

# American Energy Insurance Services

## Hydroelectric Project Insurance Application

**Named Insured:**

**Date:**

**Mailing Address:**

**Primary Contact:**

**Phone:**

**Fax:**

**Project Location:**

**Project Name:**

**FERC#:**

**RIVER:**

**COUNTY:**

**BOILER & MACHINERY**

**TOTAL VALUE:**

**BUSINESS INTERRUPTION**

**TOTAL VALUE:**

**PROPERTY**

**TOTAL VALUE:**

**PROPERTY / BUS. INTERRUPT / BOILER**

**POLICY LIMIT:**

**BUSINESS INTERRUPTION**

**POLICY LIMIT:**

**PROPERTY**

**PREFERRED DEDUCTIBLE:**



**Turbine Pit & Tailrace:**

**Concrete** ( ) **Steel** ( )

**Frame** ( ) **Block** ( )

**Year Built**

**Fire Protection** (Describe) Fire extinguishers,

**Total Cost to Replace:**

**CIVIL WORKS**

Description of original structure:

Description of new work done:

**Total Cost to Replace** Old/New Civil Works:

**TURBINE(s)**

Turbine “Design” legends: Francis (F), Kaplan (K), Full Kaplan (FK) Pelton (P) and Pit Turbine (PT)

**Manufacturer(s):**

**Units** #1 #2 #3 #4

**RPM**

### **Turbine Protective Monitoring**

Fail Safe Governor Mechanism “FSGM”, stops water flow to turbine if governor drive fails. Answer legend: Yes (Y), No (N) and Not Available (NA)

<b>Units</b>	<b>#1</b>	<b>#2</b>	<b>#3</b>	<b>#4</b>
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**FSGM**

### **OVERSPEED TRIP**

Bearing Oil (low) Pressure Trip, positive pressure system “BOPT”

**BOPT**

Bearing Oil (high) Temperature Trip “BOTT”

**BOTT**

Oil Reservoir (low level) Alarm “ORA”

**ORA**

Manual Shutdown Trip “MST”

**MST**

Remote Trouble Indicator Alarm “RTIA”

**RTIA**

## **GENERATORS**

Generator type specify Synchronous “S” or Induction “I”

**Manufacturer(s)**

<b>Units</b>	<b>#1</b>	<b>#2</b>	<b>#3</b>	<b>#4</b>
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**DDM**

## Recommended Generator Protective Sensors

Answer legend: Yes (Y), No (N) and Not Available (NA)

<b>Units</b>	<b>#1</b>	<b>#2</b>	<b>#3</b>	<b>#4</b>
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Lightning Arrestor/Surge Capacitors installed at generator terminals “LA/SC”  
**LA/SC**

Neutral Ground Trip “NGT”  
**NGT**

Neutral Switch Trip “NST”  
**NST**

Generator Differential relays Trip “GDT”  
**GDT**

<b>Units</b>	<b>#1</b>	<b>#2</b>	<b>#3</b>	<b>#4</b>
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Generator Differential Lockout relays Trip “GDLT”  
**GDLT**

Over/Under Voltage relay Trip “OUVT”  
**OUVT**

Over/Under Frequency relay Trip “OUFT”  
**OUFT**

Ground Over-current relay Trip “GOT”  
**GOT**

Over-current relay Trip “OT”

Stator Winding Temperature Alarm “SWTA”  
**SWTA**

Field Winding Temperature Alarm “FWTA”  
**FWTA**

Bearing Oil high Temperature Alarm “BOTA”  
**BOTA**

**Information required on generators 3000Kw and above.**

Time required to repair or replace stated number of Days “D” stated number of Months “M”

<b>Units</b>	<b>#1</b>	<b>#2</b>	<b>#3</b>	<b>#4</b>
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**Turbine**

**Generator**

**SWITCHGEAR**

**Manufacturer(s)**

**Year Built:**

**Cost to Replace:**

**COMPUTERS**

Is there a computer in the powerhouse?

Cost to Replace Hardware

Cost to Replace Software

## **Recommended Transformer Protective Sensors**

Answer legend: Yes (Y), No (N) and Not Available (NA)

<b>Units</b>	<b>#1</b>	<b>#2</b>	<b>#3</b>	<b>#4</b>
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Lightning Arrestor installed "LA"y  
**LA**

Over-current relays Trip "OT"y  
**OT**

Differential relays Trip "DT"y  
**DT**

Differential Lockout relays Trip "DLT"y  
**DLT**

Sudden Pressure relay Trip "SPT"y  
**SPT**

### **Oil cooled units**

High Oil Temperature Alarm "HOTA"y  
**HOTA**

Low Oil Level Alarm "LOLA"y  
**LOLA**

## **TRASH RACKS**

**Size (sq. ft.):**

**Trash rack material:**

**Year Installed:**

**If not new have they been rebuilt?**

**Storage(acre feet):**

**Last Inspection:**

**By whom:**

**Corps of Engineers Hazard Classification:**

**Describe periodic inspection program:**

**Cost to replace dam or diversion (if coverage is desired):**

**Penstock Material:**

**Length:**

**Diameter:**

**Cost to replace Penstock:**

## **TRANSMISSION LINE**

**Are transmission lines to be insured?**

**Length:**

**Replacement Cost:**

## **BUSINESS INTERRUPTION**

**Expected annual Kwh:**

**Expected annual revenue:**

**Expected annual expenses:**

## **FLOOD INFORMATION**

**Was the project powerhouse designed above the 100 year flood plain?**



**What limit of liability do you wish?**

**Is the site accessible to the public?**

**Is the perimeter fenced?**

**Is the transformer fenced and locked?**

**Or is there a pad mounted, locked metal container?**

**Are there any bathing and/or boating facilities?**

**If yes, what control does the maintain?**

**What responsibility?**

**What is downstream from the dam and how far from the dam is it?**

**How often is the site visited by the plant operator?**

**Name and phone number of the plant operator:**

**How far is the project from the nearest town?**

**How far is the project from the nearest improved road?**

**Is the project on private land?**

**Are warning signs posted?**

**Has the electric generating equipment been tested for electromagnetic field radiation levels?**

**If not, do you plan to test for EMF?**

**Where is the utility substation located?    on premises                    off premises?**

**Design engineer:**

**Name:**

**Location:**

**Contact:**

**Phone:**

**May we contact engineers or suppliers to obtain further information?**

**Please attach the following information:**

- 1) Single line electrical drawings
- 2) Layout drawings (plan & profile)
- 3) **Very important:** \_\_a photograph of as many parts of the project as possible. (These will be returned if you wish)

**Signature and title of the party signing this application**