.000	0.0	1.52	75	72.94	55,581.64	
	13.00	5834.8	0	13.000	0.0	1.65	75	72.93	60,204.93	
	14.00	6283.6	0	14.000	0.0	1.78	75	72.91	64,826.29	
	15.00	6732.5	0	15.000	0.0	1.90	75	72.90	69,445.60	
	16.00	7181.3	0	16.000	0.0	2.03	75	72.89	74,062.72	
	17.00	7630.1	0	17.000	0.0	2.16	75	72.88	78,677.54	
	18.00	8079.0	0	18.000	0.0	2.29	75	72.86	83,289.92	
	19.00	8527.8	0	19.000	0.0	2.41	75	72.85	87,899.77	
	20.00	8976.6	0	20.000	0.0	2.54	75	72.83	92,506.94	
	21.00	9425.5	0	21.000	0.0	2.67	75	72.82	97,111.33	
	22.00	9874.3	0	22.000	0.0	2.79	75	72.80	101,712.81	
	23.00	10323.1	0	23.000	0.0	2.92	75	72.78	106,311.26	
	24.00	10771.9	0	24.000	0.0	3.05	75	72.77	110,906.58	
	25.00	11220.8	0	25.000	0.0	3.17	75	72.75	115,498.64	
	26.00	11669.6	0	26.000	0.0	3.30	75	72.73	120,087.33	
	27.00	12118.4	0	27.000	0.0	3.43	75	72.71	124,672.54	
	28.00	12567.3	0	28.000	0.0	3.56	75	72.69	129,254.14	
	29.00	13016.1	0	29.000	0.0	3.68	75	72.67	133,832.03	
	30.00	13464.9	0	30.000	0.0	3.81	75	72.65	138,406.10	
	31.00	13913.8	0	31.000	0.0	3.94	75	72.63	142,976.23	
	32.00	14362.6	0	32.000	0.0	4.06	75	72.60	147,542.31	
	33.00	14811.4	0	33.000	0.0	4.19	75	72.58	152,104.23	
	34.00	15260.3	0	34.000	0.0	4.32	75	72.56	156,661.88	
average	35.00	15709.1	0	35.000	0.0	4.44	75	72.53	161,215.15	
average	36.00	16158	0	36.000	0.0	4.57	75	72.51	165,763.93	
	37.00	16607	0	37.000	0.0	4.70	75	72.48	170,308.10	
	38.00	17056	0	38.000	0.0	4.82	75	72.45	174,847.58	
	39.00	17504	0	39.000	0.0	4.95	75	72.43	179,382.23	
	40.00	17953	0	40.000	0.0	5.08	75	72.40	183,911.96	
	41.00	18402	0	41.000	0.0	5.21	75	72.37	188,436.66	
	42.00	18851	0	42.000	0.0	5.33	75	72.34	192,956.22	
	43.00	19300	0	43.000	0.0	5.46	75	72.31	197,470.54	
	44.00	19749	0	44.000	0.0	5.59	75	72.28	201,979.50	
	45.00	20197	0	45.000	0.0	5.71	75	72.25	206,483.01	
	46.00	20646	0	46.000	0.0	5.84	75	72.22	210,980.95	
	47.00	21095	0	47.000	0.0	5.97	75	72.19	215,473.23	
	48.00	21544	0	48.000	0.0	6.09	75	72.16	219,959.74	
	49.00	21993	0	49.000	0.0	6.22	75	72.13	224,440.37	
	50.00	22442	0	50.000	0.0	6.35	75	72.09	228,915.01	
	51.00	22890	0	51.000	0.0	6.48	75	72.06	233,383.58	
	52.00	23339	0	52.000	1.0	6.60	75	72.02	237,845.95	
	53.00	23788	0	53.000	2.0	6.73	75	71.99	242,302.03	
	54.00	24237	0	54.000	3.0	6.86	75	71.95	246,751.72	
	55.00	24686	0	55.000	4.0	6.98	75	71.92	251,194.91	
	56.00	25135	0	56.000	5.0	7.11	75	71.88	255,631.50	
	57.00	25583	0	57.000	6.0	7.24	75	71.84	260,061.39	
peak	58.12	26085	0	58.117	7.0	7.38	75	71.80	265,000.00	

					IPUC/IPCo data	
					eom avg kW	watts
					49	49,000
					59	59,000
					58	58,000
					57	57,000
					101	101,000
					154	154,000
					167	167,000
					220	220,000
					241	241,000
					226	226,000
					176	176,000
Based on GOAL-SEEK						
total monthly cfs	avg monthly cfs required					
if avg cfs-month	for avg eom kW given	days/month	month			
920.39	29.69	31	jan		137	137,000
727.44	25.98	28	feb		120	120,000
819.02	26.42	31	mar		122	122,000
740.1	24.67	30	apr		114	114,000
778.41	25.11	31	may		116	116,000
844.8	28.16	30	jun		130	130,000
934.03	30.13	31	jul		139	139,000
1281.54	41.34	31	aug		190	190,000
1520.7	50.69	30	sep		232	232,000
1801.72	58.12	31	oct	peak	265	265,000
1534.2	51.14	30	nov		234	234,000
1213.34	39.14	31	dec	yr avg 1983=	164.9167	180,000
sum	13115.69	430.59	365			101,000
		35.58636364				139,000
						128,000
						88,000
13115.69	cfs				82	82,000
1.9835	convert to AF				51	51,000
26014.97112	AF				0	-
26000	rounded AF				163	163,000
					235	235,000
					245	245,000
					185	185,000
				yr avg 1984=	132.1667	169,000
					135	135,000
					75	75,000
					1	1,000
					46	46,000
					66	66,000
					86	86,000
					56	56,000
					50	50,000
					0	-
					36	36,000
					159	159,000
				yr avg 1985=	71.25	145,000

IDAHO POWER COMPANY Cogeneration and Small Power Production



IDAHO POWER COMPANY
COGENERATION AND SMALL POWER PRODUCTION
MONTHLY GENERATION BY PLANT (AVERAGE KW)

1982	JAN82	FEB82	MAR82	APR82	MAY82	JUN82	JUL82	AUG82	SEP82	OCT82	NOV82	DEC82
31515004 MUD CREEK/S&S	0	49	59	58	57	101	154	167	220	241	226	176
31416001 SHOSHONE	0	0	0	0	0	242	271	221	314	182	180	137
TOTAL	0	49	59	58	57	343	425	387	534	422	406	313
1983	JAN83	FEB83	MAR83	APR83	MAY83	JUN83	JUL83	AUG83	SEP83	OCT83	NOV83	DEC83
31515004 MUD CREEK/S&S	137	120	122	114	116	130	139	190	232	265	234	180
31416001 SHOSHONE	102	14	152	222	270	209	280	225	282	230	250	123
11766002 TAMARACK	0	0	0	0	2200	4038	3851	3824	3688	4151	3528	1561
31415017 NORTHSIDE CANAL Y-8	0	0	0	0	42	40	83	80	81	79	59	14
31415023 CURRY CATTLE CO.	0	0	0	0	0	147	215	211	154	68	0	0
11415005 SHINGLE CREEK	0	0	0	0	0	0	62	67	60	53	47	37
31615003 ROCK CREEK #1	0	0	0	0	0	0	0	0	1565	1948	1246	1419
31515009 MALAD RIVER	0	0	0	0	0	0	0	0	0	0	0	26
31516014 CLEAR SPRINGS TROUT	0	0	0	0	0	0	0	0	0	0	413	375
31416013 BOX CANYON	0	0	0	0	0	0	0	0	0	0	0	0
31615030 KOYLE	0	0	0	0	0	0	0	0	0	0	0	0
31615031 KASEL & WITHERSPOON	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	239	134	274	336	2627	4564	4630	4598	6262	6793	5776	3736
1984	JAN84	FEB84	MAR84	APR84	MAY84	JUN84	JUL84	AUG84	SEP84	OCT84	NOV84	DEC84
31515004 MUD CREEK/S&S	101	139	128	88	82	51	0	163	235	245	185	169
31416001 SHOSHONE	0	0	136	292	296	236	235	308	265	213	227	0
11766002 TAMARACK	2400	2613	3641	3891	4250	4508	5051	3181	4754	4670	4217	4376
31415017 NORTHSIDE CANAL Y-8	0	0	22	23	46	87	81	82	80	63	42	3
31415023 CURRY CATTLE CO.	0	0	0	22	182	182	225	221	184	85	0	0
11415005 SHINGLE CREEK	36	38	43	60	69	73	77	76	77	102	128	93
31615003 ROCK CREEK #1	1230	1261	1494	1495	1012	1103	1396	1534	1397	825	1008	1126
31515009 MALAD RIVER	60	0	0	0	429	285	492	617	606	578	579	109
31416014 CLEAR SPRINGS TROUT	381	406	132	414	408	410	364	350	414	416	415	195
31416013 BOX CANYON	88	265	192	200	180	167	248	267	257	204	185	232
31615030 KOYLE	161	0	0	444	672	742	588	722	807	772	839	66
31615031 KASEL & WITHERSPOON	0	32	283	318	530	799	552	741	861	581	450	329
44767012 AFTON	0	664	153	1565	1790	2167	501	4103	2588	1188	2472	3677
31214058 BIRCH CREEK	0	0	0	4	9	16	21	22	0	0	40	48
31316010 STEVENSON #1	0	0	0	36	33	31	32	32	34	34	34	36
31415065 BLACK CANYON NO. 3	0	0	0	0	120	69	50	63	93	60	0	0
31616081 CEDAR DRAW	0	0	0	0	43	950	730	932	1211	1059	441	392
31316011 STEVENSON #2	0	0	0	0	0	0	21	31	31	26	23	26
31415094 JIM KNIGHT	0	0	0	0	0	0	0	0	99	71	0	0
31416020 CANYON SPRINGS	0	0	0	0	0	0	0	0	34	86	78	81
31615067 PIGEON COVE	0	0	0	0	0	0	0	0	0	346	842	810
31315021 SNAKE RIVER POTTERY	0	0	0	0	0	0	0	0	0	0	13	45
31316015 LEMOYNE	0	0	0	0	0	0	0	0	0	0	0	0
31414075 SNEDIGAR RANCH	0	0	0	0	0	0	0	0	0	0	0	1
31715089 LOWLINE CANAL	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4457	5417	6223	8854	10153	11875	10663	13444	14027	11625	12227	12039

IDAHO POWER COMPANY
COGENERATION AND SMALL POWER PRODUCTION
MONTHLY GENERATION BY PLANT (AVERAGE KW)

1985		JAN85	FEB85	MAR85	APR85	MAY85	JUN85	JUL85	AUG85	SEP85	OCT85	NOV85	DEC85
31515004	MUD CREEK/S&S	135	75	1	46	66	86	56	50	0	36	159	145
31416001	SHOSHONE	0	0	24	303	275	287	305	310	270	218	149	67
11766002	TAMARACK	4347	4425	4214	4387	4058	4701	4735	4688	4492	3528	4291	4703
31415017	NORTHSIDE CANAL Y-8	0	0	0	25	78	80	72	73	61	39	0	0
31415023	CURRY CATTLE CO.	0	0	0	71	209	244	242	142	137	107	33	0
11415009	SHINGLE CREEK	102	89	93	115	160	191	172	143	124	113	102	94
31415003	ROCK CREEK #1	881	853	967	1397	1965	2001	1994	2042	1580	1709	1763	1291
31515009	MALAD RIVER	83	141	410	273	622	606	365	273	589	348	289	154
31416014	CLEAR SPRINGS TROUT	426	429	425	417	404	417	410	398	415	416	397	413
31416013	BOX CANYON	208	222	237	217	224	252	242	235	226	228	217	235
31615030	KOYLE	0	0	184	758	922	843	629	562	833	459	243	145
31615031	KASEL & WITHERSPOON	280	258	191	226	446	641	532	502	850	834	587	0
44767012	AFTON	4090	2345	4954	4847	5203	3799	1594	5637	6281	5553	6119	5352
31214058	BIRCH CREEK	46	45	45	35	29	41	49	56	57	51	46	43
31316010	STEVENSON #1	33	34	34	34	31	34	33	35	33	33	33	33
31415065	BLACK CANYON NO. 3	0	0	0	0	79	74	31	55	45	21	0	0
31616081	CEDAR DRAW	319	340	259	701	1130	941	632	980	1224	1451	1024	426
31316011	STEVENSON #2	27	23	22	14	22	24	22	18	17	3	20	24
31415094	JIM KNIGHT	0	0	0	34	110	89	124	195	139	68	28	0
31416020	CANYON SPRINGS	75	100	101	98	94	108	106	105	69	86	91	93
31615067	PIGEON COVE	630	577	502	696	1317	1589	1554	1781	1873	1850	1384	807
31315021	SNAKE RIVER POTTERY	64	64	65	47	38	39	42	42	42	53	68	67
31316015	LEMOYNE	7	23	24	18	23	22	12	21	22	18	24	24
31414075	SNEDIGAR RANCH	144	215	177	189	226	315	316	316	456	408	255	231
31715099	LOWLINE CANAL	0	0	-1	336	4373	7318	7341	6870	5346	3785	1550	-4
31315093	HAILEY CSPP	0	6	45	38	43	48	43	41	36	36	15	1
31615105	LITTLE WOOD RIV. RES.	0	45	1023	1990	1556	1588	1170	13	0	0	3	0
31615056	LATERAL #10	0	0	0	0	761	1008	221	330	1805	1904	1960	1552
11866066	B.C. EMMETT	0	0	0	0	0	5880	10235	10972	8139	7774	7391	8904
31515103	SAGEBRUSH	0	0	0	0	0	0	0	65	256	58	13	0
31315029	WHITE WATER RANCH	0	0	0	0	0	0	24	35	48	619	104	99
31615117	MARCOS RANCHES	0	0	0	0	0	0	165	402	646	619	285	0
12616071	OWYHEE DAM	0	0	0	0	0	0	0	3421	0	0	1	-19
31315008	H.E.E.D. CO.	0	0	0	0	0	0	0	0	24	4540	21	6
31515100	BRIGGS CREEK	0	0	0	0	0	0	0	0	2	377	446	433
31615057	CRYSTAL SPRINGS	0	0	0	0	0	0	0	0	0	0	0	0
41455091	POCATELLO WASTE	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	11896	10310	13997	17411	24465	33267	33466	40823	36139	36803	29121	25317

IDAHO POWER COMPANY
COGENERATION AND SMALL POWER PRODUCTION
MONTHLY GENERATION BY PLANT (AVERAGE KW)

1986	JAN86	FEB86	MAR86	APR86	MAY86	JUN86	JUL86	AUG86	SEP86	OCT86	NOV86	DEC86
31515004	MUD CREEK/S&S	95	116	119	77	92	81	77	78	84	69	12
31416001	SHOSHONE	84	95	185	288	308	227	299	292	303	280	126
11766002	TAMARACK	4717	4213	3980	4437	2740	4850	4967	4879	4492	4324	4537
31415017	NORTHSIDE CANAL Y-8	-6	0	0	40	65	53	50	62	56	28	16
31415023	CURRY CATTLE CO.	89	94	126	169	188	190	216	219	167	0	0
11415009	SHINGLE CREEK	1135	1593	1720	1877	192	192	187	163	143	109	99
31615003	ROCK CREEK #1	228	502	572	538	580	564	405	662	670	677	1075
31515009	MALAD RIVER	419	421	422	190	259	425	434	417	423	430	434
31516013	CLEAR SPRINGS TROUT	242	237	186	169	178	199	243	253	235	207	205
31615030	BOX CANYON	244	391	701	566	768	690	743	895	879	857	442
31615031	KOYLE	309	311	253	412	660	873	805	697	842	531	358
44767012	KASEL & WITHERSPOON	5886	5198	5723	6246	4987	6246	6363	6298	6436	5039	5220
31214058	AFTON	42	42	41	34	40	43	47	49	52	52	50
31316010	BIRCH CREEK	33	34	31	33	32	33	35	32	33	33	34
31415005	STEVENSON #1	0	0	0	28	65	56	53	39	109	96	4
31616081	BLACK CANYON NO. 3	389	289	349	1137	1260	1093	872	504	1420	541	409
31316011	CEDAR DRAV	20	22	17	4	17	10	12	12	15	6	6
31415094	STEVENSON #2	0	15	89	125	231	271	218	202	148	146	85
31416020	JIM KNIGHT	103	82	85	92	82	97	100	99	96	95	101
31615067	CANYON SPRINGS	719	695	623	926	950	1195	1634	1603	1808	873	799
31315021	PIGEON COVE	64	68	45	8	34	36	42	45	28	63	76
31316015	SNAKE RIVER POTTERY	25	24	25	23	21	23	22	342	244	25	25
31414075	LEMOYNE	212	224	263	278	301	300	338	342	411	225	189
31715099	SNEDIGAR RANCH	-4	-2	-1	3001	7408	7463	7584	7843	6707	-6	-6
31315093	LOWLINE CANAL	19	21	24	26	28	30	32	30	23	25	47
31615105	HAILEY CSP	1283	1087	1436	1245	2731	2777	2404	915	1514	8837	665
31615066	LITTLE WOOD RIV. RES.	8522	6650	1251	6651	7956	11107	11266	1229	1726	10416	10416
31515103	B.C. EMMETT	-8	-2	54	6651	7956	11107	11266	1229	1726	10416	10416
31315029	SAGEBRUSH	105	107	91	90	61	50	82	159	169	131	115
31615117	WHITE WATER RANCH	0	0	0	199	515	656	636	776	1106	799	132
12616071	MARCOS RANCHES	-25	2408	5076	5066	5234	5091	636	84	4814	1475	3458
31315008	ONYHEE DAM	7	11	10	7	23	24	24	0	0	0	0
31515100	H.E.D. CO.	429	433	442	448	446	445	455	488	525	549	510
31615057	BRIGGS CREEK	34	0	76	1263	1725	1324	1056	1220	1755	457	282
41455091	CRYSTAL SPRINGS	154	146	148	156	151	147	138	126	123	156	152
31414111	POCATELLO WASTE	67	94	86	19	34	1	0	40	156	134	118
11111111	MUD CREEK/WHITE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11615077	SIMPLLOT POCATELLO	0	0	0	312	1034	1460	525	0	63	259	59
21415119	ELK CREEK	0	0	0	0	71	170	213	0	237	276	239
31515107	REYNOLDS IRRIGATION	0	0	0	0	0	0	0	226	237	112	239
41515122	LITTLEWOOD/ARCOOSH	0	0	0	0	0	0	0	595	852	769	428
31615098	SCHAFNER	0	0	0	0	0	0	0	95	135	92	71
31415027	GEOBON 2	0	0	0	0	0	0	0	0	0	762	463
	TROUT CO.	0	0	0	0	0	0	0	0	0	1	155
	TOTAL	25633	26265	24186	38689	44312	51376	50520	45073	45545	30885	32102

IDAHO POWER COMPANY
COGENERATION AND SMALL POWER PRODUCTION
MONTHLY GENERATION BY PLANT (AVERAGE KW)

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1987	JAN87	FEB87	MAR87	APR87	MAY87	JUN87	JUL87	AUG87	SEP87	OCT87	NOV87	DEC87
31515004	MUD CREEK/S&S	0	43	50	50	46	27	0	10	122	25	117
31416001	SHOSHONE	0	141	173	208	279	277	284	180	70	167	83
11766002	TAMARACK	4925	4773	4391	4452	3967	5130	4663	4476	3800	4507	4971
31415017	NORTHSIDE CANAL Y-8	4	0	4	51	68	92	66	67	21	7	14
31415023	CURRY CATTLE CO.	0	0	0	115	234	219	222	180	95	0	0
11415009	SINGLE CREEK	89	85	90	114	188	154	106	90	85	85	78
31615003	ROCK CREEK #1	967	921	898	1249	1603	1874	1921	1929	1991	1577	1185
31515009	MALAD RIVER	122	265	257	316	315	287	259	1434	146	34	85
31516014	BOX CANYON	436	439	436	425	431	424	404	430	139	363	434
31416013	BOX CANYON	231	261	261	265	251	258	241	234	233	246	257
31615030	KOYLE	95	188	270	503	844	590	433	442	181	20	39
31615031	KASEL & WITHERSPOON	316	270	262	298	566	385	555	782	697	455	251
44767012	AFTON	6073	5269	6237	5864	5520	5456	5726	6442	5542	4471	6066
31214058	BIRCH CREEK	47	47	45	30	40	45	46	51	47	50	49
31316010	STEVENSON #1	32	33	34	26	33	33	34	35	35	24	34
31415065	BLACK CANYON NO. 3	0	0	0	45	108	83	75	118	44	0	0
31616081	CEDAR DRAW	325	282	250	641	434	601	614	1264	1169	366	543
31316011	STEVENSON #2	34	32	30	31	30	29	34	32	26	30	32
31415094	JIM KNIGHT	0	41	0	89	205	216	185	183	63	36	37
31416020	CANYON SPRINGS	95	100	93	95	87	102	107	90	92	120	129
31615067	PIGEON COVE	607	562	446	732	1311	1529	1425	1756	1576	891	792
31316015	SNAKE RIVER POTTERY	25	26	26	71	4	36	38	39	42	56	63
31315021	LEMOYNE	186	170	146	190	225	21	23	22	24	24	24
31414075	SNEDEGAR RANCH	10	12	146	3166	7404	7020	7315	6063	3592	227	208
31715099	LOWLINE CANAL	-10	-12	-6	8	15	38	38	35	37	-2	-15
31315093	HAILEY CSCP	46	47	47	555	1081	988	445	51	-3	38	36
31615105	LITTLE WOOD RIV. RES.	0	-8	-2	1629	768	1114	1385	1772	1313	1871	1648
31615056	LATERAL #10	1305	754	483	1629	768	1114	1005	1385	1313	1871	1648
11866066	B.C. EMLETT	9437	10240	9820	3988	2287	11592	10681	7582	10435	6518	9561
31515103	SAGEBRUSH	0	0	0	36	373	214	247	173	76	30	-5
31315029	WHITE WATER RANCH	141	123	133	117	103	106	82	52	98	143	126
31615117	MARCOS RANCHES	0	0	0	359	682	562	632	1014	390	0	0
12616071	OWYHEE DAM	-20	-21	4879	5041	4932	4775	4329	3891	2683	-21	16
31315008	H.E.D. CO.	13	8	9	6	20	3	12	6	35	28	493
31515100	BRIGGS CREEK	490	487	442	433	416	460	496	515	506	528	175
31615057	CRYSTAL SPRINGS	209	76	75	750	592	849	673	1929	1582	267	72
41455091	POCATELLO WASTE	123	156	150	152	118	169	148	170	168	185	175
31414111	MUD CREEK/WHITE	79	78	57	21	0	0	10	123	138	127	105
11111111	SIMPLLOT POCATELLO	0	0	0	0	0	0	0	0	0	0	0
11615077	ELK CREEK	-11	30	312	1354	1769	831	0	-2	0	-4	-10
21415119	REYNOLDS IRRIGATION	190	237	194	103	80	115	179	206	173	210	206
31515107	LITTLEWOOD/ARKOOSH	182	274	254	516	725	750	791	672	234	108	160
41515122	SCHAFFNER	54	44	39	169	332	286	130	82	67	53	47
31615098	GEORON 2	184	302	315	575	832	170	829	731	246	8	144
31415027	TROUT CO.	154	143	156	79	56	50	75	122	129	141	142
31615121	FAULKNER RANCH	0	0	0	0	0	0	420	664	200	42	85
41415124	SUNSHINE POWER #2	0	0	0	0	0	0	0	0	0	0	0
TOTAL	27230	26968	31821	34942	39393	48913	45924	46465	45476	38643	24050	28482