UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND - REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

Request for General Permit Authorization to Discharge Wastewater (Notice of Intent (NOI) to be covered by the General Permit)

Hydroelectric Generating Facilities (HYDROGP) NPDES General Permits No. MAG360000 and NHG360000

A. Facility Information

1. Indicate applicable General Permit for discharge: MAG360000 ____
NHG360000 x

2. Facility Name, Location, and Data:
Name Errol Hydro
Street/POBox 491 Errol Dam Rd. City Errol
State NH Zip Code 03579
Latitude 44°47'10.73"N Longitude 71° 7'26.46"W
Type of Business Hydroelectric generating station
SIC Code(s) 4911

3. Facility Mailing Address (if different from Location Address):
Name Errol Hydro c/o GLHA
Street/PO Box 972 Main St. City Berlin
State NH Zip Code 03570

4. Facility Owner:
dennis.turcotte@brookfieldpower.com
or clare.kirk@brookfieldpower.com
Name Errol Hydroelectric Co. LLC e-mail (optional)
Street/PO Box 972 Main St. City Berlin
State NH Zip Code 03570
Contact Person Dennis Turcotte Telephone Number 603-752-2353, x14
Owner is (check one): 1. Federal____ 2. State _____ 3. Tribal_____ 4. Private x
Other (Describe)_____

5. Facility Operator (if different from above):
Legal Name_____ e-mail (optional) _____
Street/PO Box_____ City_____
State_____ Zip Code_____
Contact Person_____ Telephone Number_____

6. Current permit status (please check Yes or No):
a. Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI? Yes x No____ If Yes, Permit Number: NHG250449
b. Is the facility covered by an individual NPDES permit? Yes_____ No x
If Yes, Permit Number _____
c. Is there a pending NPDES application on file with EPA for this discharge? Yes x No _____ If Yes, date of submittal: 10/29/99 and permit number if available: NH 023370

Err 1/4

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? Yes See Attachment A

8. Provide the number of turbines and the combined turbine discharge (installed capacity) at maximum and minimum output, in cubic feet per second (cfs). Number of turbines 1 Combined turbine discharge (installed capacity): maximum output, cfs 2,600 and minimum output, cfs 800 (est.)

9. Is the hydroelectric generating facility operated as a pump storage project? NO

B. Discharge Information (attach additional sheets as needed).

1. Name of receiving water into which discharge will occur: Androscoggin River
   Freshwater: X Marine Water: _____

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing flow, treatment units, outfalls, and receiving waters(s). Line drawing or flow schematic attached? Yes See Attachments B1 & B2

3. List each outfall under the following categories and number sequentially: equipment-related cooling water; equipment and floor drain water; maintenance-related water; facility maintenance-related water during flood/high water events, and equipment-related backwash strainer water (see Parts I.A.1, 2, 3, and 4; or Parts I.B.1, 2, 3, and 4). Attach additional sheets to identify outfalls as needed.

Equipment-related cooling water

#17 - NCCW; oil detector alarm will shut-off pump if oil is detected; 12,236 GPD avg.

Equipment and floor drain water

Maintenance-related water

#17A - Station dewatering discharge - used only for dewatered inspections (3-5 yrs)

Facility maintenance-related water during flood/high water events

Equipment-related backwash strainer water

4. List each outfall discharging any combination of the following to identify the combined discharges: equipment-related cooling water, equipment and floor drain water, maintenance-related water, equipment-related backwash strainer water, and facility maintenance-related water during flood/high water events (see Parts I.A.5 and B.5) and continue the sequential numbering. Attach additional sheets to identify outfalls as needed.

5. Provide for each outfall the following:

a. Latitude and longitude to the nearest second (see EPA's siting tool at: http://www.epa.gov/tri/report/siting_tool/) and the name(s) of the receiving water(s) into which the discharge will occur.

44°47'9.93"N/71° 7'27.63"W - Androscoggin River

b. The operations contributing flow and the treatment received by the discharge. Indicate the average flow from each operation. See answers provided ~~in #4~~ (above).

c. Indicate if the discharge can be sampled at least once per year or can be sampled using the representative outfall sampling provisions (see Parts I.A.6 or B.6 and III.E). Yes, discharge can be sampled.

d. Note if the outfall discharges intermittently or seasonally.

17A is only used once every 3-5 years.

C. Chemical Additives

Are any non-toxic neutralization chemicals used in the discharge(s)? Yes ____ No x ____ If so, include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC_{50} in percent for typically acceptable aquatic organism).

D. Endangered Species Act Eligibility Information

A facility, with a previous ESA Section 7 consultation with the National Marine Fisheries Service (NMFS), seeking coverage under the Massachusetts general permit and discharging to the Connecticut River or Merrimack River should provide one of the following, if available. N/A

1. A formal certification indicating consultation with the National Marine Fisheries Service (NMFS) resulted in either a no jeopardy opinion or a written concurrence on a finding that the discharges are not likely to adversely affect the shortnose sturgeon or critical habitat. Information should also be provided indicating the hydroelectric facility's previous ESA Section 7 consultation with NMFS covered the discharges to be authorized under this general permit and demonstrating no significant changes in the discharges have occurred since the previous consultation.

2. Another operator's certificate of the ESA eligibility for those discharges to be authorized under this general permit.

E. Supplemental Information

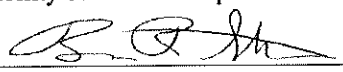
Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any certification(s) required by the general permit.

F. Signature Requirements

The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that no chemical additives are used in the discharges to be authorized under this general permit except for those used for pH adjustment and (2) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

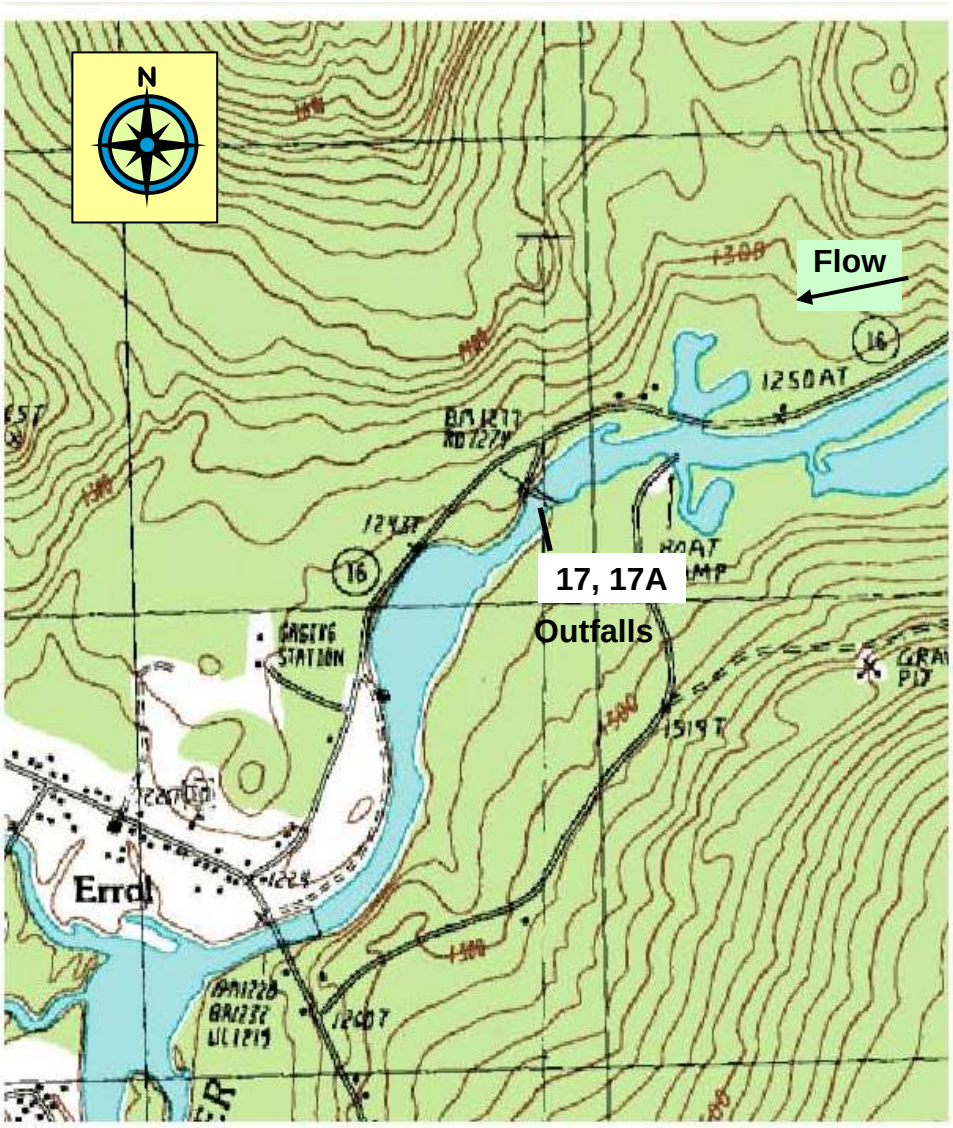
Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  Date 3/19/10

Printed Name and Title Brian Stetson, General Manager, New England

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



Center: 44.7852°N 71.1263°W
Elevation at center: 1,243 feet (379 meters)
Quad: USGS Errol
Drg Name: o44071g2
Drg Source Scale: 1:24,000

Note: Outfalls are located immediately downstream of facility

ERROL HYDRO

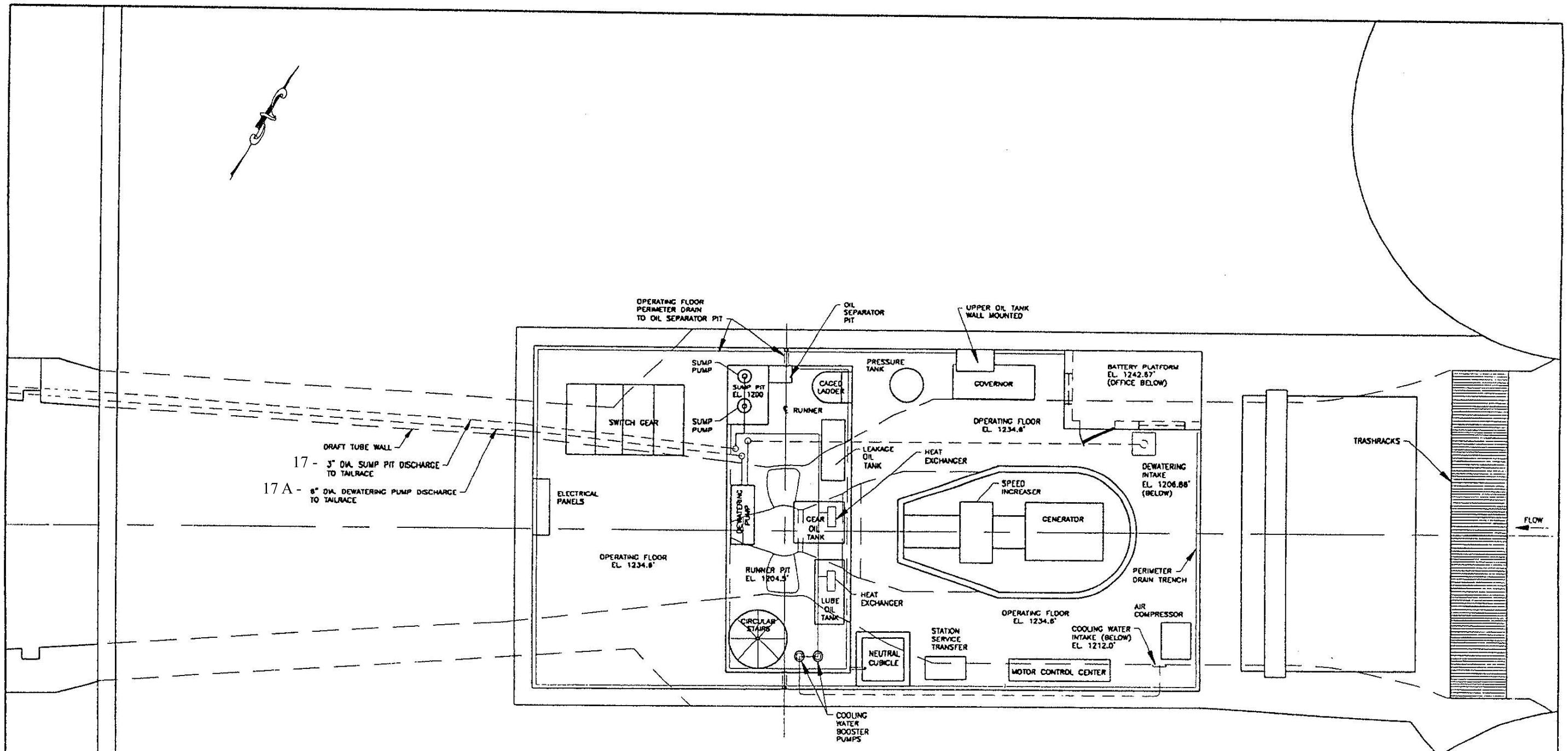
TOPOGRAPHIC MAP
ANDROSCOGGIN RIVER, NH

MARCH 2010

Brookfield

Brookfield Renewable Power Inc.
Errol Hydroelectric Co. LLC
972 Main Street
Berlin, NH 03570

Tel 603.752.2353
Fax 603.752.3665
www.brookfieldpower.com



NOTE:
1. ALL WATER SUPPLIED FROM RIVER.

ATTACHMENT B1
Errol Hydroelectric Co. LLC
972 Main St.
Berlin, NH 03572

Date	Chkd.	Revision
Drawn by: HWF		Date: 12-7-99
Designed by:		Date:
Checked by:		Date:
Scale: NOT TO SCALE		

POWERHOUSE PLAN

January 2010

Kleinschmidt Associates
Consulting Engineers and Scientists
Pittsfield, Maine

SECTION 1
Sht. 1 of 1
212-014

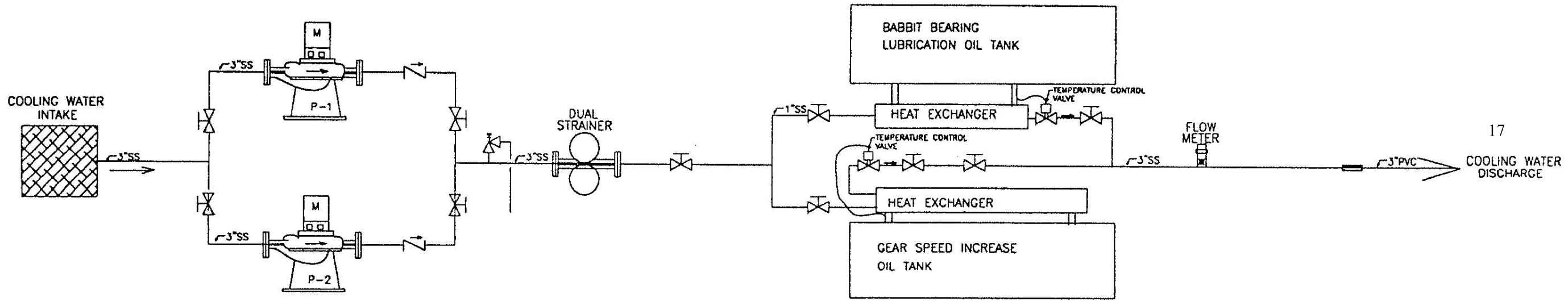


DIAGRAM--EXISTING COOLING WATER PIPING TO THE LUBE OIL AND GEAR OIL HEAT EXCHANGERS

Date	Chkd.	Revision

Drawn by: HWF Date: 12-7-99
Designed by: _____ Date: _____
Checked by: _____ Date: _____
Scale: NOT TO SCALE

ATTACHMENT B2

Errol Hydroelectric Co. LLC
972 Main St.
Berlin, NH 03572

FLOW SCHEMATIC

January 2010

Kleinschmidt Associates
Consulting Engineers
and Scientists
Pittsfield, Maine

SECTION 3
Sht. 1 of 1
212-014