

RECEIVED

AUG 18 2004

FORM 202
12/99

Ident. No. 37-21297

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APR 22 2004

DEPARTMENT OF
WATER RESOURCES

DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

Department of Water Resources
Southern Region

1. Name of Applicant William Arkoosh Phone (208) 539-5443

Mailing address 2005 Highway 26, Gooding, ID 83330

2. Source of water supply Little Wood River which is a tributary of Malad River

3. Location of point of diversion is Township 5S Range 16E Sec. 26, in the NE $\frac{1}{4}$,
NE $\frac{1}{4}$, NE $\frac{1}{4}$, Govt. Lot Boise Meridian, B.M., Lincoln County;

additional points of diversion if any: _____

4. Water will be used for the following purposes:

* Amount 600 cfs for power generation purposes from Jan 1 to Dec 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) 600 cfs and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source rock rubble diversion, 8 ft high
at mid-channel

b. Height of storage dam none feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet

d. Is ground water with a temperature of greater than 85°F being sought? _____

e. If well is already drilled, when? _____; Drilling firm _____;
Well was drilled for (well owner) _____; Drilling Permit No. _____

7. Time required for completion of works and application of water to proposed beneficial use is 15 w.a. years (minimum 1 year)

8. Description of proposed uses (if irrigation only, go to item 9):

a. Hydropower; show total feet of head and proposed capacity in kW. 45 ft, 1900 kW
b. Stockwatering; list number and kind of livestock. _____
c. Municipal; show name of municipality. _____
d. Domestic; show number of households. _____
e. Other; describe fully. _____

3. Description of place of use:

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5S	16E	26					P	P											

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. No. 37-7943, 600 cfs for power generation, diverted ~ 2 miles downstream from new proposed diversion

11. a. Who owns the property at the point of diversion? William Arkoosh (applicant)

b. Who owns the land to be irrigated or place of use? William Arkoosh (applicant)

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____

12. Remarks: Water to be returned to Little Wood River after use (see attached map)

W a. ~~Power house will be placed in one of the three~~
~~tracks listed on map, mine depending on the~~
~~best economical location.~~

13. MAP OF PROPOSED PROJECT REQUIRED - Attach an 8½"x11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. (A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.)

BE IT KNOWN that the undersigned hereby makes this application for permit to appropriate the public waters of the State of Idaho as herein set forth.

William Arkoosh
 Signature of Applicant (and title, if applicable)

Received by C. SKINNER Date 4/22/2004 Time PM Preliminary check by C. SKINNER
 Fee \$ 6810.00 Receipted by C. SKINNER # 5026680 Date 4/22/2004
 Publication prepared by mfb Date 5/27/04 Published in LT, ES, LT, PR, TN
 Publication approved mfb Date 6/14/04, etc

* APPLICATION AMENDED 5/18/04 FROM 600 cfs TO 500 cfs ∴ FILING
 FEE IS ACTUALLY \$6610.00. REQUEST FOR \$200.00 FILING FEE REFUND TO APPLICANT
 MADE 5/18/04 P.S.

New Project (FERC 12063-000)

Arkoosh_24K

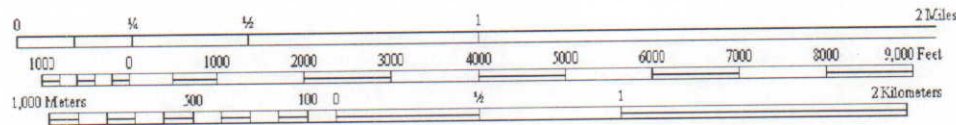
W 114° 34' 19.098"
N 42° 58' 24.024"

W 114° 29' 54.465"
N 42° 58' 18.322"

4 MI TO GOODING, ID

N 42° 57' 19.245"
W 114° 34' 21.647"

1927 North American Datum: 1,000-meter UTM grid zone 11
Generated by BigTopo (www.bigtopo.com)
Map compiled from USGS 7 1/2 Minute Quads: Tunupa, ID; Shoshone, ID



N 42° 57' 13.546"
W 114° 29' 57.091"

Arkoosh Hydro

T5S, R16E, Boise Meridian



*Little Wood River Ranch II Hydroelectric
FERC No. 12063*

LINCOLN COUNTY COMMISSIONERS

Lincoln County Courthouse

111 WEST B STREET SUITE C

SHOSHONE, IDAHO 83352

(208) 886-7641
FAX (208) 886-2458

July 2, 2004

RECEIVED
JUL 06 2004
Department of
Water Resources

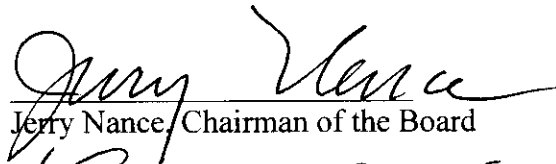
State of Idaho
Department of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301-3380

Re: Permit No. 37-21297

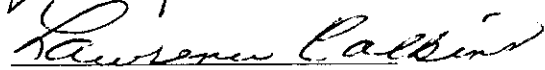
Dear Corey,

Having reviewed the letter from Department of Water Resources to Mr. Arkoosh, Lincoln County supports the Department of Water Resources going ahead with permit #37-21297.

Sincerely,



Jerry Nance, Chairman of the Board



Lawrence Calkins, Member



Rusty Parker, Member

WELLS
FARGO

Wells Fargo Bank, N.A.
South Central Idaho
Business Banking Center

102 Main Avenue South, P.O. Box 7
Twin Falls, ID 83303-0007
208 736-1313
208 736-1220 Fax

RECEIVED
JUN 28 2004
Department of Water Resources
Southern Region

June 25, 2004

Mr. Corey Skinner, Dam Safety Engineer
Department of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301-3380

RE: Application Permit No. 37-21297 (corrected letter from 6/23/04)

Dear Mr. Skinner:

William Arkoosh has requested a financial commitment for the new Hydro Project that he is working on for his property located on the Little Wood River. Wells Fargo Bank financed Mr. Arkoosh's first Hydro Project with a SBA Guarantee. The Hydro Project has been successful for both William Arkoosh and Wells Fargo Bank.

Wells Fargo Bank will review Mr. Arkoosh's loan application when completed and make every effort to approve the new request.

If you have any questions, you can contact me at 736-1237.

Sincerely,



Michael J. Meade
Vice President and
Business Banker



Wells Fargo Bank, N.A.
South Central Idaho
Business Banking Center

102 Main Avenue South, P.O. Box 7
Twin Falls, ID 83303-0007
208 736-1313
208 736-1220 Fax

RECEIVED
JUN 24 2004
Department of Water Resources
Southern Region

June 23, 2004

Mr. Corey Skinner, Dam Safety Engineer
Department of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301-3380

RE: Application Permit No. 37-21297

Dear Mr. Skinner:

William Arkoosh has requested a financial commitment for the new Hydro Project that he is working on for his property located on the Big Wood River. Wells Fargo Bank financed Mr. Arkoosh's first Hydro Project with a SBA Guarantee. The Hydro Project has been successful for both William Arkoosh and Wells Fargo Bank.

Wells Fargo Bank will review Mr. Arkoosh's loan application when completed and make every effort to approve the new request.

If you have any questions, you can contact me at 736-1237.

Sincerely,

Michael J. Meade
Vice President and
Business Banker

Little Wood River Ranch II Hydroelectric Project
Application for Permit to Appropriate Waters of the State of Idaho

Checklist of Requirements for Large Diversions
April 12, 2004

Effect on Existing Rights

Statement of design construction or operation techniques which will be used to reduce impact on existing rights: The subject appropriation is for non-consumptive water use, i.e. the water will be returned to the Little Wood River after use. There are no other diversions within the hydropower project stretch that will be affected by the new appropriation. The water system for the hydro project is designed so that, in the event that the powerplant goes offline, water will immediately bypass the powerplant and return to the river, thus avoiding interruption of water delivery to downstream users.

Sufficiency of Water Supply

The required diversion rate for peak use is 600 cfs.

The required diversion rate for average use, by month, are:

Month	Flow (cfs)
Jan	110
Feb	127
Mar	139
Apr	282
May	392
Jun	424
Jul	444
Aug	412
Sep	377
Oct	51
Nov	93
Dec	119

The average annual volume of water to be diverted is approximately 179,500 acre-ft.

The volume to be consumptively used each year is ZERO acre-feet, i.e. no water will be consumed.

Historic year-round flow data for the project reach have been obtained from USGS Gauge 13151500 located on the Little Wood River near Shoshone, ID. Recent summer flow data for the project reach of the Little Wood River have been obtained from the Big Wood Canal Company.

Good Faith, Delay or Speculation

Attached tax bills show applicant's ownership of all lands affected by the proposed diversion.

Power application affidavit form 205/206 is attached.

Financial Resources

The project applicant cannot obtain financing for the hydroelectric development until after the water right application and FERC license application are approved. At that time, financing will be obtained from a certified lending institution.

The applicant has previously financed, constructed and operated a nearly identical project located just downstream of the proposed project. The applicant is aware of the financial requirements to complete a project of this type, believes that the project is viable as proposed, and is committed to completion of this project.

Project design plans are part of the FERC license application, submitted to FERC in September 2003. A copy is attached. The project construction cost is estimated to be \$1.5M.

Local Public Interest

All potentially affected state, local and federal agencies were invited to a public scoping meeting on 12/11/02. The meeting notice, summary, and comments from agencies are attached as part of the FERC license application. Comments were received from IDEQ, IDFG and Big Wood Canal Company. No written comments were received from Lincoln County. In a telephone conversation on 7/25/03, the County indicated that the project would require a Conditional Use Permit.

This information has been provided in good faith by William Arkoosh to support his pending application to appropriate water.

William Arkoosh

Date

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
AFFIDAVIT FOR WATER RIGHTS TO BE USED
FOR POWER PURPOSES

A. Establishment of Residency: (Complete either 1, or 2).

1. Individual Applicant or Individual Members of a Partnership:

I, William Arkoosh of Gooding,
(name) (city)

county of _____, State of Idaho, being duly sworn, do

hereby certify that I am a bona fide resident of the State of Idaho.

2. Corporation:

I, _____ of _____,
(name) (city)

County of _____, State of Idaho, being duly sworn, depose

and say: That I am the designated registered agent of the _____

_____ : that as such I am in charge of the registered
(name of corporation)

office of the said corporation as required by Section 30-1-12, Idaho Code, at

_____ Idaho, wherein are kept the corporate records required
(city)

by Section 30-1-52, Idaho Code: and that _____
(name of corporation)

is a corporation qualified to do business in the State of Idaho under the laws of
the State of Idaho.

B. Ownership of Facilities: (To be completed for hydropower projects only)

The hydropower facility to be developed pursuant to the attached Application for
Permit:

- (check one)
- ☒ Will not utilize existing man-made irrigation facilities such as a dam or a canal.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal, and permission of the owner is documented in an affidavit attached hereto.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal and the owner of the facilities is the signee of this affidavit.

State of Idaho)
County of _____) ss.

Applicant

On this _____ day of _____, 19____, personally appeared
before me the signer(s) of the above instrument, who duly acknowledged to me that
he (she) (they) executed the same.

seal

Notary Public residing at

My commission expires:

→ Sent to DWR

August 1, 2003

Secretary
Federal Energy Regulatory Commission
Mail Code: DPCA HL 21.3
825 N Capitol St NE
Washington, DC 20426

Subject: LITTLE WOOD RIVER RANCH II HYDROELECTRIC, FERC No. 12063

Dear Secretary:

Enclosed herewith, on behalf of the Applicant William Arkoosh, are the original and eight copies of an Application for License for the proposed Little Wood River Ranch II Hydroelectric Project.

Copies have also been sent to recipients identified on the Service List included in this application.

Please contact me at (208) 528-6152 if you have any questions.

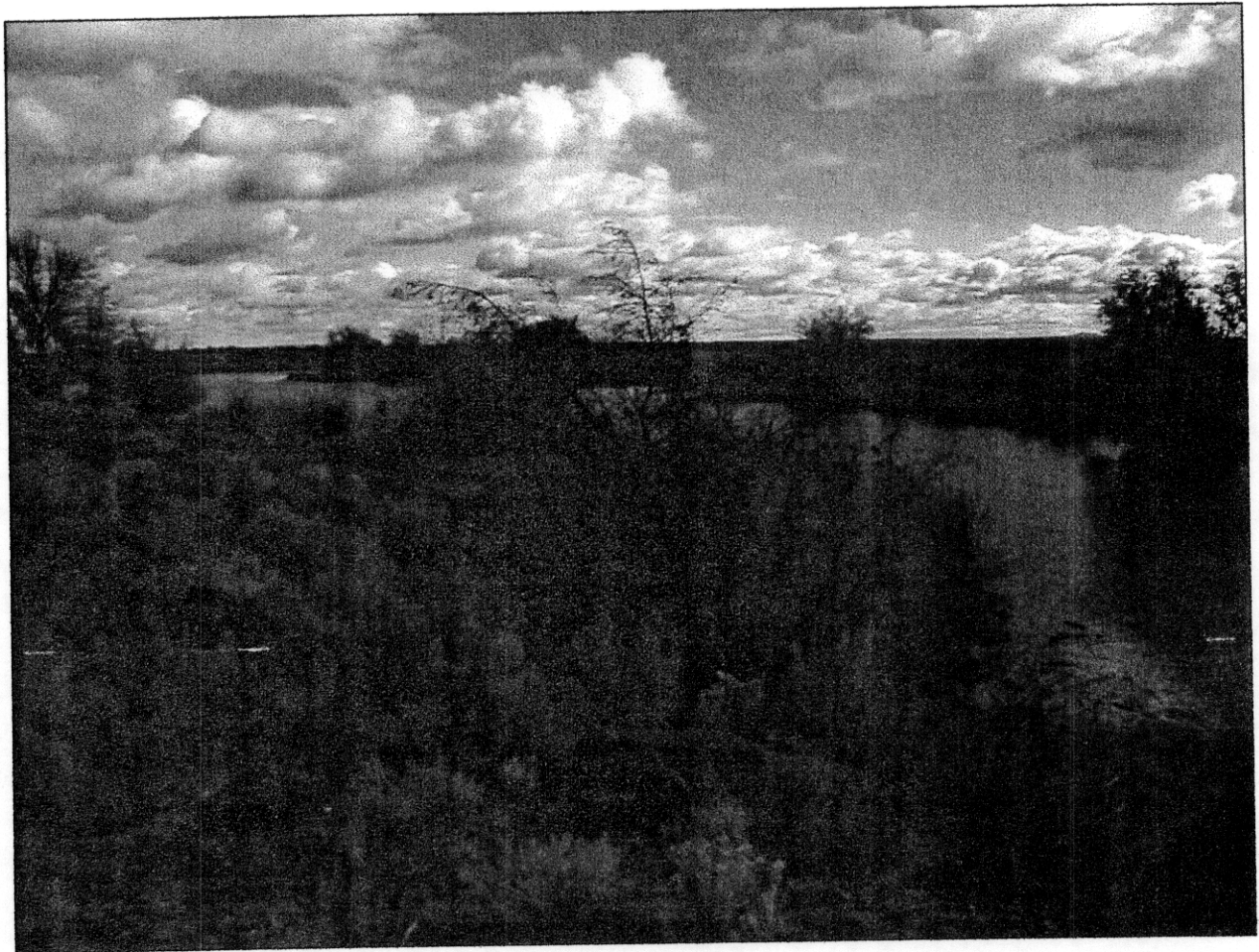
Regards,

Nicholas E. Josten
Authorized Agent

Cc: William Arkoosh, Gooding, ID

**BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

**APPLICATION FOR LICENSE FOR A
MINOR WATER PROJECT**



WILLIAM ARHOOSH, APPLICANT

AUGUST 2003

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
AFFIDAVIT FOR WATER RIGHTS TO BE USED
FOR POWER PURPOSES

A. Establishment of Residency: (Complete either 1, or 2).

1. Individual Applicant or Individual Members of a Partnership:

I, William Arkkoosh of Gooding,
(name) (city)
county of Gooding, State of Idaho, being duly sworn, do
hereby certify that I am a bona fide resident of the State of Idaho.

2. Corporation:

I, _____ of _____,
(name) (city)
County of _____, State of Idaho, being duly sworn, depose
and say: That I am the designated registered agent of the _____
_____ : that as such I am in charge of the registered
(name of corporation)
office of the said corporation as required by Section 30-1-12, Idaho Code, at
_____ Idaho, wherein are kept the corporate records required
(city)
by Section 30-1-52, Idaho Code: and that _____
(name of corporation)
is a corporation qualified to do business in the State of Idaho under the laws of
the State of Idaho.

B. Ownership of Facilities: (To be completed for hydropower projects only)

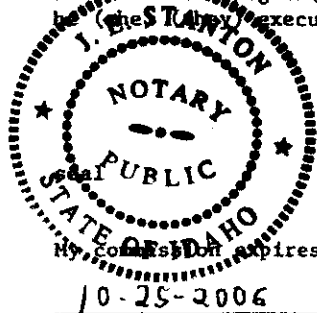
The hydropower facility to be developed pursuant to the attached Application for
Permit:

- (check one)
- ☒ Will not utilize existing man-made irrigation facilities such as a dam or a canal.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal, and permission of the owner is documented in an affidavit attached hereto.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal and the owner of the facilities is the signee of this affidavit.

William Arkkoosh
Applicant

State of Idaho
County of Twin Falls) ss.

On this 23rd day of April, 192004, personally appeared
before me the signer(s) of the above instrument, who duly acknowledged to me that
he/she/they executed the same.



J. Stanton
Notary Public residing at
Twin Falls, ID

FEDERAL ENERGY REGULATORY COMMISSION

**APPLICATION FOR LICENSE FOR A
MINOR WATER PROJECT**

FERC 12063-0000

**LITTLE WOOD RIVER RANCH II
LINCOLN COUNTY, ID
Aug 1, 2003**

William Arkoosh, APPLICANT

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INITIAL STATEMENT

**BEFORE THE FEDERAL ENERGY
REGULATORY COMMISSION**

**APPLICATION FOR LICENSE FOR
MINOR WATER PROJECT
PROJECT NO. 12063**

1. William Arkoosh applies the Federal Energy Regulatory Commission for a license for the Little Wood River Ranch II Hydroelectric Project as described in the attached exhibits.

2. The location of the project is:

State: Idaho
County: Lincoln
Nearby town: Shoshone, ID
Stream: Little Wood River

3. The exact name, address and telephone number of the Applicant is:

William Arkoosh
2005 Highway 26
Gooding, ID 83330
(208) 934-5387

4. The exact name, address and telephone number of each person authorized to act as agents for the Applicant in this Applications are:

Nick Josten
GeoSense
2742 Saint Charles Ave
Idaho Falls, ID 83404
(208) 528-6152

Ted Sorenson
Sorenson Engineering
5203 South 11th East
Idaho Falls, ID 83404
(208) 522-8069

5. The Applicant is a citizen of the United States and is claiming preference under section 7(a) of the Federal Power Act.

6 (i) The statutory regulatory requirements of the state in which the project would be located that affect the project as proposed with respect to the bed and banks and the appropriation, diversion and use of water for power purposes, and with respect to the right to engage in the business of developing, transmitting and distributing power, and in any other business necessary to accomplish the purposes of the license under the Federal Power Act are:

a. Title 42, Chapters 1 and 2, Idaho Code, addresses the appropriation of water for beneficial use within the State of Idaho. The right to use such water is gained by William Arkoosh by filing an application to the Idaho Department of Water Resources (IDWR) for a water appropriation permit. Upon issuance of permit and subsequent demonstrated beneficial use of water, a vested water right (license) for power generation is issued.

- b. Title 42, Chapter 38, Idaho Code, regulates the alteration of the bed and banks of Idaho streams.
 - c. Title 36, Chapter 9, Idaho Code deals with the protection of fish in Idaho waters.
 - d. Title 50, Chapter 11, Idaho Code, grants to Idaho Counties the right to establish Planning and Zoning Commissions and grants regulatory authority to counties to govern building standards. A conditional use permit must be obtained from Lincoln County prior to construction.
- (ii) Steps which the Applicant has taken, or plans to take, to comply with the statutory or regulatory requirements cited above:
- a. The Applicant has made application to the IDWR to appropriate streamflow for hydroelectric power.
 - b. The applicant has contacted Idaho Department of Lands concerning requirements for a stream alteration permit. Department of Lands stated that the project reach of the Little Wood River is designated as a non-navigable water. No state permit is necessary.
 - c. The Applicant has consulted with the Idaho Department of Fish and Game (IDFG) regarding protection of fish in the Little Wood River and has incorporated IDFG recommended terms and conditions into the project design.
 - d. The applicant will complete a Conditional Use Permit application with Lincoln County prior to construction.

7. BRIEF PROJECT DESCRIPTION

The proposed Little Wood River Ranch II hydroelectric project would be located on the Little Wood River approximately six miles west of Shoshone, ID and two miles upstream from the Little Wood River Ranch I hydroelectric project, which was constructed in 1984. The new project would be operated in a run-of-the-river mode, making use of the existing flows and the natural fall of the river. The project would not alter the amount or timing of water delivery downstream, but merely use the water as a clean, renewable energy source.

The proposed project would utilize the existing flow regime in the Little Wood River by diverting up to 500 cfs into a newly constructed canal. Water would flow through approximately 2800 ft of open canal to a concrete penstock intake structure where it would enter two parallel, five-foot diameter penstocks. The penstocks would feed water into a powerhouse containing two Francis turbines, with synchronous generators and related equipment. Water would exit the penstock into a 3500 ft long tailrace canal, which would return water to the Little Wood River approximately 1.4 miles downstream from the point of diversion. Two miles of three-phase 12.5 kV powerline would be constructed to connect the new powerhouse with the electrical grid at the Little Wood River Ranch I powerhouse.

The project includes construction of 1) a rock rubble diversion on the Little Wood River, 2) a 2800 ft long feeder canal, 3) an intake structure and penstocks, 4) a powerhouse, 5) a 3500 ft long tailrace to return water to the Little Wood River and 6) a two-mile three-phase 12.5 kV transmission line. The project would have a generating capacity of 1500 kW at a maximum flow of 500 cfs.

Location: The project is located in Sections 21, 22, 26, 27, and 28, T5S, R16E, Boise Meridian, Lincoln County, Idaho and is approximately 6 miles west of the city of Shoshone, ID.

Topography: The area surrounding the project is characterized by uneven terrain formed by lava flows covered with sagebrush and desert grasses, with small areas of irrigated pasture and farmland along the Little Wood River.

Access: The road to the site is a narrow, slightly improved dirt road used for access to farm and pasture lands.

Water Source: The Little Wood River carries spring run-off from a large upstream drainage basin. This stretch of the Little Wood River serves as a summer conduit for irrigation water distribution by the Big Wood Canal Company. About 400 cfs is diverted from the Snake River near Burley, ID and is carried to the Little Wood River by the Milner – Gooding Canal. The Snake River water is added to the Little Wood River approximately 6 miles upstream from the proposed project site and is re-diverted for irrigation use at the South Gooding Main canal approximately 4 miles downstream from the proposed project site. The large volume of summer irrigation water transported through the project stretch of the Little Wood River produces a relatively flat summer flow duration pattern compared to most natural run-of-the-river sites. Flow records are included in this application (see Figure E-2).

Head: The head drop at the site occurs along a 3000 ft reach of canal and penstock beginning at the proposed rock rubble diversion in the NE ¼ NE ¼ of Section 26, T5S, R16E, Boise Meridian. The water elevation behind the diversion is 3799.5 ft and the elevation of the tailrace below the proposed powerhouse is 3754.8 ft, resulting in total available static head of 44.7 ft.

Property: All project structures occur entirely on private land owned by the Applicant.

Power Sales: Applicant will obtain a power sales agreement with Idaho Power, Inc. at the established rates for approximately 6.8 million kWh to be produced annually from the proposed hydroelectric project.

Proposed installed capacity: 1.5 MW.

Check appropriate box:

☐	Existing Dam
☒	Unconstructed Dam
☐	Existing Dam, Major Modified Project

8. Lands of the United States (see Exhibit G)

Indian Reservations: None

Bureau of Reclamation/USDOI: None

Other federal lands: None

Total U.S. Lands: None

Check appropriate box:

 X Surveyed Lands
 Un-surveyed Lands

The project area includes parts of Township 5S, Range 16E, Sections 21, 22, 25, 27, 28 (Boise Meridian), all of which are privately owned by the Applicant.

9. Construction of the project is planned to start within 12 months, and is planned to be complete within 24 months, of the date of issuance of the license.

4.32(a)(2)(ii)

LOCAL POLITICAL SUBDIVISIONS AFFECTED BY THE PROJECT

None. The project facilities and impacts occur entirely on private lands owned by the Applicant.

4.32(a)(2)(iii)

IRRIGATION OR DRAINAGE DISTRICTS, OR SIMILAR SPECIAL-PURPOSE POLITICAL SUBDIVISIONS AFFECTED BY THE PROJECT

Attn: Lynn Harmon
American Falls Reservoir District #2
P.O. Box C
Shoshone, ID 83352

4.32(a)(2)

OTHER LOCAL POLITICAL SUBDIVISIONS THAT MAY BE INTERESTED OR AFFECTED BY THE PROJECT

None.

4.32(a)(2)(v)

INDIAN TRIBES AFFECTED BY THE PROJECT

None.

4.32(a)(3)(i)

STATEMENT OF NOTIFICATION

William Arkoosh, or his agent Nicholas E. Josten, has made, either at the time of or before the filing of this Application, a good faith effort to give notification by certified mail of the filing of this Application for license to the following parties/agencies:

Secretary
Federal Energy Regulatory Commission
888 First Street NE
Mail Code: DLC HL-11.1
Washington, DC 20426

Regional Director
Federal Energy Regulatory Commission
101 SW Main Street #905
Portland, OR 97204

Lincoln Public Library
Shoshone, ID 83352

Attn: Ritchie Graves
National Marine Fisheries Service
525 NE Oregon St
Portland, OR 97232-5417

Attn: Neil Farmer
National Park Service
Hagerman Office
P.O. Box 570
Hagerman, ID

Attn: Corey Skinner
Idaho Department of Water Resources
1341 Filmore St, Suite 200
Twin Falls, ID 83301

Attn: John Olson
U.S. Environmental Protection Agency
Region 10
1485 N Orchard St
Boise, ID 83706

Attn: Robert Ruesink
U.S. Fish and Wildlife Service
1387 S Vinnell, Suite 368
Boise, ID 83709

Attn: Mike McDonald
Idaho Department of Fish and Game
P.O. Box 428
Jerome, ID 83338

Attn: Suzi Neitzel
Idaho State Historic Preservation Office
210 Main St
Boise, ID 83702

Attn: Sonny Buhidar
Idaho Department of Environmental Quality
601 Poleline Road, Suite 2
Twin Falls, ID 83301

Attn: Carol Boudreau
Lincoln County Planning and Zoning
111 West B Street
Shoshone, ID 83352

Attn: Diane Yupe
The Shoshone-Bannock Tribe
P.O. Box 306
Fort Hall, ID 83202

Montie Day
38 Steuben Bay
Alameda, CA 94502

4.32(a)(3)(ii)

SAMPLE LETTER OF NOTIFICATION

(Date)

(Addressee)

Re: Notice of FERC Filing

Dear (Addressee):

CERTIFIED MAIL

Pursuant to the Code of Federal Regulation (CFR), Title 18, Section 4.32(a)(3)(i), and on behalf of William Arkoosh (Applicant), this letter is to advise you that an Application for License for the proposed Little Wood River Ranch II Hydroelectric Project is being filed with the Federal Energy Regulatory Commission.

The exact name, address and telephone number of the Applicant is:

William Arkoosh
2005 Highway 26
Gooding, ID 83330
(208) 934-5387

Enclosed is a copy of Exhibit G (project map) which is part of the Application for License being filed.

Regards,

(Signatory)

4.32(b)(3)(i)

AVAILABILITY OF INFORMATION

A copy of this application, and ensuing documentation, shall be kept available at the following location:

Lincoln County Public Library
Shoshone, ID 83352

4.32(b)(3)(ii)

INFORMATION AVAILABILITY RE: NATIONAL HISTORIC REGISTER ELIGIBILITY

Disclosures and/or Native American cultural sites, if any, have and/or shall be deleted in copies of the application and ensuing documentation in this application proceeding, which applicant makes available to the public.

4.32(b)(4)(i)-(iv),(5)

AVAILABILITY OF INFORMATION TO THE PUBLIC

In addition to the location previously mentioned, copies of the application may also be available at the addresses of the governmental agencies identified in the Service List herein; and a copy of the application, and ensuing information may be obtained through the Applicant after reimbursement of reasonable cost of reproduction.

4.32(b)(6)-(9)

PUBLICATION OF NOTICE OF FILING

Within 14 days of filing of this application for license, Applicant will cause a notice to be published in the following area newspaper:

Lincoln County Journal

which notice shall inform the public of this application filing as follows:

NOTICE

Pursuant to 18CFR 4.32(b)(6), take notice that an application for license for the proposed Little Wood River Ranch II Hydroelectric Project, a minor water power project to be located on the Little Wood River six miles west of Shoshone, ID entirely on lands owned by the Applicant, was filed with the Federal Energy Regulatory Commission (FERC) on August 1, 2003 and issued Project No. 12063-0000. The application was filed by William Arkoosh whose address is William Arkoosh, 2005 Highway 26, Gooding, ID 83330. The project will include the construction of:

- 1) a diversion/spillway structure in the Little Wood River
- 2) a new feeder canal to carry water to the hydroelectric powerplant
- 3) a penstock intake structure
- 4) two penstocks to the powerhouse
- 5) a powerhouse enclosing two turbines, a generator, and appurtenant equipment
- 6) a tailrace canal to return water to the Little Wood River
- 7) a 2 mile, 3-phase, 12.5 kV transmission line
- 8) Installed capacity of 1.5 megawatts and the annual generation will be approximately 6.8 gigawatt-hours. It is intended to sell the energy generated by the project to Idaho Power Company.

A copy of the application is available for public inspection at the Lincoln County Public Library, Shoshone, ID. A copy of the application can also be obtained from the applicant after reimbursement for reasonable cost for reproduction. Any additional scientific studies by any party must be requested within 60 days after the application is filed. All requests must be filed with the FERC in accordance with its regulations, and a copy must be sent to the Applicant. The FERC will publish further notice soliciting public participation if the application is found acceptable for filing.

4.32(a)(4)(i)(ii)

VERIFICATION

This Application is executed in the STATE OF IDAHO

By: William Arkoosh
2005 Highway 26
Gooding, ID 83330

By: Nicholas E. Josten, his agent
2742 Saint Charles Ave
Idaho Falls, ID 83404

being duly sworn, deposes and says that the contents of this application are true to the best of his knowledge or belief. The undersigned applicant has signed this application this 9th day of August, 2003.

By: N E Josten
Nicholas E. Josten, Agent

SUBSCRIBED to and sworn to before me, a Notary Public of the State of Idaho, this 9th day of August, 2003.

By: Gayle A. Sorenson
Notary Public

Commission expires 4/1/2006

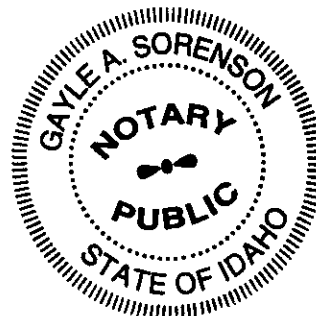


EXHIBIT A – Project Description

1. Project Data

(i)	Generating units	
	Number of units	One, connected to two turbines
	Auxiliary units	none
	Capacity of unit	1500 kW
	Provision for future units	none
(ii)	Type of hydraulic turbines	Francis, single regulated
(iii)	Mode of operation	Automatic, run-of-the-river
(iv)	Estimated annual energy generation	6.8 million kWh
(v)	Estimated average head	
	Static head:	44.7
	Design head:	42.8
(vi)	Reservoir surface area and storage capacity	8 acres, 40 af
(vii)	Turbine hydraulic capacity	
	Unit 1	375 cfs
	Unit 2	125 cfs
	Total	500 cfs
(viii)	Sizes, capacities, and construction materials	
	Diversion/overflow spillway	
	Construction	Rock rubble
	Length	220 ft
	Height	10 ft
	Capacity	500 cfs
	Elevation (top of weir)	3799.5 ft asl
	Canal	
	Construction	excavated from rock, w/ some earth embankment
	Capacity	500 cfs
	Length	2800 ft
	Bottom width	25 ft
	Side slope	3:1
	Depth of water	variable

Penstock intake	
Construction	Concrete
Height	12 ft
Capacity	500 cfs
Elevation (top of dike)	3801.5 ft asl
Penstocks	
Number	two
Construction	Steel pipe or HDPE
Diameter	60 inches
Length	250 ft
Capacity	500 cfs (combined)
Powerhouse	
Construction	Concrete foundation, steel building
Length	60 ft
Width	20 ft
Height	25 ft
Floor elevation	3750 ft asl
Tailrace channel	
Construction	excavated from rock
Capacity	500 cfs
Length	3500 ft
Bottom width	25 ft
Side slope	3:1 to vertical when in solid rock
Transmission line	
Length	10,500 ft
Transformer	Step-up to 12.5 kV
Intertie	3 phase transmission line
(ix) Estimated project cost	\$1,600,000

2. Purpose of Project

The purpose of the project is to generate power for sale to Idaho Power or other public utility.

EXHIBIT E – Environmental Report

The Little Wood Ranch II Hydropower Project is located six miles west of the town of Shoshone, Idaho, on the Little Wood River. The Project facilities will be located entirely on private land owned and controlled by the Applicant, William Arkoosh.

The Little Wood River provides the drainage for the southern portion of the Pioneer Range of mountains in South Central Idaho. Snow pack in those mountains governs the spring run-off from mid-March until approximately June 1st of each year. Additional sources of flow are Silver Creek, which is supplied by continuous spring flow and by the Big Wood Canal system, which uses the river for a summer irrigation water conduit (Figure E-1). Enhanced summer irrigation flows are utilized for power generation at three existing hydroelectric facilities on the Little Wood River nearby to the proposed Little Wood River Ranch II project.

Vegetative cover

The project area receives approximately ten inches of precipitation annually that supports semi-arid vegetation. Two clearly defined natural vegetation types occupy the area: 1) riparian vegetation in a narrow zone along the Little Wood River, and 2) a sagebrush-grass association throughout the uncultivated upland areas on both sides of the river. Several small agricultural fields are also located in bottom lands along the Little Wood River. These fields are used to raise crops such as corn or wheat, or hay and to pasture cattle.

Riparian vegetation along the Little Wood River consists of willows, cattails, a variety of grasses and forbs, and some non-native species such as Russian Olive. The riparian corridor varies in width from 0 - 45 ft along each bank of the Little Wood River.

The rangelands consist of an overstory of big sagebrush, rabbit brush, and bitter brush, with an understory of cheatgrass, Sandberg's bluegrass, bluebunch wheatgrass, Thurber's needlegrass, bottlebrush squirreltail, and various other annual and perennial forbs. The density of the dry-land vegetation is severely restricted by basalt outcrops and livestock grazing.

There are also scab lands which are primarily open lava and fine montmorillonitic soils with 0 - 20 percent slope range. Parent material is loess and basalt with a surface texture of stony silt/loam and silty clay subsurface. Erosion susceptibility in this area is considered low.

Threatened or Endangered Fish

No state or federally threatened, endangered or candidate plant species are known or expected to occur in the project vicinity. The Picabo milkvetch (*Astragalus microcystis*) is listed by the State of Idaho as a Priority 3 Rare Species, which means that the species is rare or uncommon but not imperiled. The Snake River milkvetch (*Astragalus purshii* var *ophiogenes*) is listed by the State of Idaho as a sensitive species, which means the species might be jeopardized without active management or removal of threats. Both these plants have been found within several miles of the project site.

Critical Habitat

The habitat types found in the project vicinity are common throughout Lincoln County and southern Idaho. No known critical plant habitat occurs within the project vicinity.

Fisheries

The fishery resource in the project reach of the Little Wood River is extremely limited with almost no sport fishing available. The project stretch of the Little Wood River is primarily a warmwater fishery. Currently, the lower reaches of the Little Wood River provide marginal spawning and summer rearing habitat for native salmonids. Winter habitat conditions may be suitable and with riparian restoration and enhancement, habitat conditions could improve and support trout populations in the future. The principal fish species found in the project area are listed in Table E-1.

The Idaho Department of Fish and Game (IDFG) manages the project reach of the Little Wood River as a warmwater fishery with small mouth bass (*Micropterus dolomieu*) as the primary game fish. The IDFG's current management direction for the project reach of the Little Wood River is to maintain the small mouth bass fishery with a catch rate of 0.5 fish/hr and to maintain existing and improve degraded stream habitats.

Table E-1. PRINCIPAL FISH SPECIES OF THE LITTLE WOOD RIVER

Species Name Common/Scientific	Period of Spawning	Spawning Conditions and Physical Requirements
Carp <i>Cyprinus carpio</i>	Spring and early summer	Shallow, weedy areas.
Redside Shiner <i>Richardsonius balteatus</i>	May-August	Shallow water, 50 degrees or more. Daylight or dark.
Smallmouth Bass <i>Micropterus dolomieu</i>	Late spring over 6-12 Day period.	Water temp. between 60-65 degrees. Sandy gravel or rocky bottoms of stream, usually adjacent to a rock or fallen log.
Bridgelip Sucker <i>Catostomus columbianus</i>	Late May	Gravel to rocky bottom. May spawn in colder water. Little research has seriously been done on this species.
Brown Bullhead <i>Ictalurus nebulosus</i>	Spring and early summer	Temperatures exceed 65 degrees. Water depth from 1 to 4 feet. Mud, sand, or roots of aquatic vegetation.

Threatened or Endangered Fish

No state or federally threatened, endangered or candidate fish species are known or expected to occur in the project vicinity.

Critical Habitat

No known critical fish habitat occurs within the project vicinity.

Wildlife

Wildlife inhabiting the project area reflects interspersed riparian areas, dry-land vegetation, and cultivated areas. Wildlife resources include large and small mammals, reptiles, waterfowl, raptors, game birds and a variety of songbirds.

The mule deer is fairly common in the project area and frequents the riparian, rangeland and cultivated habitats. Pronghorn antelope also occupy the rangelands of Lincoln County and could

visit the project area. Mule deer and antelope would most likely visit the project area during winter to escape the deeper snow cover of higher elevations and more open rangelands. Table E-2 is a partial list of animal species expected to be found in the project vicinity.

Table E-2. PARTIAL LIST OF WILDLIFE SPECIES OCCURRING IN THE PROJECT AREA

Species	Occurrence
Bobcat	L
Badger	M
Mink	L
Pigmy Rabbit	H
White-footed mice	M
Bats	L
Hungarian Partridge	L
Blue-winged Teal	L
Spotted Sandpiper	L
Ring-billed Gull	L
Great Blue Heron	L
Prairie Falcon	L
Sharp-shinned Hawk	M
Barn Owl	H
Belted Kingfisher	L
Red-shafted Flicker	L
Traill's Flycatcher	L
Barn Swallow	H
Common Raven	M
Canon Wren	M
Robin	H
Bohemian Waxwing	L
Raccoon	L
Spotted Skunk	H
Muskrat	M
Porcupine	L
Marmot	H
Pocket Gopher	L
Harvest Mice	M
Meadow Mice	L
Ringneck Pheasant	H
Mountain Quail	L
Mourning Dove	H
Cinnamon Teal	L
Killdeer	H
Turkey Vulture	L
Marsh Hawk	H
Sparrow Hawk	M
Cooper's Hawk	L
Rough-legged Hawk	M
Long-eared Owl	M
Water Quzele	L

Species	Occurrence
Lewis' Woodpecker	L
Cliff Swallow	H
Common Crow	M
House Wren	M
Rock Wren	L
Cedar Waxwing	L
Starling	H
Coyote	M
Weasel	L
Striped Skunk	H
Cottontail Rabbit	H
Black-tailed Jack Rabbit	H
Kangaroo Rat	L
Valley Quail	L
Mallard	M
Green-winged Teal	L
California Gull	M
Golden Eagle	M
Great Horned Owl	M
Common Nighthawk	H
Broad-tailed Hummingbird	L
Black-billed Magpie	H
Black-capped Chickadee	M
Common Blackbird	H
Western Meadowlark	H
Bullock's Oriole	M
American Goldfinch	M
Vesper Sparrow	L
Bremer's Sparrow	L
Song Sparrow	L
Swamp Cricket Grog	L
Western Toad	M
Tiger Salamander	L
Desert Striped Whipsnake	L
Common Garter Snake	L
Western Fence Lizard	H
Western Skink	H
Short Horned Lizard	L
House Sparrow	H
Yellow-headed Blackbird	H
Brewer's Blackbird	H
Evening Grosbeak	L

Species	Occurrence
Green-tailed Towhee	L
Lark Sparrow	M
White-crowned Sparrow	L
Oregon Junco	L
Bull Frog	M
Western Spadefoot	M
Rubber Boa	M
Pine Snake	H
Western Rattlesnake	H
Sagebrush Lizard	M
Bobolink	L
Redwinged Blackbird	H
Brown-headed Cowbird	M
House Finch	M
Savannah Sparrow	M
Chipping Sparrow	M

Species	Occurrence
Fox sparrow	L
Pacific Tree Frog	L
Leopard Frog	M
Woodhouse's Toad	M
Racer	M
Western Garter Snake	H
Leopard Lizard	M
Side-blotched Lizard	H
Desert Horned Lizard	L

Source: Idaho department of Fish & Game Survey Records

H - High
M - Medium
L - Low

Threatened or Endangered Animals

No state or federally threatened, endangered or candidate animal species are known or expected to occur in the project vicinity. The pygmy rabbit (*Brachylagus idahoensis*) is listed by the State of Idaho as a Species of Special Concern. The pygmy rabbit is found in dense sagebrush habitat and may occur in the sagebrush rangeland surrounding the project stretch of the Little Wood River, although no occurrences have been reported to the Idaho Conservation Data Center..

Critical Habitat

The habitat types found in the project vicinity are common throughout Lincoln County and southern Idaho. No known critical animal habitat occurs within the project vicinity.

Water quality and quantity

The water flow regime in the Little Wood River through the project reach has been significantly altered by irrigation practices. As shown in figure E-1, natural drainage from the Little Wood River basin is enhanced by flows contributed from the Milner-Gooding canal. This canal diverts water from Milner Lake on the Snake River near Burley. During irrigation season a portion of this water is siphoned into the Little Wood River above Shoshone. The Little Wood River serves as a 15 mile conduit to move this water from the Milner-Gooding Canal into the South Gooding Main Canal. Enhanced flows through this section of the Little Wood River are utilized for power generation in three existing hydroelectric plants. Flow data in Figure E-2 show average flows ranging from 250 – 400 cfs during the period from April 15 to October 1.

The water quality in the Little Wood River near the project site varies as a direct result of the irrigation use regime. The inter-relationship of canals and natural drainage in the general project area is complex. The net result is that Little Wood River water quality is currently degraded from the standpoint of high sediment load and increased water temperature.

□ Ketchum

114.5
43.5+

114
+43.5

Hydroelectric Projects

1. Shoshone
2. Geo-Bon
3. Little Wood River Ranch II (proposed)
4. Little Wood River Ranch I
5. Koyle Ranch
6. Ravenscroft Ranch

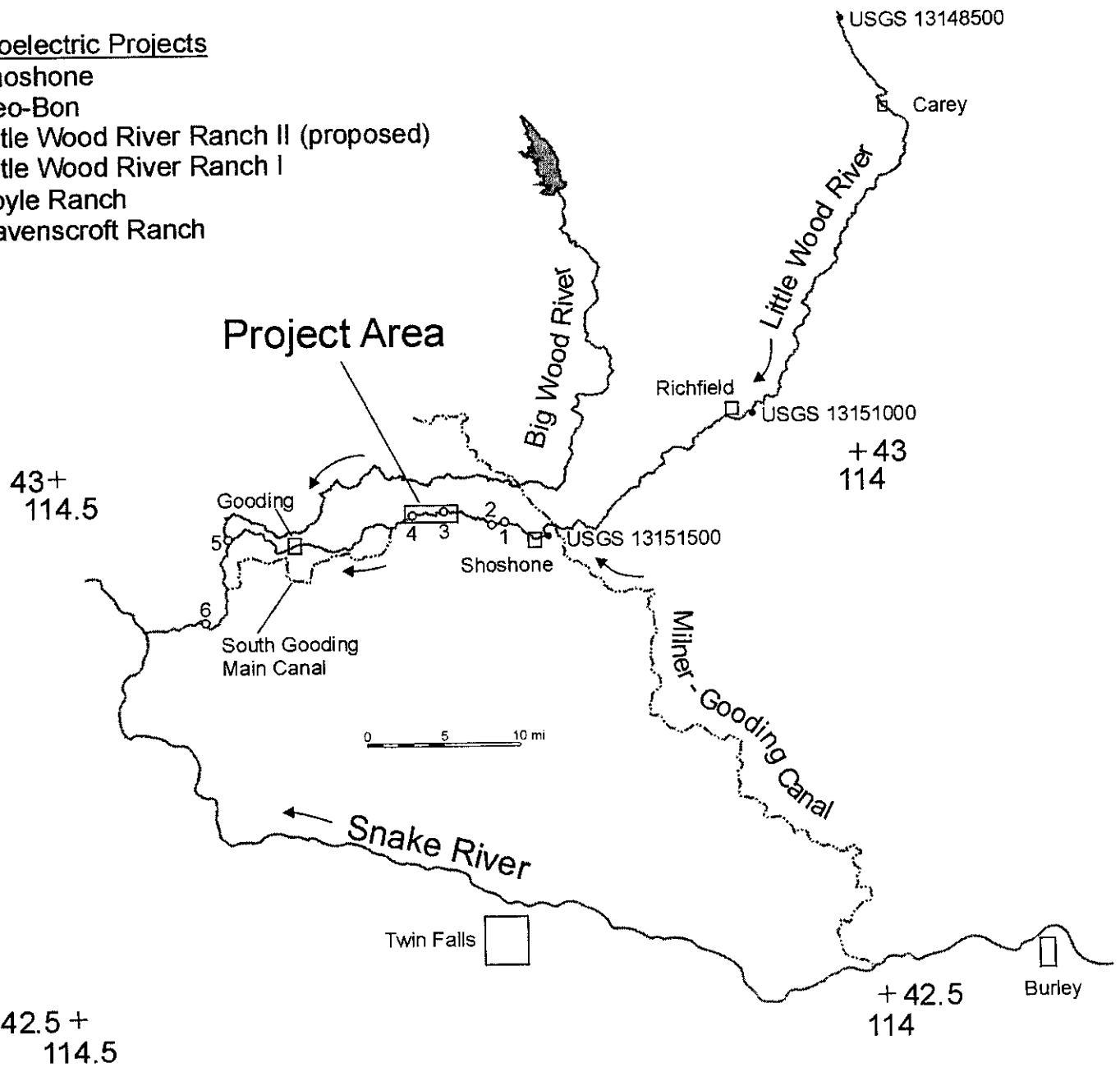


FIGURE E-1
REGIONAL FLOW DIAGRAM

Little Wood River Flows

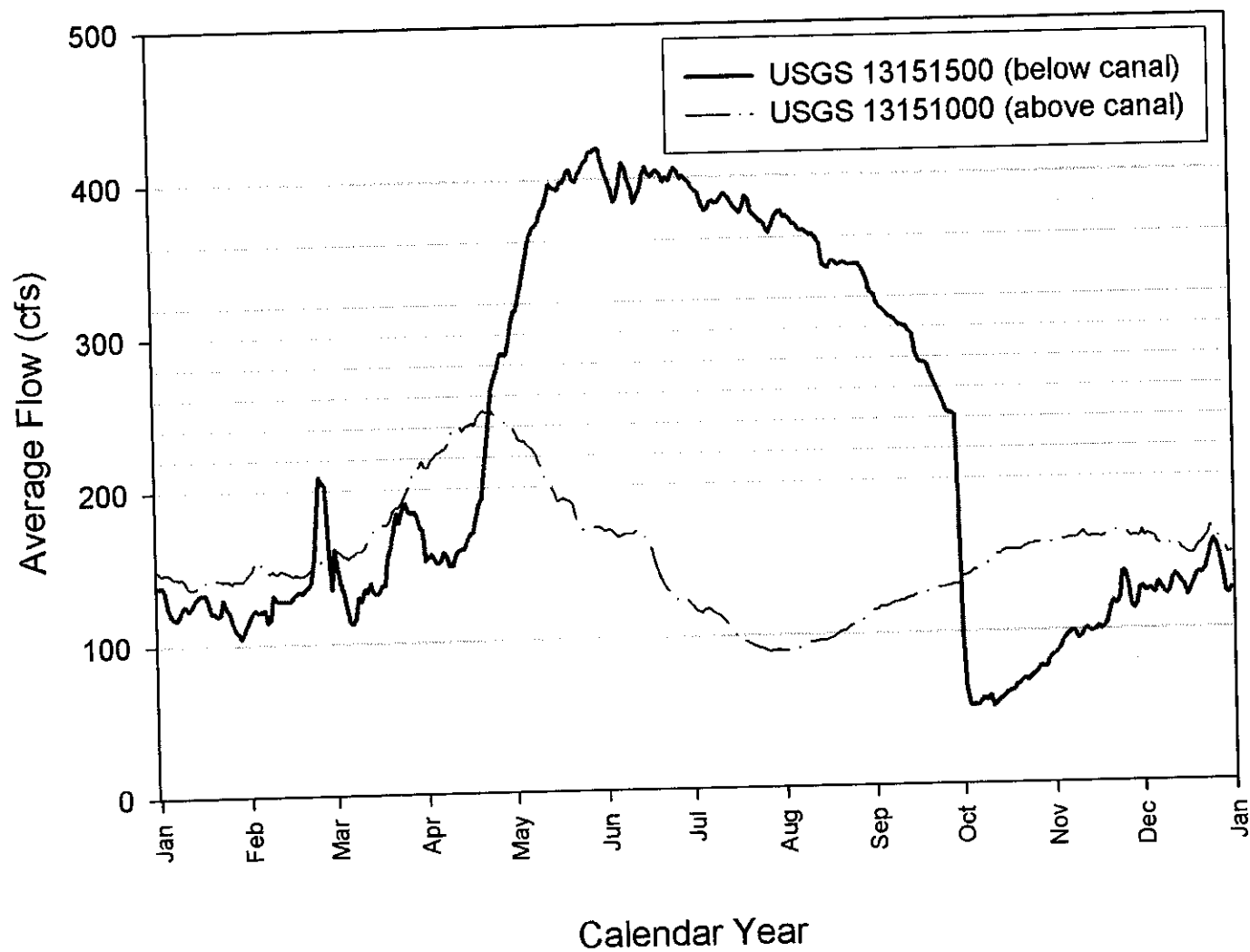


FIGURE E-2
USGS FLOW DATA FOR THE LITTLE WOOD RIVER
AT TWO UPSTREAM LOCATIONS

Land & water uses

Agriculture, with annual consumptive use requirements of nearly 3 million acre-feet, represents a single greatest use of water in the basin. Irrigation represents approximately 97 percent of the water consumptively used. The proposed project will cause no change in land use or in the quality or quantity of water available for irrigation. The project use of the water is non-consumptive. The proposed project achieves multiple usage of existing water flows to produce energy with maximum electrical generation occurring during the June through August period, which is the peak demand period on the Idaho Power system.

Recreational uses

The recreational use of the project area is extremely limited since it is located entirely on private land with restricted access. Poor summer water quality discourages swimming and other water contact sports. Some hunting for upland birds and ducks occurs along the project reach of the Little Wood River with landowner permission. Nearby waters such as Magic Reservoir, the upper Big Wood River, Silver Creek and the Snake River provide angling opportunities not available in the project area.

Historical and archaeological resources

There are no known historical and/or archaeological resources in the project area. The Idaho State Historical Society and the Shoshone-Bannock Tribes have been notified of the project and their response letters are attached. Project impacts to archeological resources, if any, would occur within the narrow canal and tailrace corridors. Since the exact location of these facilities will not be determined until final engineering studies are complete, it is not feasible to conduct archeological reconnaissance at this time. The Shoshone-Bannock Tribes and the Idaho State Historical Society will be notified if archeological resources are encountered during construction.

Sites Eligible For National Register Of Historic Places

No known sites eligible for national register of historic places occur within the project area.

Scenic and aesthetic resources

There will be very minimal changes to the scenic resources in the construction and operation of this plant, which is wholly contained on property owned by Mr. Arkoosh. Subject to individual interpretation, the project area may be viewed by some as an aesthetically pleasing expanse of sagebrush desert, while others may view the rolling lava scablands as monotonous. It is a fact, however, that there are vast expanses of similar land and vegetation in southern Idaho. In this regard, there is nothing unique or unusual about the project area. Also, since the project is remotely located on private land with limited access, the project facilities will not be visible from any major public thoroughfare.

Expected Environmental Impacts

Introduction

The impacts anticipated with implementation of the proposed project are described in the following text. Direct effects associated with the construction of the proposed facilities are considered to be mainly of short-term duration with the implementation of effective mitigation

Long-term Impacts

Hydrology

Increased diversion from the Little Wood will decrease the surface flows in the river between the diversion and the tailrace canal on a year-round basis. Minimum flow requirements will be provided in order to minimize adverse impacts to the Little Wood River.

Water Quality

The hydropower project is expected to reduce the amount of sediment in the Little Wood River as the result of sediment settling that will occur in the diversion impoundment. Sediment settling will also occur in the feeder and tailrace canals, which are designed for low flow velocity. The sediment that accumulates in the impoundment and canals will be removed by periodic cleaning. The net result is that sediment load in the Little Wood River will be reduced below the project.

Lower sediment load is expected to reduce solar heating, which should cause a reduction in water temperature. The project plan also includes the planting of native riparian vegetation along the natural riverbed, which will serve to shade the water and further reduce solar heating. In addition, the water's potential energy will be used to generate electricity rather than be lost to heat due to turbulence in the existing river channel. The net effect is that the project is expected to slightly reduce the water temperature of the Little Wood River compared with existing conditions.

Fish, Wildlife and Plants

The presence of a new 8 acre impoundment behind the new diversion structure is expected to provide good habitat for small-mouth bass, which is the primary game fish in the Little Wood River in the project stretch. The new diversion impoundment is also expected to produce additional open water and riparian habitat ideally suited for waterfowl as well as other birds and animals that use the project area. As part of the project mitigation measures, exotic vegetation such as Russian olives will be removed from the Little Wood River riparian corridor and replaced with native vegetation, consistent with the Idaho Fish and Game long-term management objectives for the river. In addition, fencing will be installed to limit livestock access to the riparian zone, which will serve to enhance the health of the riparian zone and increase its value for native animals.

Visual Resources

The proposed project will not change the open space character of the landscape, but it is expected that construction of the diversion, feeder and tailrace canals, and powerhouse will slightly modify the appearance of the local area. However, the project site is located on private land and is not visible from any major roadway.

Land Use

Hydroelectric power development is a well developed land use on the Little Wood River between Gooding, ID and Shoshone, ID. Construction of the project will require a Conditional Use Permit from the Lincoln County Planning and Zoning Department of Public. Hydroelectric power development will require the construction of a new diversion, canal, powerhouse and transmission line, but these structures are not expected to be incompatible or conflicting with existing land uses.

Cultural Resources

No long-term impacts to cultural resources are expected.

Mitigation Measures

Measures have been proposed by the project applicant and cooperating agencies to protect environmental resources and values and reduce or avoid any potentially adverse effects resulting from the project.

Fisheries Protection

The project will establish fish flow bypass as shown in Table E-3. table:

Table E-3. Little Wood River Ranch II minimum bypass flows.

Month	Minimum Flow (cfs)
January	13
February	13
March	13
April	13/42*
May	13/55*
June	13/48*
July	13/35*
August	13/36*
September	13/36*
October	13
November	13
December	13

*lower value applies during drought conditions

Erosion and Sediment Control

The following measures will be implemented to control potential acceleration of soil erosion due to the proposed project.

Bared soil areas will be reseeded with suitable plant and grass species. This measure will be incorporated into the project construction plans.

Unused soil material obtained from construction activities will be disposed in designated and suitable landfill location away from open or flowing water.

Vegetation Protection/Enhancement

Existing vegetation will be protected where possible. Russian olives and other exotic trees will be removed from the riparian corridor and native vegetation will be re-planted. Fencing will be constructed to limit livestock access into the riparian zone. Fencing and revegetation will be performed in consultation with Idaho Fish and Game.

Wildlife Protection

A raptor-proof transmission line design pursuant to *Suggested Practices for Raptor Protection on Powerlines* (Raptor Research Institute, 1975) will be used.

Energy Production

The proposed project is designed to produce an average annual electric load of 8 - 9 million kWh.

This amount of energy is equivalent to approximately 13,600 – 15,500 barrels of oil.

Hydroelectric power development is a renewable energy source that may be developed to supplement the State's dependency on oil, coal, and non-renewable resources.

The impacts expected with implementation of the proposed

Agencies consulted

Idaho Department of Fish & Game

U. S. Fish & Wildlife Service

Idaho State Historic Preservation Office

U.S. Environmental Protection Agency

Shoshone-Bannock Tribes

Idaho Department of Water Resources

Idaho Department of Environmental Quality

Lincoln County

Big Wood Canal Co/American Falls Reservoir District 2

The following pages contain copies of correspondence with these agencies.

AFFIDAVIT of PUBLICATION

State of Idaho } ss.
County of Lincoln }

Norma DeVoe, being first duly sworn, deposes and says that he/she is the printer (publisher) of the Lincoln County Journal, a newspaper published every week in Shoshone, County of Lincoln, State of Idaho; that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once each week for

2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 28th day of November, 2002, and the date of the last publication was on the 5th day of December, 2002.

On this 5th day of December in the year of 2002, before me, a Notary Public, personally appeared Norma DeVoe, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he/she executed the same.

SHELLEY STURGEON
Notary Public
State of Idaho

Shelley Sturgeon
Notary Public for Idaho

Residing at Jerome

My commission expires: 12/3/05

LINCOLN COUNTY JOURNAL
Shoshone, Idaho

COST OF PUBLICATION

Number of Picas per Line _____

Number of Lines in Notice _____

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383.63 Lines straight at 26.85 7.0¢/Pica

383.63 Subsequent lines at 23.02 6.0¢/Pica

Affidavit Fee: 2.50

TOTAL COST 52.37 pd

COPY OF NOTICE

(Paste Here)

Public Notice
TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

Geo Sense

BILL TO

PUBLIC NOTICE

Notice is hereby given that the proponent of the proposed Little Wood River Ranch II Hydroelectric Project will hold a resource agency meeting and public scoping on Wednesday, December 11, at 5:00 PM at the Lincoln County Extension Office, 115 West A Street, Shoshone, ID. This hearing is for consideration of the following:

Develop a common understanding of the proposed hydroelectric development at Little Wood River Ranch II; Discuss current and potential resource needs and management objectives for the project area;

Decide what information is needed and what studies are to be done; and Agree on a time frame for discussions of study results.

A guided tour of the project site will be conducted Wednesday, December 11, for all interested parties.

The tour will leave from the Manhattan Cafe in Shoshone. The tour will proceed as a caravan of private vehicles.

A written project summary is currently available for copying and inspection at the Lincoln County Clerk's Office, 111 West B Street, Shoshone, ID. You may also request an electronic copy by sending e-mail to

1003

No 7318

42593

142593

Arkoosh meeting

12/11/02

[REDACTED]

[REDACTED]

[REDACTED]

Manhattan Cafe, 12/11/02, 2:30 PM

No agencies or public arrived between 1:45 PM - 2:45 PM for the
Site tour.

M.S. Just 12/11/02

John Carlwood 12-11-02

Bill Ostermeyer 12/11/02

993 Hydro

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

Little Wood River Ranch II Hydroelectric Project

Public Meeting, Dec 11, 2002

Shoshone, ID

<u>Name</u>	<u>Address</u>	<u>Agency</u>	<u>Phone/Email</u>
Nick Josten	2772 St. Charles Idaho Falls, ID 83404	Geosense	(208) 528-6152 gjosten@geosense.net
Doug Abderhalden	1410 W. Hilton Boise ID 83706	IDEQ - State Office	208-373-0503 dabderha@deg.state.id.us
Corey Skinner	1341 Fillmore St. Suite 200 TWIN FALLS, ID 83301	IDWR	(208) 736-3033 cskinner@idwr.state.id.us
John Ambrosch	2308 E 1775 St Gooding ID 83330		
Billy Ambrosch	2005 Hwy 26 Gooding ID 83330		
Sonny Burdick	601 Poleline Rd. Suite 2 Twin Falls ID 83301	IDEQ-TFRD	208-736-2190 bburh.dan@deg.state.id.us
Rob Sharpnack	601 Poleline Rd Suite #2 Twin Falls, ID 83301	IDEQ-TFRD	208-736-2190 rsharpna@deg.state.id.us
Mike McDonald	P.O. Box 428 Jerome, ID 83338	IDFG - Magic Valley Region	208-324-4359 mmcdonald@idfg.state.id.us

Continued on Page _____

Read and Understood By _____

Signed _____

Date _____

Signed _____

Date _____

Little Wood River Ranch II Hydroelectric
Agency Meeting and Public Hearing
Dec 11, 2002
DRAFT AGENDA

5:00 PM

Welcome and introductions
N. Josten, GeoSense

5:15 PM

Project description
N. Josten, GeoSense

6:00 PM

Resource needs and management objectives for project area
Mike McDonald, Idaho Department of Fish and Game
Sonny Buhidar, Idaho Department of Environmental Quality

6:30

Planned Studies
N. Josten, GeoSense

6:45

Project timeline
N. Josten, GeoSense

6:50

Summary and closing
N. Josten, GeoSense



July 24, 2002

Sonny Buhidar
Idaho Department of Environmental Quality
601 Poleline Road, Suite 2
Twin Falls, ID 83301

Mike McDonald
Idaho Department of Fish and Game
868 E Main
Jerome, ID 83338

Subject: LITTLE WOOD RIVER RANCH II HYDROELECTRIC PROJECT (FERC No. 12063-000)

Gentlemen:

Thank you for taking the time to meet with us on July 23 to look over the proposed Little Wood River Ranch II (LWRR II) hydroelectric project. As agreed during our meeting, I am providing this letter to summarize our discussions and create starting point for establishing the terms and conditions that will be applicable to this project.

Attendees

The following were in attendance at the July 23 meeting in Shoshone, ID:

Bill Arkoosh, Gooding, ID
John Arkoosh, Gooding, ID
Mike McDonald, Idaho Department of Fish and Game (IDFG), Jerome, ID
Scott Grunder, IDFG, Boise, ID
Sonny Buhidar, Idaho Department of Environmental Quality (IDEQ), Twin Falls, ID
Sean Woodhead, IDEQ, Twin Falls, ID
Nick Josten, GeoSense, Idaho Falls, ID

Proceedings

The meeting commenced in Shoshone, ID with Nick Josten presenting an overview of the project plan and answering questions. The group then proceeded to the project site and visited the proposed locations for the new Little Wood River Ranch II diversion and powerhouse, followed by visits to the existing diversion and powerhouse for the Little Wood River Ranch I (LWRR I) facility, which was constructed in 1985. Flows in the Little Wood River were around 400 cfs and the LWRR I project was diverting and operating. The impacts of reduced flows in the Little Wood River could therefore be directly observed at the LWRR I site. These reduced flow conditions are representative of the expected impacts from construction and operation of the new project.

IDFG observations and concerns

The following is an attempt to summarize the main points voiced by IDFG during the course of the meeting:

- IDFG recognizes that the flow regime in the Little Wood River is highly modified from its natural state due to irrigation practices and existing hydroelectric projects.
- There are no federally or state threatened or endangered fish in the Little Wood River through the LWRR I and LWRR II project reaches.

Geophysics
Consulting
and Services

- The Little Wood River does not provide suitable habitat for native, salmonid fish species regardless of the proposed LWRR II project.
- Fish passage past the new proposed diversion is not a priority since the resident, non-native fish are non-migratory.
- IDFG acknowledges that a fish screen for the diversion is not economically feasible, nor necessary to protect threatened or endangered fish species.
- The LWRR I project has had no apparent effect (positive or negative) on riparian habitat, but riparian habitat along all the observed reaches is degraded relative to natural conditions.
- Measures to improve riparian habitat within the LWRR II project reach would be viewed as positive by IDFG
- The cumulative effects of irrigation practices and powerplant construction and operation are a concern to IDFG because of the problems they might present for future native fish restoration efforts on the Little Wood River, should they ever occur.
- The LWRR II project proponents will be responsible for evaluating only the incremental environmental impacts of the proposed project.

IDEQ observations and concerns

The following is an attempt to summarize the main points voiced by Idaho Department of Environmental Quality during the course of the meeting:

- The Little Wood River has been heavily impacted by historic irrigation practices that have caused increased water temperatures and periodic high turbidity levels.
- The proposed hydroelectric project may have temporary negative impacts to water quality (i.e. during construction), but no apparent long term negative impacts.
- Measures to improve riparian vegetation through the project reach would be viewed as beneficial by IDEQ since vegetation can reduce solar heating of the Little Wood River.
- The backwater above the hydroelectric diversion structure is viewed as beneficial by IDEQ because it functions as a silt trap, provided that it can be periodically cleaned.

Minimum flows

Minimum flows for the LWRR II project are proposed as follows:

Month	Minimum Flow (cfs)	Month	Minimum Flow (cfs)
January	13	July	13/35*
February	13	August	13/36*
March	13	September	13/36*
April	13/42*	October	13
May	13/55*	November	13
June	13/48*	December	13

*lower minimum flow value applies during drought conditions

These minimum flows are based on LWRR I operations, with a proposed modification that would apply under drought conditions. The intent of this modification is to provide flow sharing between power production and instream flows when irrigation flows in the Little Wood River fall below average due to drought conditions. A specific plan for flow sharing would be developed in cooperation with IDFG.

Mitigation measures

The LWRR II developers propose the following measures to mitigate for reduced flows within the project reach of the Little Wood River:

Riparian zone improvement – develop and implement a plan, in cooperation with IDFG and IDEQ, to improve native riparian habitat along the Little Wood River through a combination of fencing, removal of exotic vegetation, and planting of native vegetation with the objective of improving the riparian zone for wildlife and to promote shade over the river channel.

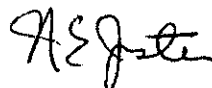
Silt management plan for diversion impoundment – develop and implement a plan, in cooperation with IDFG and IDEQ, to periodically remove silt from the diversion impoundment.

Follow-up

I would appreciate if your agencies could provide clarifications and/or responses to this summary in writing as soon as possible. I would like to have a general agreement before I begin the formal consultation process as required by FERC.

I greatly appreciate your cooperation in evaluating this project. Call me anytime at (208) 528-6152 if you have any questions.

Regards,



Nicholas E. Josten

cc:

Ted Sorenson, Sorenson Engineering
Bill Arkoosh, Gooding, ID
FERC, Washington, DC

Nicholas Josten

From: BALTHASAR BUHIDAR [BBUHIDAR@DEQ.STATE.ID.US]
Sent: Friday, July 26, 2002 4:44 PM
To: gsense@cableone.net
Cc: BALTHASAR BUHIDAR; mmcdonal@idfg.state.id.us
Subject: TO: Nicolas Josten

MEMORANDUM

July 26, 2002

TO: Nicholas Josten
FROM: Dr. Balthasar B. Buhidar, Ph.D.
RE: Little Wood River Ranch II Hydroproject, FERC No. 12063

Nick:

I have read your letter of July 24, 2002 and find that its contents are accurate and reasonable in describing the meeting of July 23, 2002. The Idaho Department of Environmental Quality will be considering water quality issues on the LWR Ranch II Hydroproject (FERC No. 12063). The Idaho Department of Fish and Game will be considering fisheries and habitat issues on the same project.

Relative to water quality, IDEQ does not see any water quality impacts to the Little Wood River at the site based on the project at this time. However, we do note that several benefits will be seen as a result of the project. These benefits include: (1) removal of sediments and silt from the backwater prior to re-entry into the Little Wood River will help to enhance and protect the beneficial uses; and, (2) improved riparian vegetation in the reach can assist in reducing solar radiation to the stream, thus enhancing and protecting the beneficial uses.

To the extent that minimum flows are established as a requirement of the project, we would suggest that minimum flows have a range such that the minimum values reflect drought conditions and that larger values reflect "normal" conditions. We feel this is critical because of the variability in flows normal to this stretch of the Little Wood River and the commonness of drought conditions in this desert country. We caution that the very minimum flows without water movement may enhance algae and macrophyte buildup in the stream along with temperature increase. We recognize that the countryside is conducive to heat development in the stream channel due to the lava rock topography and basalt rock and rhyolite geology, thus making stream temperatures higher than water quality standards. Thus, riparian vegetation along the stream banks is minimal, but appears to be conducive to alders, cottonwoods, willows, and sedges and native grasses. Not all areas along the project site on the Little Wood River appear to have moderate to deep soils for woody development, so site selection for riparian development will be critical. Most of the Little Wood River runs through a canyon that has been gorged deep into the basalt.

On this particular project, we support IDFG's observations and concerns, and in conjunction with our observations and concerns, look forward to the development of cooperative mitigation measures for reduced flows within the project.

If I can be of any further assistance, please don't hesitate to call.

Sincerely,

Dr. Balthasar B. Buhidar, Ph.D.
Regional Manager - Water Quality Protection
Idaho Department of Environmental Quality
Twin Falls Regional Office

**IDAHO FISH & GAME**

600 South Walnut
P.O. Box 25
Boise, Idaho 83707-0025

Dirk Kempthorne / Governor
Rod Sando / Director

August 23, 2002

Mr. Nicholas E. Josten
GeoSense
2742 St. Charles Avenue
Idaho Falls, ID 83404

Re: Discussion Summary of the Little Wood River Ranch II Hydroelectric
Project (FERC No. 12063-000) Tour of July 23, 2002

Dear Mr. Josten:

The Idaho Department of Fish and Game (IDFG) has reviewed the discussion summary of the July 23, 2002 tour of the proposed Little Wood River Ranch II Hydroelectric Project and we offer the following comments for the record.

IDFG Observations and Concerns

Threatened, Endangered and Sensitive (TES) Species: The applicant should solicit a species list from the U.S. Fish and Wildlife Service if he has not already done so. Our comments regarding TES species are accurate to the best of our knowledge.

Habitat Suitability for Native Salmonids: Loss of habitat from floodplain development, irrigation diversions, livestock grazing, and hydropower development has adversely impacted fish habitat and wild trout populations. Currently, the lower reaches of the Little Wood River provide marginal spawning and summer rearing habitat for native salmonids. However, winter habitat conditions may be suitable and with riparian restoration and enhancement, habitat conditions could improve and support trout populations in the future. The IDFG's current management direction for the Little Wood River from the mouth upstream to Shoshone (Milner-Gooding Canal) is to maintain it as a smallmouth bass fishery. Our long-range vision would change if habitat conditions improve and the lower drainage becomes suitable to support salmonids.

Fish Passage: We agree that fish passage is not a priority based on current habitat conditions and our belief that native salmonids are extremely low in abundance. We are also unsure whether smallmouth bass (the primary game species present) will use fish

Mr. Nicholas E. Josten
August 23, 2002
Page 2

ladders. In regards to fish passage, we stated that restoration and enhancement of the riparian area on Mr. Arkoosh's private lands would be a reasonable mitigation proposal.

Fish Screen: We did not state that a fish screen was economically infeasible, but we concur that a fish screen is probably not warranted at this facility until some future time if and when the lower Little Wood River can support trout. However, significant riparian restoration and enhancement activities on the applicant's private lands are reasonable mitigation measures.

Minimum Flows

As discussed on-site, once agreed upon between the IDFG and applicant, we will not consider any deviations from mandatory terms and conditions relative to bypass flows. Bypass flows are typically subsistence flows for aquatic resources and as such, are the minimum necessary to support aquatic biota and riparian-wetland communities. If sufficient river flows are unavailable to operate the facility without using the mandatory bypass flows, then the hydropower facility will be shut off so as not to cause injury to natural resources.

The applicant's proposed annual flow regime in the bypass reach, including the minimum of 13 cubic feet per second (cfs), is tentatively acceptable to the IDFG pending clarification of your concept of "flow sharing" during drought conditions. A "floating" minimum bypass flow to be annually negotiated is not acceptable. Instead, the IDFG proposes an absolute minimum bypass flow of 10 cfs or inflow that will be considered only during a state-declared drought emergency by the Director of the Idaho Department of Water Resources for the Little Wood River drainage. Before any deviation from the mandatory minimum bypass flow of 13 cfs can take effect, the IDFG must agree to it in writing.

The applicant must have a method of assuring that minimum bypass flows are provided to protect aquatic and riparian resources. We request that an automated flow-measuring device be installed in the bypass reach and that an annual readout be provided to us to ensure compliance.

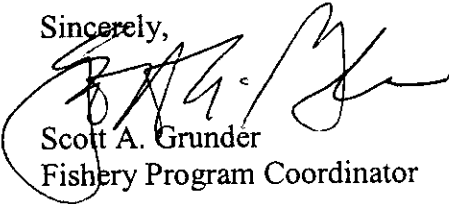
Mitigation Measures

As discussed during the tour, restoration and enhancement of the riparian corridor on Mr. Arkoosh's property will provide significant benefits to fish and wildlife and is an appropriate mitigation measure. We will consider cost sharing between the applicant and the IDFG; however, the majority of costs associated with the mitigation measure should be borne by the applicant.

Mr. Nicholas E. Josten
August 23, 2002
Page 3

Thank you for the opportunity to review the discussion summary. If you have any questions, please contact Mike McDonald, Environmental Staff Biologist, at 208-334-4359 or me at 208-334-3180.

Sincerely,



Scott A. Grunder
Fishery Program Coordinator

SG:tlv

cc: IDFG-Magic Valley Region (Mike McDonald)
DEQ-Twin Falls Regional Office (Sonny Buhidar)
USFWS (Bob Ruesink)
IDPR-State Office (Mary Lucachick)
Attorney General's Office (Harriet Hensley)
FERC-Washington, D.C. (Magalie Salas)

Nicholas Josten

To: mmcdonal@idfg.state.id.us

Subject: Riparian improvement

September 16, 2002

Mike,

I would like to begin defining the scope of the mitigation measures proposed for the Little Wood River Ranch II hydroelectric project.

I spoke with Bill Arkoosh, and he felt he could do the following:

1. Remove russian olive trees along the reach of the Little Wood R affected by the new project.
2. If deemed beneficial by the IDFG, remove russian olives along the reach affected by the existing project (i.e. downstream from new project). It was felt this might prevent reseeding of the trees.
3. Provide labor to erect fence on both sides of the reach affected by the new project.
4. Participate with IDFG in applying for Habitat Improvement Program (HIP) funds to cover cost of fencing materials.

Bill noted that it would be necessary to provide some water gaps for livestock crossing of the fenced corridor.

Please let me know if this general plan is acceptable to IDFG and whether you have had any feedback yet from Mark Fleming about the HIP funds.

Regards,
Nick Josten

Nicholas E. Josten
2742 Saint Charles Avenue
Idaho Falls, ID 83404
(208) 528-6152

9/16/2002



IDAHO FISH & GAME

600 South Walnut
P.O. Box 25
Boise, Idaho 83707-0025

Dirk Kempthorne/Governor
Steven Huffaker/Director

September 23, 2002

Mr. Nicholas E. Josten
GeoSense
2742 St. Charles Avenue
Idaho Falls, ID 83404

Re: Proposed Mitigation Measures for the Little Wood River Ranch II Hydroelectric Project (FERC # 12063)

Dear Mr. Josten:

The Idaho Department of Fish and Game (IDFG) has reviewed the proposed mitigation measures for the Little Wood River Ranch II hydroelectric project and we offer the following comments regarding riparian restoration and enhancement.

1. We concur with removal of Russian olive trees along the affected reach and the reach affected by the existing project. This will be necessary to reduce competition with native tree species along the riparian area.
2. Fencing the entire reach affected by the Little Wood River Ranch II project will be necessary to achieve desired results. The fence should meet specified criteria to facilitate wildlife movement through the project area. The IDFG will provide fence specifications.
3. The IDFG acknowledges the need to include water gaps for livestock. Please confer with us regarding the location, size, and number of water gaps.
4. The IDFG can provide cost-share funding on fencing materials; however, as noted in our August 23, 2002 letter, we feel the majority of costs associated with the mitigation measures should be borne by the applicant.

In addition, we recommend the mitigation proposal incorporate the following:

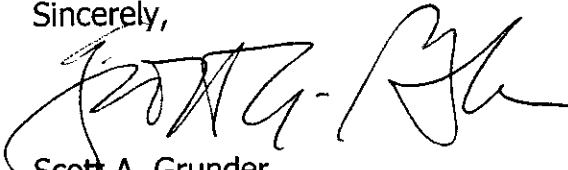
1. Provisions for planting native riparian vegetation.
2. A plan for long-term monitoring and control of noxious and invasive plant species.

Mr. Nicholas E. Josten
September 23, 2002
Page 2

3. A five-year plan for monitoring restoration and enhancement efforts. A level of native plant reestablishment that includes woody and herbaceous species composition and cover should be the basis for monitoring.
4. A timetable for project completion.

Thank you for the opportunity to review the mitigation proposal. If you have any questions, please contact Mike McDonald, Environmental Staff Biologist, at 208-324-4359 or me at 208-334-3180.

Sincerely,



Scott A. Grunder
Fishery Program Coordinator

SAG:tlv

Cc: IDFG-Magic Valley Region (Mike McDonald)
DEQ-Twin Falls Regional Office (Sonny Buhidar)
USFWS (Bob Ruesink)
IDPR-State Office (Mary Lucachick)
Attorney General's Office (Harriet Hensley)
FERC (Magalie Salas)

Nicholas Josten

From: BALTHASAR BUHIDAR [BBUHIDAR@DEQ.STATE.ID.US]
Sent: Monday, December 16, 2002 12:05 PM
To: gsense@cableone.net
Cc: BALTHASAR BUHIDAR
Subject: Nick Josten - LWR II Hydroelectric Project (FERC No. 12063)

Nick:

As promised at the December 11, 2002 public hearing meeting, here is some language you may want to consider in addressing the issue of water quality in the license application for LWR II Hydroelectric Project (FERC No. 12063):

1. SILTATION/SEDIMENT

The water source is the Middle Snake River that has been diverted through the Milner-Gooding Canal and then siphoned to the Little Wood River with other water in the Little Wood River. Return tailwater is also picked up, so that by the time the water gets to the project site, the water quality is deteriorated in the Little Wood River. The project will be able to reduce the amount of sediment that gets back into the Little Wood River by diverting the water through a 3400 foot open canal that has the potential to drop out sediment. This water would then enter a 110 inch diameter penstock which would feed into a powerhouse containing the turbines. Water would then exit the penstock into a tailrace canal which would also allow the sediment to drop out. This water would then re-enter the Little Wood River at a much better water quality. On an annual basis the applicant would be dredging both canals. The amount of dredged sediment could easily be estimated by the applicant on a truckload basis. Thus, the backwater above the hydroelectric diversion structure is beneficial to water quality if the applicant provides annual cleanup.

2. TEMPERATURE

If sediment and siltation are reduced, then there is a strong probability that temperature by this action alone would be decreased. The extent of temperature reduction would be dependent on the amount of actual sediment/silt that is removed from the water. At the present time, and based on the scenario that sediment would be reduced, there is a high probability that temperature would be reduced as well.

3. DISSOLVED OXYGEN

The penstock will have a 40 foot drop before it is returned back into the Little Wood River. This level of drop should allow for recharge of dissolved oxygen into the water. The reduction in sediment/siltation should also enhance the ability for the water to displace the lost sediment and siltation with dissolved oxygen.

4. FLOWS

Altered flows are a significant concern. To the extent that minimum flows will be recognized without infringing on local water rights, the minimum flows proposed and acceptable to IDFG should also suffice for IDEQ. Under Idaho regulations, IDEQ propose the adoption and the enforcement of flow standards (such as minimum flows) if the standards conflict with the apportionment of water to the state. Nor can IDEQ interfere with the rights of Idaho appropriators, either now or in the future, in the utilization of the water appropriations. To this extent IDEQ supports IDFG's minimum flows, so long as the flow delivery does not interfere with the apportionment of water or the rights of Idaho appropriators.

5. RIPARIAN ENHANCEMENT

The project area is devoid of wetlands and a true riparian zone. To the extent practical, the development of riparian enhancement should be considered in those areas where the soil profile allows for it. But we need to be realistic that certain portions of the Little Wood River corridor do not lend themselves to riparian development due to the nature of the geology, land morphology, and topology of the area. Enhancement of true riparian native plants is encouraged with the diminishing of introduced foreign species. The issue of riparian enhancement should be considered for the sake of wildlife and habitat development. To some extent, but depending on the amount of riparian development, temperature may be reduced if sufficient riparian areas exist.

6. TMDL ISSUES

The Little Wood River Watershed Management Plan is yet to be finished. IDEQ encourages the applicant to participate with the Wood River Watershed Advisory Group in the development of the TMDL, but other environmental issues that may be impacting the Little Wood River subbasin in the years to come.

(END)



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

September 18, 2002

Bill Arkoosh
2005 US Highway 26
Gooding, ID 83330

Dear Mr. Arkoosh:

Please find an Application for Permit that you recently submitted to our office. A preliminary review of the application revealed that it is incomplete and cannot be accepted for processing. We are returning your application to allow you to complete the necessary items as outlined below...

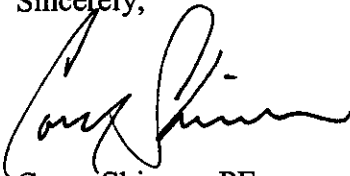
- Item #1 of the application was not completed (the applicant's name, address and phone number).
- Item #7 of the application was not completed (time required for beneficial use of water).
- Item #9 of the application should only identify the location of the power plant with a "P" symbol. The "600" does not need to be included in this section.
- Item #10 should only refer to water rights used in the proposed facility. The water right for the facility located downstream should not be identified in this section.
- Item #11, sections a, b, and c, (ownership of proposed point of diversion and place of use) was not completed on the application.
- The map that was included with the application did not identify the Township and Range where the proposed project is to be located.
- The filing fee was not included with the application. The application lists a diversion rate of 600 cfs, which would require a filing fee of \$6,810.00. I have included a copy of the instructions for completing an Application for Permit that includes the filing fee schedule for your reference.

Page 2
Bill Arkoosh Letter
September 18, 2002

Nicholas Josten recently contacted me regarding your proposal. Mr. Josten mailed a document entitled "Little Wood River Ranch II Hydroelectric Project Summary" to our office, which we received the same day we received the enclosed application that you submitted. The document provided by Mr. Josten indicated that the proposed maximum diversion would be 500 cfs. Note that your application is for a diversion of 600 cfs. This discrepancy needs to be addressed. Also note that the amount of water applied for, determines the amount of filing fee that needs to be submitted. I have included the copy of the document entitled "Little Wood River Ranch II Hydroelectric Project Summary" submitted by Mr. Josten along with your application for your reference. I am sending a copy of this letter, along with copies of the relevant documents, to Mr. Josten for his reference.

If you have any questions, or if you need any further assistance, feel free to contact this office at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Corey Skinner", written over the printed name.

Corey Skinner, PE
Water Resource Engineer

Enclosures

cc: Nicholas Josten

The SHOSHONE-BANNOCK TRIBES

P. O. BOX 306
FORT HALL, IDAHO 83203
PHONE (208) 478-3706
FAX# (208) 237-0797



CULTURAL RESOURCES
HERITAGE TRIBAL OFFICE (HETO)
email: heto@poky.srv.net

October 30, 2002

Nicholas E. Josten
GeoSense
2742 St. Charles Avenue
Idaho Falls, ID 83404

Dear Mr. Josten:

The Shoshone-Bannock Heritage Tribal Office (HeTO) appreciates the opportunity to provide technical comments to the Little Wood River Ranch II Hydroelectric project.

Being that the above named project would be constructed on privately owned land federal statutes would not apply regarding inadvertent discoveries. However, Idaho Code, Section 27-501 to 504: Grave Protection must be complied with.

The purpose of this letter is to provide technical input and not intended as formal government-to-government consultation. Should there be any concerns or questions, feel free to contact me at (208) 478-3706.

Sincerely,


for Diana K. Yupe
Tribal Anthropologist

DY/llb

Cc: File/FERC-CRM Incoming

Big Wood Canal Company
American Falls Reservoir District No. 2
112 S. Apple * Box C
Shoshone, Idaho 83352
(208) 886-2331 Fax (208) 886-2010

September 18, 2002

Nicholas E. Josten, Project Engineer
Geo Sense
2742 St. Charles Avenue
Idaho Falls, Idaho 83404

Re: Little Wood River Ranch II Hydroelectric, FERC No. 12063

Dear Mr. Josten,

I have reviewed the proposed hydro project Mr. Arkoosh has planned for the Little Wood River west of Shoshone and have a couple of concerns as we do wheel water down Little Wood from April through October each year. Since we are responsible for delivery of irrigation water to farms in the Gooding area it is important to keep flows as constant as possible. Interruptions and major fluctuations in flows cause major problems for pump diverters off our system downstream. Your design appears to allow water to flow fairly uninterrupted instead of backing up the river for a long period of time before overflowing into a by-pass. We have had some problems in the past with by-pass designs that cause water to back up for an extended period of time before overflowing back to the river. I encourage you to check to make sure that if the plant goes off line it will not back up the river for an extended time before overflowing into the bypass.

My other concern is with the minimum flows that are being considered for Little Wood River below the diversion into the power canal. I am not sure if there are any decree water rights diverted from this section of the river, but you should contact Mr. Lee Peterson, Watermaster for District 37 & 37-M in Shoshone at 886-2451 to make sure. If there are any irrigation diversions in this reach it is important that adequate flow is available to make these deliveries.

I thank you for the opportunity to comment on these issues and want to encourage you as our organization is in support of hydro development as a clean renewable energy resource.

Sincerely,


Lynn Harmon,
General Manager



United States Department of the Interior

file: Littlewood River
Audio

OFFICE OF THE SECRETARY
Office of Environmental Policy and Compliance
500 NE Multnomah Street, Suite 356
Portland, Oregon 97232-2036

September 26, 2001

IN REPLY REFER TO:
ER01/0769

Honorable David P. Boergers
Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, D.C. 20426

Subject: **COMMENTS** – Notice of Application for Preliminary Permit for the Littlewood River Ranch II Hydroelectric Project, FERC No. 12063-000, Little Wood River, Lincoln County, Idaho

Dear Mr. Boergers:

The Department of the Interior (Department) has reviewed the August 3, 2001, Notice of Application for Preliminary Permit for the proposed Littlewood River Ranch II Hydroelectric Project, FERC No. 12063-000, located on the Little Wood River, Lincoln County, Idaho. The following comments reflect considerable concern about environmental impacts related to the issuance and exercise of the requested preliminary permit, and for potential project-related impacts should a license for project construction and operation eventually be pursued. If the requested preliminary permit is issued, we recommend that the applicant devote special attention to the following areas of concern.

The proposed project has the potential to adversely impact trust resources and areas of special interest to the Department. The applicant should be made aware that the Department's overall goal is to restore and protect Federal trust resources by restoring and maintaining as self-sustaining, the function, structure, and species composition of the Little Wood River and associated waterways. Thus, we will be reviewing the project from an ecosystem perspective, considering whether the project can be successfully integrated into a self-sustaining ecosystem.

In determining the environmental effects of this project, we recommend that the applicant devote special attention to the following areas of concern.

Fish and Wildlife Resources

Issuance of a preliminary permit should be demonstrated as consistent with a comprehensive plan for the Little Wood River and associated waterways. If a preliminary permit is issued, the applicant should initiate phase one of the Commission's three-step consultation process (FR 50[67]: 11633) with the U.S. Fish and Wildlife Service (Service), the Idaho Department of Fish and Game, the U.S. Bureau of Indian Affairs, and any Indian Tribe or Nation whose treaty rights may be affected by the project. Consultation should be initiated early in the planning process for guidance in conducting project investigations to protect, mitigate possible damage to, and enhance fish and wildlife resources. Certain studies may be needed before the Department can recommend license articles to the Commission should the applicant eventually apply for a license. It is especially important for the applicant to initiate consultation so that studies may begin in a timely fashion and delays may be avoided. Without the studies, the Service may advise the Department to recommend that the Commission reject an eventual license application as deficient. This correspondence does not constitute consultation pursuant to the Commission's regulations.

Fish and other aquatic resources may be affected by project construction, flow fluctuations, flow reductions, blockage of upstream and downstream passage, and air entrainment in the penstocks resulting in nitrogen supersaturation in waters below the tailrace. Wildlife, including game and nongame species, may be affected by

loss of habitat or by disturbance from construction activities. Wetland and riparian habitats may be permanently altered or lost as a result of project construction and operation. Raptors and other birds may be killed or crippled by collision or electrocuted if power transmission lines and towers are improperly designed and/or located. Fish, plant, and wildlife losses may result in derogation of tribal treaty trusts that Federal agencies must protect. The Service will fully exercise its responsibility outlined in its Mitigation Policy (FR 46(15):7643) to obtain in-kind replacement for lost or threatened habitat functions and values.

To evaluate a project proposal and provide application review and license recommendations and stipulations, the Service recommends that the applicant arrange for, fund, and have conducted the following studies:

1. A survey of the project-affected area to accurately estimate the occurrence, relative abundance, and distribution of game and nongame fish and other aquatic species;
2. A survey of the project-affected area to estimate the occurrence, relative abundance, and distribution of game and nongame wildlife species;
3. A survey and mapping of vegetative communities that exist within the project area;
4. A detailed evaluation of project-related impacts to fish, plants, and wildlife and their habitats;
5. A flow study and hydraulic analysis, such as the Instream Flow Incremental Method, that will identify flows required to maintain habitat for spawning, incubation, rearing, adult holding, and passage of fishes in the flow-affected sections of the project area;
6. An evaluation of alternative designs and methods of operation of the powerplant, dam, and intakes, including fishways, that would minimize or prevent losses of downstream migrant fish due to project operation. The applicant should also be responsible for an evaluation of upstream passage structures to provide unimpeded movement of fish upstream past the dam. The Service may reserve the right to specify, through the Secretary of the Interior, whatever fishways are needed to ensure the safe movement of fish past this project according to the requirements of Section 18 of the Federal Power Act.
7. Habitat Evaluation Procedures developed by the Service are useful to assess potential wildlife and plant habitat losses and mitigation and compensation needs. The Service will recommend license conditions that provide flows and other mitigation to ensure the continued integrity and viability of riparian and wetland habitats on the Little Wood River for the benefit of fish, plants, and wildlife.
8. Provide an evaluation of alternative designs and locations of powerlines and power-transmission corridors to prevent mortality to raptors, waterfowl, or other avian species by electrocution or impact. To avoid prohibitions of the Migratory Bird Treaty Act the applicant should design and construct the power transmission system to prevent bird mortality and injury.
9. It may be necessary for the applicant to develop certain detailed environmental plans prior to license application (e.g. land management plan, mitigation plan, erosion control plan, site restoration/reclamation plan).

During phase one of the consultation process, the Service will provide specific study recommendations on these and other areas of study and planning, which should take into full consideration Section 1100 of the Northwest Power Planning Council's Columbia River Basin Fish and Wildlife Program and the Council's Northwest Conservation and Energy Plan.

Threatened And Endangered Species

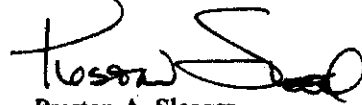
In accordance with Section 7 of the Endangered Species Act of 1973, as amended (Act), the Commission is required to assure that its actions do not jeopardize the continued existence of listed species. We have enclosed a list (Enclosure A) of endangered, threatened, proposed, and/or candidate species that may be present in the proposed project area. The list fulfills the requirements of the Service under Section 7(c) of the Act. The requirements for Federal agency compliance under the Act are outlined in Enclosure B. Please refer to the species list number on Enclosure A in all subsequent correspondence, reports, environmental assessments, environmental impact statements, and biological assessments (evaluations). If the project does not begin within 180 days of this response, a subsequent species list request is required by regulation.

Candidate species that appear on Enclosure A have no protection under the Act, but are included for early planning consideration. Proposed species could be formally listed and candidate species could be formally proposed and listed during project planning, thereby falling within the scope of Section 7 of the Act. Therefore, if they appear on Enclosure A, we recommend that additional surveys be made for proposed and/or candidate species that are likely to be in your project area. If the project is likely to adversely impact a candidate species, informal consultation with the Service is recommended.

The applicant should understand that the Service is interested in seeing these concerns addressed during the term of the preliminary permit to prevent unnecessary delays and to assist in the creation of an environmentally acceptable project. After issuance of the preliminary permit, the applicant should contact the Snake River Basin Fish and Wildlife Office to discuss these concerns in more detail. Consultation, technical assistance requests, questions, comments, documents, and required progress reports should be directed to Mr. Robert G. Ruesink, Project Leader, U.S. Fish and Wildlife Service, Snake River Basin Fish and Wildlife Office, 1387 South Vinnell Way, Room 368, Boise, Idaho 83709 (208-378-5243).

We appreciate the opportunity to review this preliminary permit. We have no objection to issuance of the requested permit provided the applicant is directed to consult with the Fish and Wildlife Service, other affected Departmental bureaus, and any Indian tribe that may be affected by the proposed project.

Sincerely,



Preston A. Sleeper
Regional Environmental Officer

Enclosures

ENCLOSURE A

LISTED AND PROPOSED ENDANGERED AND THREATENED
SPECIES, AND CANDIDATE SPECIES THAT MAY OCCUR
WITHIN LINCOLN COUNTY, IDAHO
SP #1-4-01-SP-1084

LISTED SPECIES

COMMENTS

Gray wolf (XN)
(*Canis lupus*)

Experimental/Non-
essential population

Ute ladies'- tresses (LT)
(*Spiranthes diluvialis*)

PROPOSED SPECIES

None

CANDIDATE SPECIES

Yellow-billed cuckoo (C)
(*Coccyzus americanus*)

GENERAL COMMENTS

LE - Listed endangered
LT - Listed threatened
XN - Experimental/non-essential population
PT - Proposed threatened
C - Candidate

GRAY WOLF (*Canis lupus*) -- The gray wolf is listed as endangered in the Interior Columbia Basin Ecosystem Management Project, except where it is listed as a nonessential experimental population in Wyoming, and portions of Idaho and Montana. Within the central Idaho area, the nonessential experimental population areas are those portions of Idaho that are south of Interstate Highway 90 and west of Interstate Highway 15, and those portions of Montana south of Interstate Highway 90, Highway 93 and 12 from Missoula, Montana west of Interstate Highway 15. Portions of the Yellowstone Management Area (YMA) in Idaho and Montana are designated as the nonessential experimental population area. The boundaries of the YMA include that portion of Idaho that is east of Interstate Highway 15; that portion of Montana that is east of Interstate Highway 15 and south of the Missouri River from Great Falls, Montana, to the eastern Montana border; and all of Wyoming.

Federal action agencies are required to confer with the Service if their actions are likely to jeopardize the continued existence of gray wolves; or you have the option of conferring with the Service regardless of the determination.

UTE LADIES'-TRESSES (*Spiranthes diluvialis*) has the potential to occur in wetland and riparian areas including springs, wet meadows, and river meanders. The plant is known to occur at sites ranging from 1,500 to 7,000 feet in elevation. This species generally flowers from mid-July through September, and can be identified definitively only at that time. The orchid can remain dormant for several years; therefore, we suggest surveys for the orchid be scheduled for sequential years. The species may be adversely affected by modification of riparian and wetland habitats associated with livestock grazing, vegetation removal, excavation, construction for residential or commercial purposes, stream channelization, hydroelectric development and operation, and actions that alter hydrology.

ENCLOSURE B

FEDERAL AGENCIES' RESPONSIBILITIES UNDER SECTIONS 7(a) and (c) OF THE ENDANGERED SPECIES ACT

SECTION 7(a) Consultation/Conference

Requires: (1) Federal agencies to utilize their authorities to carry out programs to conserve endangered and threatened species; (2) Consultation with FWS when a Federal action may affect a listed endangered or threatened species to insure that any action authorized, funded, or carried out by a Federal agency is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. The process is initiated by the Federal agency after determining the action may affect a listed species; and (3) Conference with FWS when a Federal action is likely to jeopardize the continued existence of a proposed species or result in destruction or adverse modification of proposed critical habitat.

SECTION 7(c) Biological Assessment-Major Construction Activity¹

Requires Federal agencies or their designees to prepare a Biological Assessment (BA) for major construction activities. The BA analyzes the effects of the action² on listed and proposed species. The process begins with a Federal agency requesting from FWS a list of proposed and listed threatened and endangered species. The BA should be completed within 180 days after its initiation (or within such a time period as is mutually agreeable). If the BA is not initiated within 90 days of receipt of the list, the accuracy of the species list should be informally verified with our Service. No irreversible commitment of resources is to be made during the BA process which would foreclose reasonable and prudent alternatives to protect endangered species. Planning, design, and administrative actions may proceed; however, no construction may begin.

We recommend the following for inclusion in the BA: an on-site inspection of the area affected by the proposal which may include a detailed survey of the area to determine if the species or suitable habitat is present; a review of literature and scientific data to determine species' distribution, habitat needs, and other biological requirement; interviews with experts, including those within FWS, State conservation departments, universities and others who may have data not yet published in scientific literature; an analysis of the effects of the proposal on the species in terms of individuals and populations, including consideration of indirect effects of the proposal on the species and its habitat; an analysis of alternative actions considered. The BA should document the results, including a discussion of study methods used, and problems encountered, and other relevant information. The BA should conclude whether or not a listed or proposed species will be affected. Upon completion, the BA should be forwarded to our office.

¹ A construction project (or other undertaking having similar physical impacts) which is a major federal action significantly affecting the quality of the human environment as referred to in NEPA (42 U.S.C. 4332(2)(C)).

² "Effects of the action" refers to the direct and indirect effects of an action on the species or critical habitat, together with the effects of other activities that are interrelated or interdependent with that action.



April 30, 2002

Nicholas E. Josten
GeoSense
2742 St. Charles Ave.
Idaho Falls, Idaho 83404

RE: Arkoosh Hydro Near Gooding (FERC No. 12063-000)

**Our mission: to educate
through the identification,
preservation, and interpretation
of Idaho's cultural heritage.**

Dirk Kempthorne
Governor of Idaho

Steve Guerber
Executive Director

Administration
1109 Main Street, Suite 250
Boise, Idaho 83702-5642
Office: (208) 334-2682
Fax: (208) 334-2774

Archaeological Survey
210 Main Street
Boise, Idaho 83702-7264
Office: (208) 334-3847
Fax: (208) 334-2775

Capitol Education Center
Statehouse/P.O. Box 83720
Boise, Idaho 83720-0001
Office: (208) 334-5174

**Historical Museum and
Education Programs**
610 North Julia Davis Drive
Boise, Idaho 83702-7695
Office: (208) 334-2120
Fax: (208) 334-4059

Historic Preservation Office
210 Main Street
Boise, Idaho 83702-7264
Office: (208) 334-3861
Fax: (208) 334-2775

Historic Sites Office
2445 Old Penitentiary Road
Boise, Idaho 83712-8254
Office: (208) 334-2844
Fax: (208) 334-3225

**Library/Historical and
Genealogical Collection**
450 North Fourth Street
Boise, Idaho 83702-6027
Office: (208) 334-3356
Fax: (208) 334-3198

Oral History
450 North Fourth Street
Boise, Idaho 83702-6027
Office: (208) 334-3863
Fax: (208) 334-3198

**Memberships and
Outreach and Development**
1109 Main Street, Suite 250
Boise, Idaho 83702-5642
Office: (208) 334-3986
Fax: (208) 334-2774

Publications
450 North Fourth Street
Boise, Idaho 83702-6027
Office: (208) 334-3428
Fax: (208) 334-3198

State Archives/Manuscripts
2205 Old Penitentiary Road
Boise, Idaho 83712-8250
Office: (208) 334-2620
Fax: (208) 334-2626

Dear Mr. Josten:

Thank you for requesting our views on the proposed construction of a small hydroelectric project on the Little Wood River near Gooding, Idaho (T5S, R16E, Section 26 and 27).

Our records indicate that the project is located in an area sensitive for archaeological resources. We therefore recommend that you contract with a professional archaeologist to survey the project area prior to any ground disturbing activities. The project area should include any access roads and power lines. Additionally, the survey should be conducted when ground visibility is good and a report sent to our office for review. Depending upon the results, we may recommend avoiding historic properties, archaeological monitoring or testing, or proceeding as planned.

If any of the project is located on Federal land, you should consult with the Federal agency archaeologist before you have the area surveyed.

We recognize that our office did not recommend a survey in 1983. We are doing so now with the understanding that, in the past 20 years, new discoveries have been made in the general area and standards in Section 106 Review have changed.

We appreciate your cooperation. Enclosed is a directory of archaeologists who live in Idaho. Those generally available for contracting are listed under Independents. If you have any questions, feel free to contact me at 208-334-3847.

Sincerely,

Susan Pengilly Neitzel
Deputy SHPO and
Compliance Coordinator



The Idaho State Historical Society is an Equal Opportunity Employer.



June 13, 2002

John Olson
USEPA – Region 10
1485 North Orchard Street
Boise, ID 83706

Subject: LITTLE WOOD RIVER RANCH II HYDROELECTRIC, FERC No. 12063

Dear John:

I represent Bill Arkoosh, who wishes to develop a small hydroelectric project on the Little Wood River near Gooding, ID. The proposed project, which will have a maximum generating capacity of about 1600 kW, would be operated as a run-of-the-river project using existing flows in the Little Wood River below the Milner – Gooding canal. I have attached a project summary for your review.

We will be seeking a FERC license for this project and FERC requires that we consult with the USEPA prior to submitting a license application. By this letter we wish to solicit your views concerning potential environmental impacts from the proposed project.

We feel that this project has many positive aspects including production of clean, renewable energy to meet Idaho's peak energy needs.

Your attention to this matter is sincerely appreciated. Please contact me at (208) 528-6152 if you have any questions.

Regards,

Nicholas E. Josten
Project engineer

cc:

Ted Sorenson, Sorenson Engineering
Bill Arkoosh, Gooding, ID
FERC, Washington DC

No response received from EPA through July, 2003.

8/1/03



November 20, 2002

Mr. John Olson
US Environmental Protection Agency
1485 North Orchard St
Boise, ID 83706

Subject: AGENCY MEETING AND PUBLIC SCOPING, LITTLE WOOD RIVER
RANCH II HYDROELECTRIC PROJECT (FERC NO. 12063)

Dear Sir or Madam:

Notice is hereby given that the proponent of the proposed Little Wood River Ranch II Hydroelectric Project will hold a resource agency meeting and public scoping on Wednesday, December 11, at 5:00 PM at the Lincoln County Extension Office, 115 West A Street, Shoshone, ID. This hearing is for consideration of the following:

- Develop a common understanding of the proposed hydroelectric development at Little Wood River Ranch II;
- Discuss current and potential resource needs and management objectives for the project area;
- Decide what information is needed and what studies are to be done; and
- Agree on a time frame for discussions of study results.

A guided tour of the project site will be conducted Wednesday, December 11 for all interested parties. The tour will leave from the Manhattan Café in Shoshone, ID at 2:00 PM. The project site is located about 6 miles northwest of Shoshone. The tour will proceed as a caravan of private vehicles.

A written project summary is currently available for copying and inspection at the Lincoln County Clerk's Office, 111 West B Street, Shoshone, ID. You may also request an electronic copy by sending e-mail to gsense@cableone.net.

Regards,

Nicholas E. Josten
(208) 528-6152

cc:
FERC, Washington, DC

No response received from EPA through July 2003.



June 13, 2002

Ritchie Graves
NMFS
525 NE Oregon St
Portland, OR 97232-5417

Subject: LITTLE WOOD RIVER RANCH II HYDROELECTRIC, FERC No. 12063

Dear Ritchie:

I represent Bill Arkoosh, who wishes to develop a small hydroelectric project on the Little Wood River near Gooding, ID. The proposed project, which will have a maximum generating capacity of about 1600 kW, would be operated as a run-of-the-river project using existing flows from the Little Wood River below the Milner — Gooding canal. I have attached a project summary for your review.

We will be seeking a FERC license for this project and FERC requires that we consult with the NMFS prior to submitting a license application. By this letter we wish to solicit your agency's preliminary views concerning potential impacts from the proposed project.

We feel that this project has many positive aspects including production of clean, renewable energy to meet Idaho's peak energy needs. Your attention to this matter is sincerely appreciated. Please contact me at (208) 528-6152 if you have any questions.

Regards,

Nicholas E. Josten
Project engineer

cc:
Ted Sorenson, Sorenson Engineering
Bill Arkoosh, Gooding, ID
FERC, Washington DC

No response received from NMFS through July 2003.

N E Josten
8/1/03

Geophysics
Consulting
and Services



November 20, 2002

Mr. Ritchie Graves
National Marine Fisheries Service
525 NE Oregon St
Portland, OR 97232-5417

Subject: AGENCY MEETING AND PUBLIC SCOPING, LITTLE WOOD RIVER
RANCH II HYDROELECTRIC PROJECT (FERC NO. 12063)

Dear Sir or Madam:

Notice is hereby given that the proponent of the proposed Little Wood River Ranch II Hydroelectric Project will hold a resource agency meeting and public scoping on Wednesday, December 11, at 5:00 PM at the Lincoln County Extension Office, 115 West A Street, Shoshone, ID. This hearing is for consideration of the following:

- Develop a common understanding of the proposed hydroelectric development at Little Wood River Ranch II;
- Discuss current and potential resource needs and management objectives for the project area;
- Decide what information is needed and what studies are to be done; and
- Agree on a time frame for discussions of study results.

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Regards,

Nicholas E. Josten
(208) 528-6152

cc:
FERC, Washington, DC

No response received from NMFS through July 2003.

N E Josten
8/1/03



September 16, 2002

Carol Boudreau
Lincoln County Planning and Zoning
111 West B Street
Shoshone, ID 83352

Subject: LITTLE WOOD RIVER RANCH II HYDROELECTRIC, FERC No. 12063

Dear Ms. Boudreau:

I represent Bill Arkoosh, who wishes to develop a small hydroelectric project on the Little Wood River near Gooding, ID. The proposed project, which will have a maximum generating capacity of about 1600 kW, would be operated as a run-of-the-river project using existing flows in the Little Wood River below the Milner – Gooding canal. I have attached a project summary for your review.

We will be seeking a FERC license for this project. By this letter we wish to solicit your views concerning potential impacts to Lincoln County operations. It would be most helpful if you could provide a statement of county concerns, if any, in writing so that we can address them during our ongoing planning.

We feel that this project has many positive aspects including production of clean, renewable energy to meet Idaho's peak energy needs.

Please contact me at (208) 528-6152 if you have any questions.

Regards,

Nicholas E. Josten
Project engineer

cc:

Ted Sorenson, Sorenson Engineering
Bill Arkoosh, Gooding, ID
FERC, Washington DC

Geophysics
Consulting
and Services



November 20, 2002

Ms. Carol Boudreau
Lincoln County Zoning and Planning
111 West B Street
Shoshone, ID 83352

Subject: AGENCY MEETING AND PUBLIC SCOPING, LITTLE WOOD RIVER
RANCH II HYDROELECTRIC PROJECT (FERC NO. 12063)

Dear Sir or Madam:

Notice is hereby given that the proponent of the proposed Little Wood River Ranch II Hydroelectric Project will hold a resource agency meeting and public scoping on Wednesday, December 11, at 5:00 PM at the Lincoln County Extension Office, 115 West A Street, Shoshone, ID. This hearing is for consideration of the following:

- Develop a common understanding of the proposed hydroelectric development at Little Wood River Ranch II;
- Discuss current and potential resource needs and management objectives for the project area;
- Decide what information is needed and what studies are to be done; and
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Regards,

Nicholas E. Josten
(208) 528-6152

cc:
FERC, Washington, DC

Telephone conversation w/ Linda Jones on 7/25/03. She stated that project will require a Conditional Use Permit from Lincoln County.

NES
8/1/03



July 29, 2003

Sonny Buhidar
Idaho Department of Environmental Quality
601 Poleline Road, Suite 2
Twin Falls, ID 83301

Subject: LITTLE WOOD RIVER RANCH II HYDROELECTRIC PROJECT (FERC
No. 12063-000)

Dear Mr. Buhidar:

As authorized agent for William Arkoosh, I am preparing to file an application to the Federal Energy Regulatory Commission for a Minor License for the proposed Little Wood River Ranch II Hydroelectric Project. The application will be filed within the next 30 days.

The purpose of this letter is to serve as the applicant's request for a water quality certification. As an attendee at the Agency Meeting and Public Hearing conducted on December 11, 2002, you are familiar with the expectation that the project will have an overall positive impact on water quality in the Little Wood River. Water quality certification is a FERC requirement prior to licensing and/or construction.

If you have any questions, please contact me at (208) 528-6152

Regards,

Nicholas E. Josten

cc:

Ted Sorenson, Sorenson Engineering
Bill Arkoosh, Gooding, ID

Geophysics
Consulting
and Services



November 20, 2002

Mr. Montie S. Day
38 Steuben Bay
Alameda, CA 94502

Subject: AGENCY MEETING AND PUBLIC SCOPING, LITTLE WOOD RIVER
RANCH II HYDROELECTRIC PROJECT (FERC NO. 12063)

Dear Sir or Madam:

Notice is hereby given that the proponent of the proposed Little Wood River Ranch II Hydroelectric Project will hold a resource agency meeting and public scoping on Wednesday, December 11, at 5:00 PM at the Lincoln County Extension Office, 115 West A Street, Shoshone, ID. This hearing is for consideration of the following:

- Develop a common understanding of the proposed hydroelectric development at Little Wood River Ranch II;
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A written project summary is currently available for copying and inspection at the Lincoln County Clerk's Office, 111 West B Street, Shoshone, ID. You may also request an electronic copy by sending e-mail to gsense@cableone.net.

Regards,

Nicholas E. Josten
(208) 528-6152

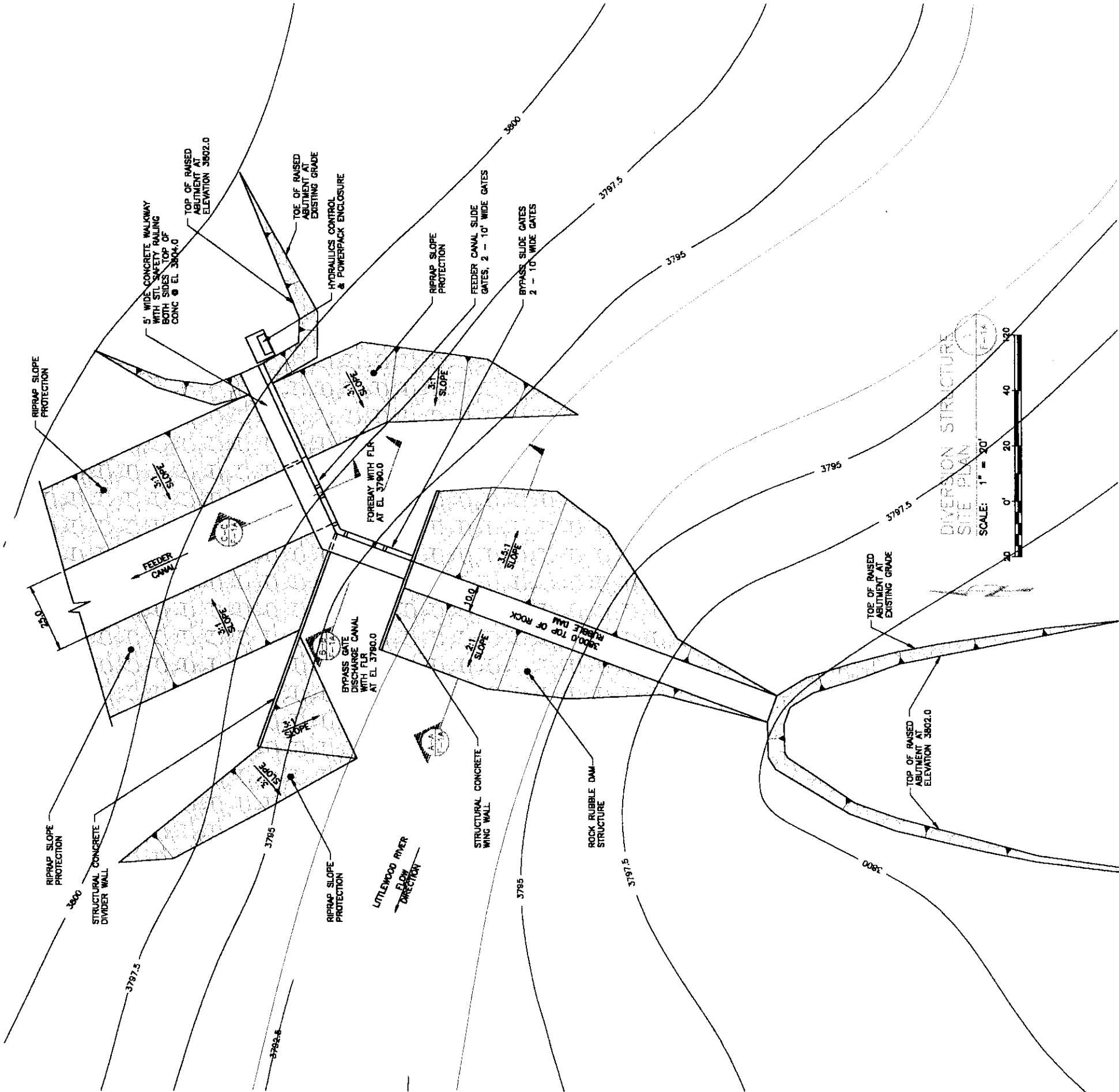
cc:
FERC, Washington, DC

No response received from Mr. Day through July 2003.

N. E. Josten
8/1/03

Geophysics
Consulting
and Services

EXHIBIT F – Project Drawings



SEE EXHIBIT F-1B FOR SECTIONS
A-A, B-B AND C-C

LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT
EXHIBIT F-1A

FERC PROJECT NO. 12063-000
THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF _____, 2003

MR. BILL ARKOOSH
OWNER

GeoSense
2742 ST CHARLES AVE
IDAHO FALLS, ID 83404

EXHIBIT F-1A
DIVERSION SITE PLAN
LITTLEWOOD RIVER NO. 2 HYDROELECTRIC PROJECT

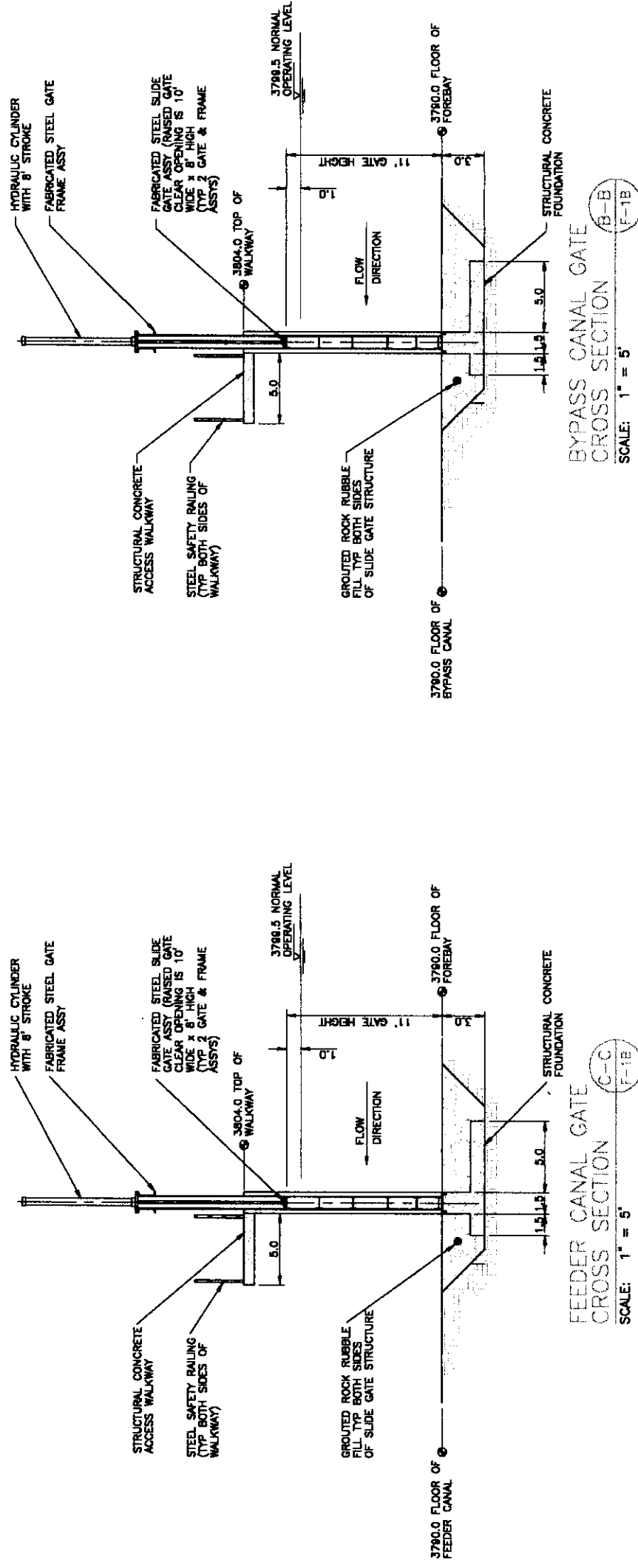
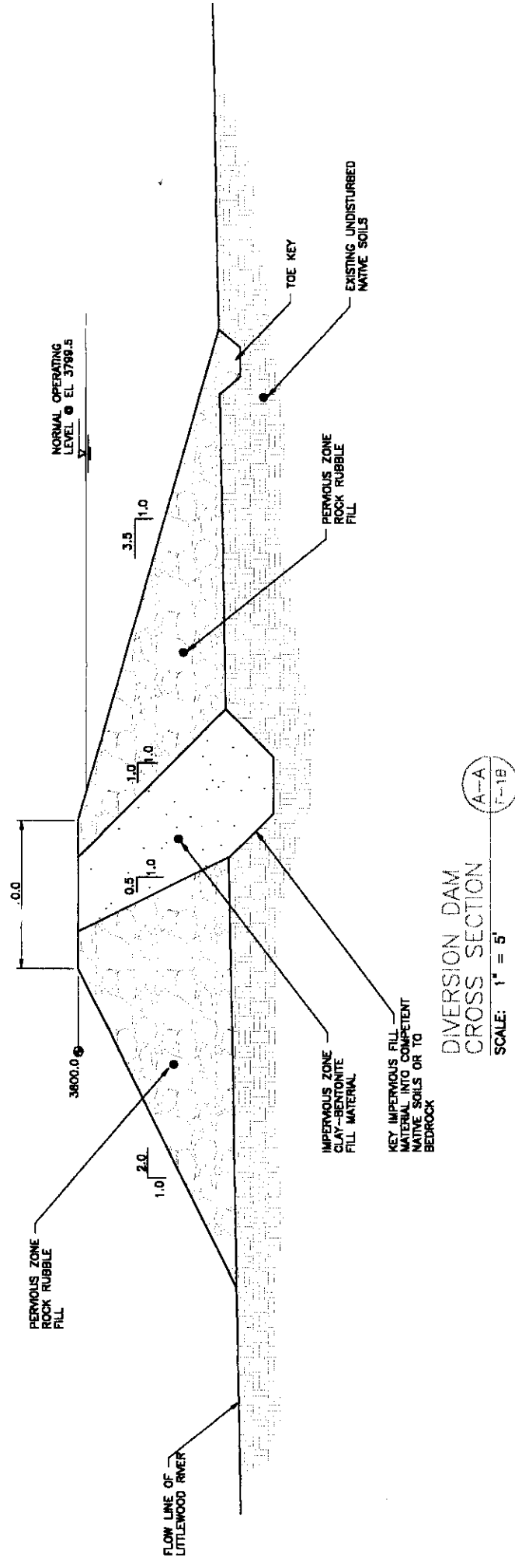
LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT

EXHIBIT F-1B

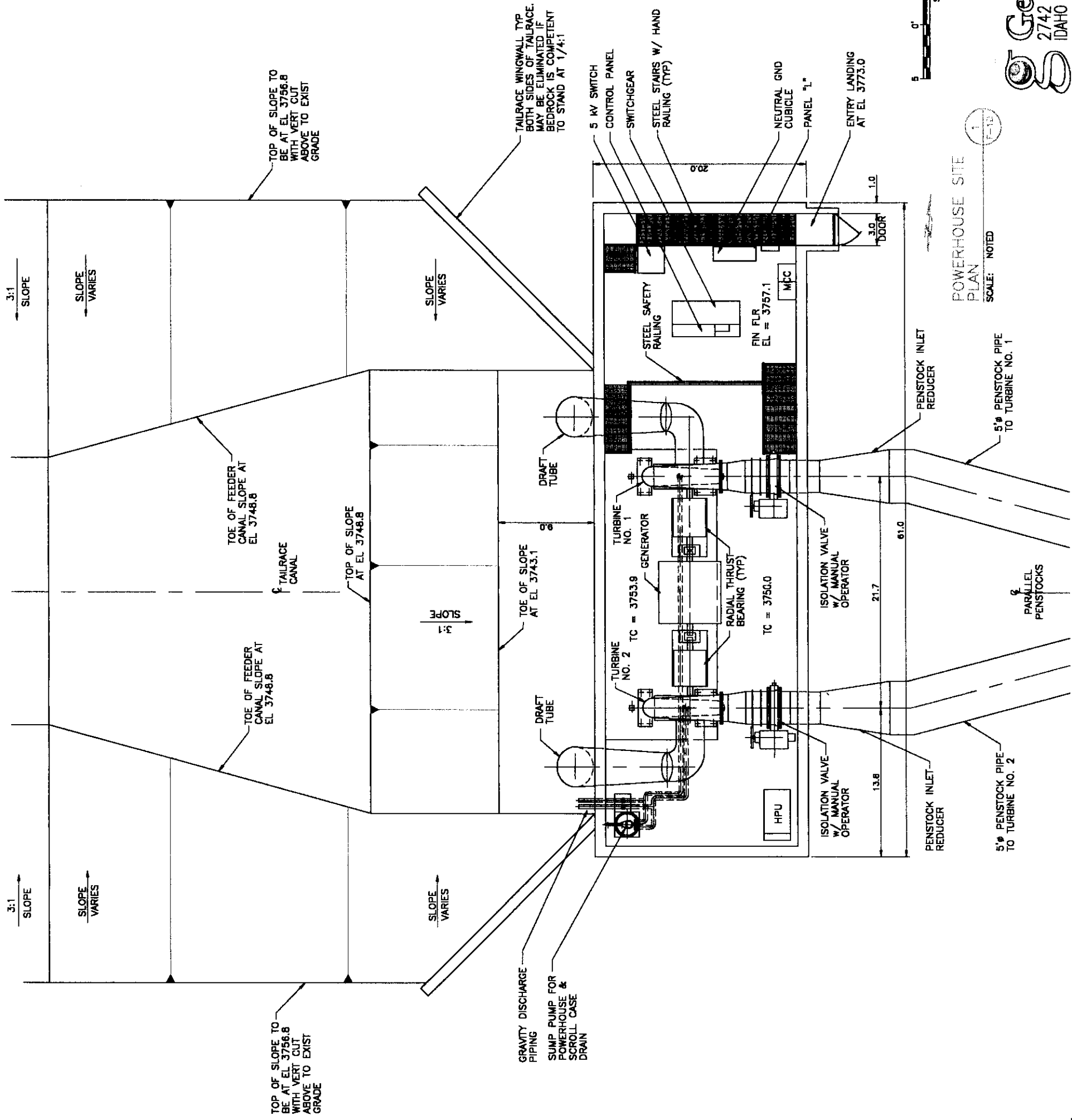
FERC PROJECT NO. 12063-000

THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF
_____, 2003

MR. BILL ARKOOSH
OWNER

GeoSense
2742 ST CHARLES AVE
IDAHO FALLS, ID 83404

EXHIBIT F-1B
DIVERSION STRUCTURE SECTIONS
MUD RIVER NO. 2 HYDROELECTRIC PROJECT



POWERHOUSE SITE
PLAN
SCALE: NOTED
1
F-1D

LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT
EXHIBIT F-1D

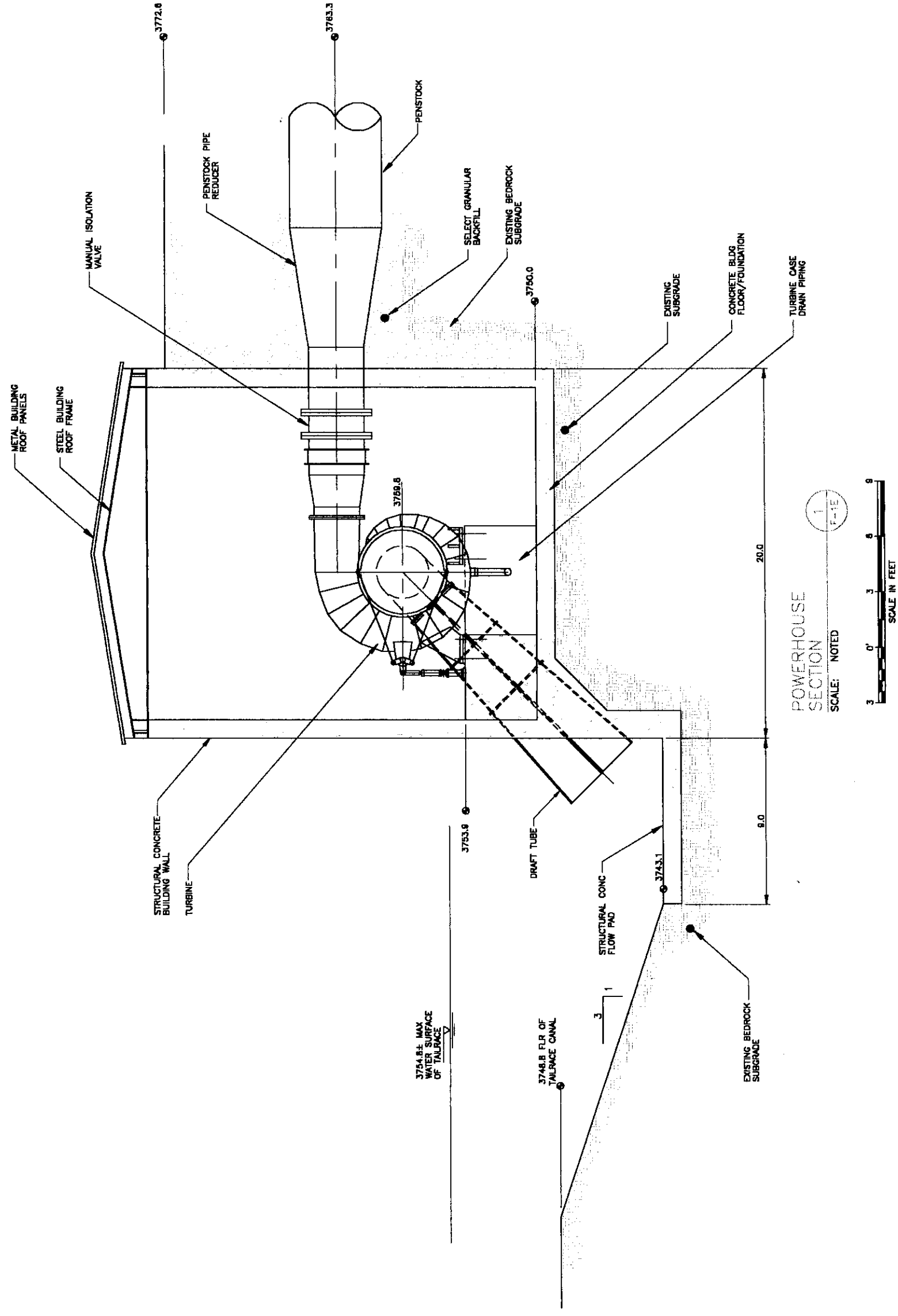
FERC PROJECT NO. 12063-000

THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF _____, 2003

MR. BILL ARKOSH
OWNER

GeoSense
2742 ST CHARLES AVE
IDAHO FALLS, ID 83404

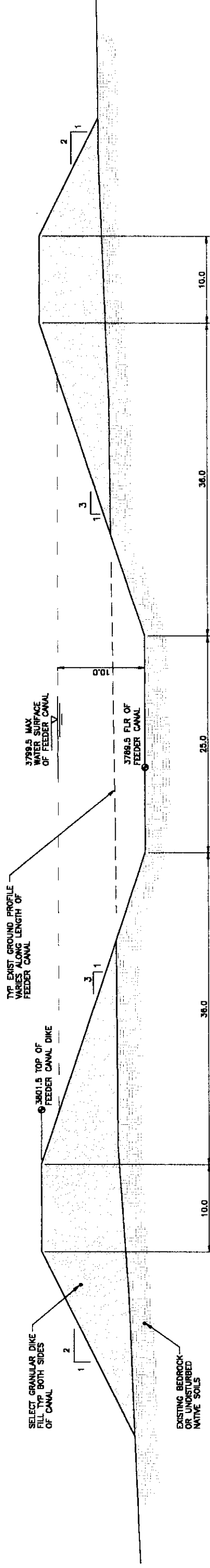
FIGURE F-1D
POWERHOUSE PLAN
LITTLEWOOD RIVER NO. 2 HYDROELECTRIC PROJECT



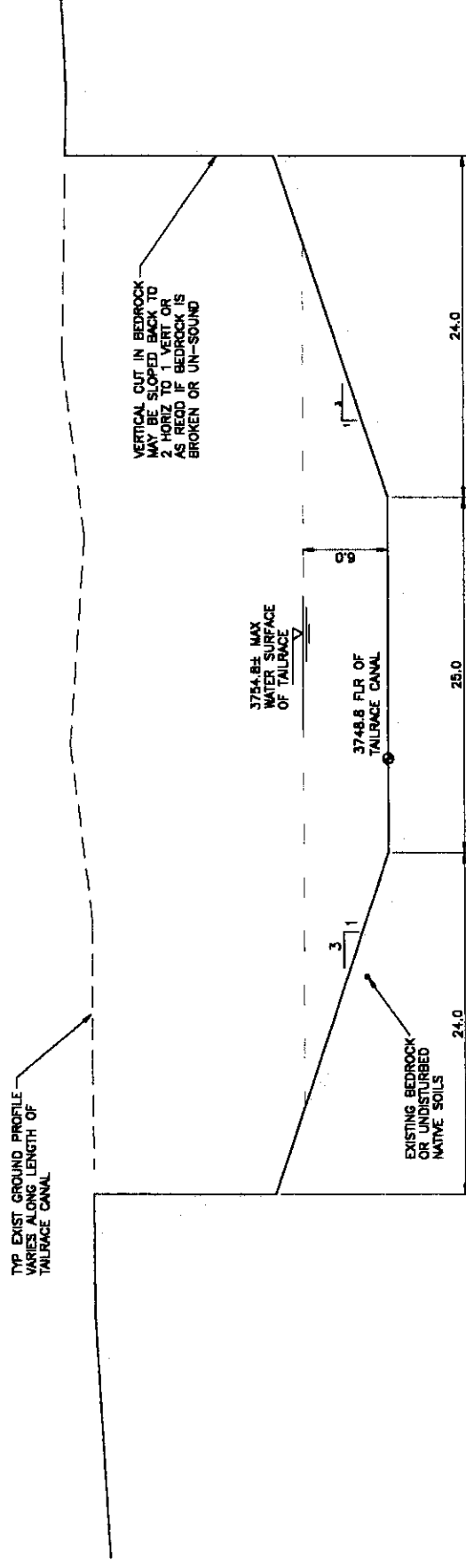
LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT
EXHIBIT F-1E
FERC PROJECT NO. 12063-000
THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF
_____, 2003
MR. BILL ARKGOOSH
OWNER

GeoSense
2742 ST CHARLES AVE
IDAHO FALLS, ID 83404

FIGURE F-1E
POWERHOUSE ELEVATION
LITTLEWOOD RIVER NO. 2 HYDROELECTRIC PROJECT



FEEDER CANAL
CROSS SECTION
SCALE: NOTED
1
F-1F



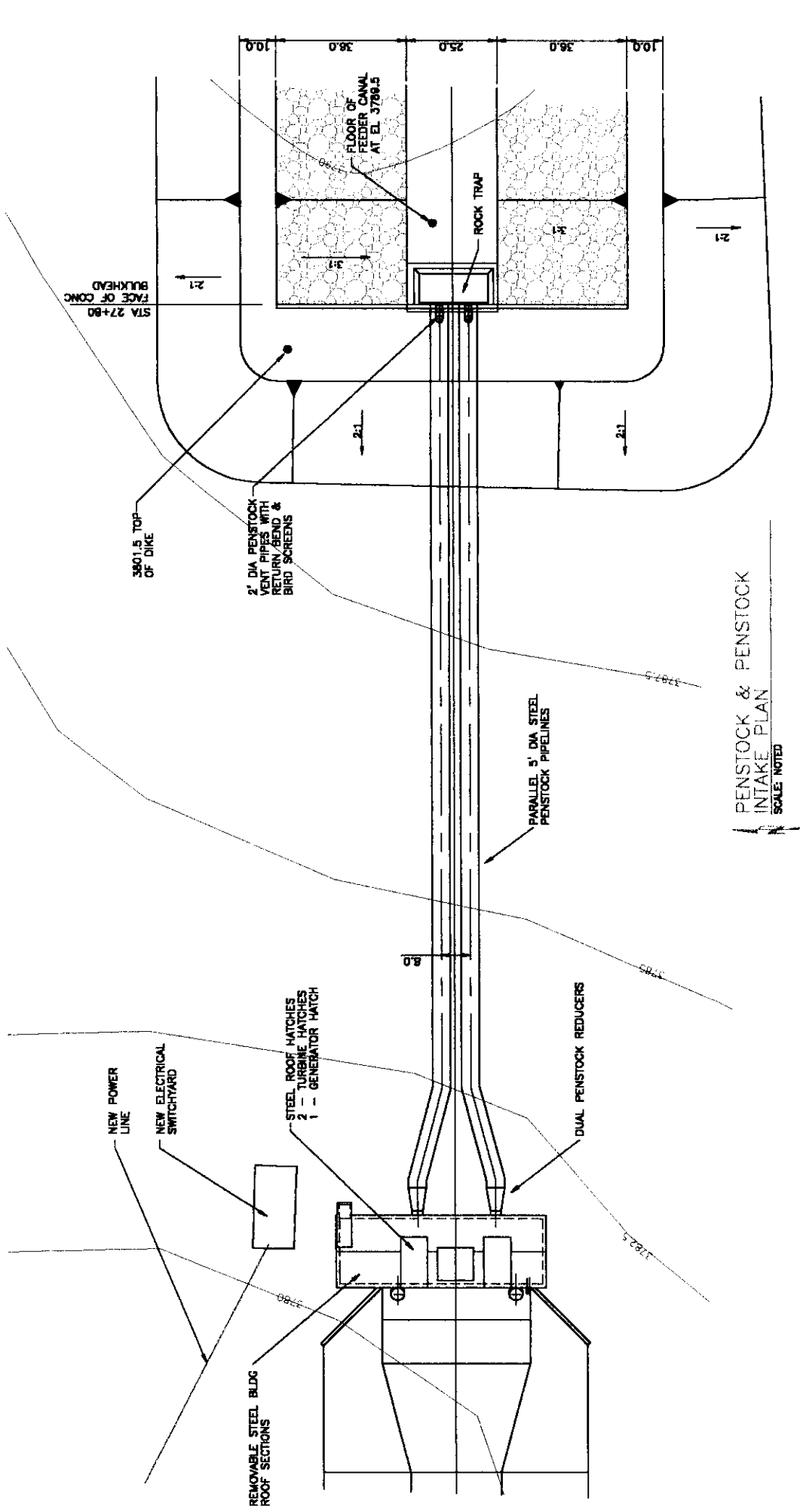
TAILRACE CANAL
CROSS SECTION
SCALE: NOTED
2
F-1F

LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT
EXHIBIT F-1F

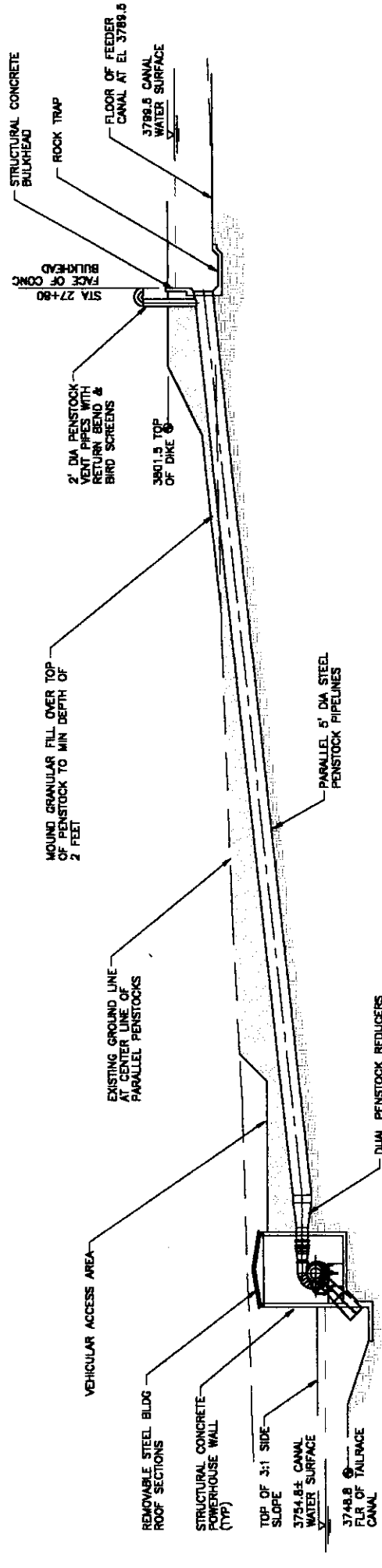
FERC PROJECT NO. 12063-000

THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF _____ 2003

MR. BILL ARKOOSH
OWNER



PENSTOCK & PENSTOCK
INTAKE PLAN
SCALE NOTED



PENSTOCK & PENSTOCK
INTAKE ELEVATION
SCALE NOTED

LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT
EXHIBIT F-1C

FERC PROJECT NO. 12063-000
THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF
_____ 2003

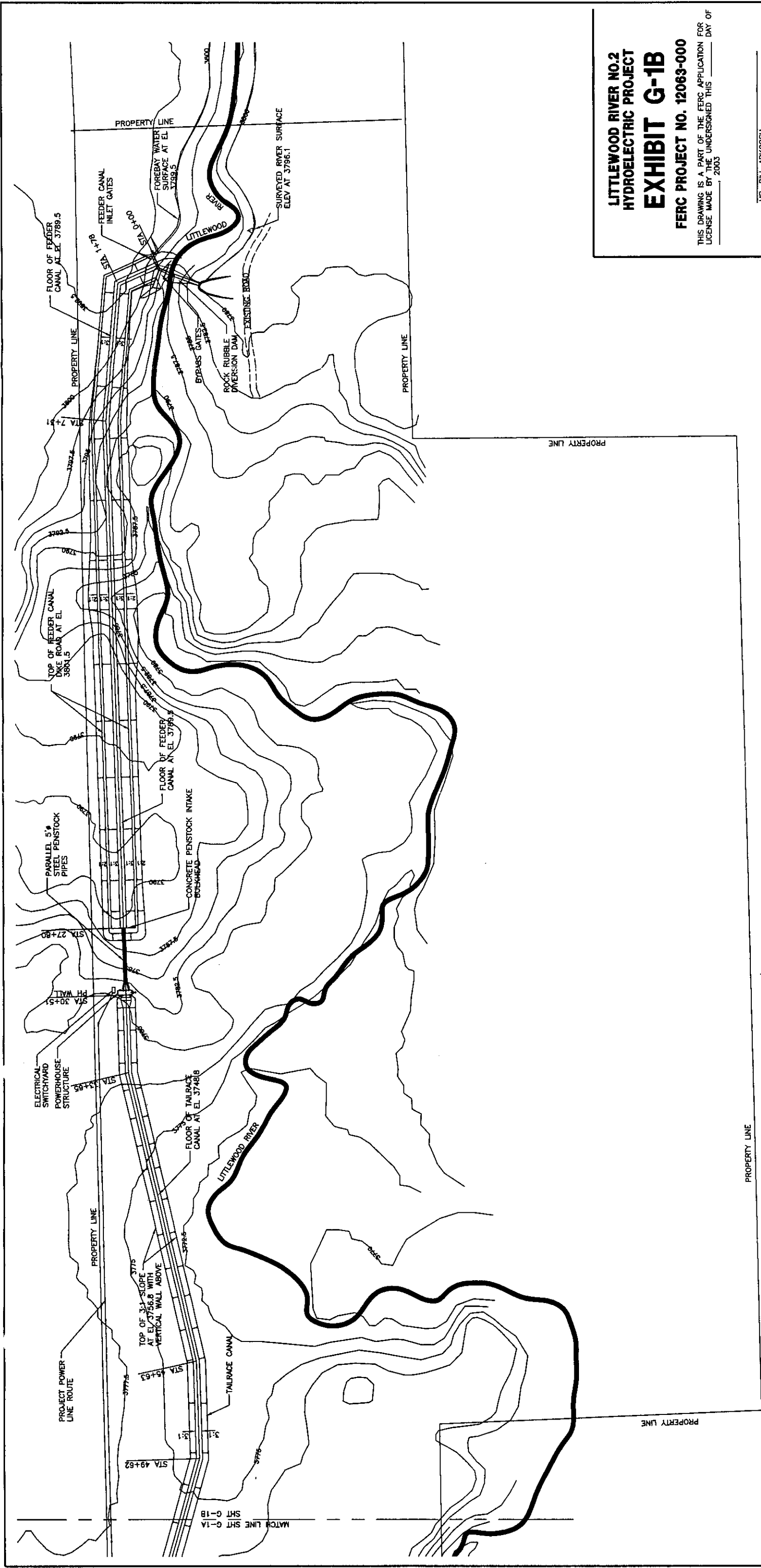
MR. BILL ARKOOSH
OWNER

GeoSense
2742 ST CHARLES AVE
IDAHO FALLS, ID 83404

FIGURE F-1C
PENSTOCK & PENSTOCK INTAKE PLAN & ELEV
LITTLEWOOD RIVER NO. 2 HYDROELECTRIC PROJECT

EXHIBIT G – Project Location Maps

The Little Wood Ranch II Hydropower Project is located six miles west of the town of Shoshone, Idaho, on the Little Wood River. The Project facilities will be located entirely on private land owned and controlled by William Arkoosh.

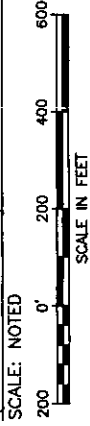


**LITTLEWOOD RIVER NO.2
HYDROELECTRIC PROJECT**
EXHIBIT G-1B
FERC PROJECT NO. 12063-000
THIS DRAWING IS A PART OF THE FERC APPLICATION FOR
LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF
_____, 2003

MR. BILL ARKOOSH
OWNER

NOTE:
ALL PROJECT IMPROVEMENTS ARE
ON THE APPLICANTS(OWNERS) PROPERTY

PROJECT SITE MAP
(EAST HALF)



GeoSense
2742 ST CHARLES AVE
IDAHO FALLS, ID 83404

FIGURE G-1B
PROJECT SITE MAP (EAST HALF)
LITTLEWOOD RIVER NO. 2 HYDROELECTRIC PROJECT

THIS INDENTURE, Made this 16th day of November, in the year of our Lord one thousand nine hundred and Fifty Nine, between George Arkoosh and Bonnie Arkoosh, husband and wife of Gooding County of Gooding State of Idaho, the parties of the first part, and William Faulkner Arkoosh of Gooding County of Gooding State of Idaho, the party of the second part, WITNESSETH, That the said parties of the first part, for and in consideration of the sum of One and NO/100 - - - (\$1.00) and other consideration DOLLARS, lawful money of the United States of America, to them in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, have granted, bargained and sold, and by these presents do grant, bargain, sell, convey and confirm unto the said party of the second part, and to his heirs and assigns forever, all the following described real estate situated in Lincoln County, State of Idaho, to-wit:

All of our right, title and interest (being a 55% interest) in and to the following described real estate:

The Northwest Quarter, the West Half of the Northeast Quarter, and the Northeast Quarter of the Northeast Quarter, Section 26; the North Half of the Northwest Quarter and the North Half of the Northeast Quarter, the Southeast Quarter of the Northwest Quarter, Section 27; the East Half of the Northeast Quarter, the Northwest Quarter of the Northeast Quarter, the Northeast Quarter of the Northwest Quarter, the South Half of the Northwest Quarter, Section 28; the South Half of the Southeast Quarter, Section 21; the Southwest Quarter of the Southwest Quarter, Section 22; All in township 5 South, Range 16 E.B.M. Excluding Taylor Grazing Rights.

\$15.95 I. R. Stamps attached and cancelled.

TOGETHER with all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and all estate, right, title and interest in and to the said property, as well in law as in equity, of the said parties of the first part:

TO HAVE AND TO HOLD All and singular the above mentioned and described premises, together with the appurtenances, unto the party of the second part, and to his heirs and assigns forever. And the said parties of the first part, and their heirs, the said premises in the quiet and peaceable possession of the said party of the second part, his heirs and assigns, against the said parties of the first part, and their heirs, and against all and every person and persons whomsoever, lawfully claiming or to claim the same shall and will WARRANT and by these presents forever DEFEND.

IN WITNESS WHEREOF, The said parties of the first part have hereto set their hands and seal the day and year first above written.

Signed, Sealed and Delivered in the Presence of

George Arkoosh (SEAL)

Bonnie Arkoosh (SEAL)

(SEAL)

(SEAL)

STATE OF IDAHO }
County of Gooding } ss.

On this 16th day of November, in the year 1959, before me the undersigned, a Notary Public, in and for said County, personally appeared George Arkoosh and Bonnie Arkoosh known to me to be the person whose name subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

Chas. C. Shaw

(N. P. Seal affixed.)

Notary Public in and for
the State of Idaho
residing at Gooding

My commission expires 10/12/60

Recorded at request of William F. Arkoosh at 8:55 o'clock A.M., this 19th day of November, 1959

By Freda Oyer

Deputy.

Luella L. Kinsey

County Recorder.

Fees, \$ 1.50