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**GREEN HYDROPOWER INC.**  
2513 North Shirley Street  
Ruston, WA 98407

2007 MAY 11 P 2:39

FEDERAL ENERGY REGULATORY COMMISSION

**Joseph Allan Francis**  
President

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Fax: 253-752-2792

greenhydropower@yahoo.com

May 9, 2007

Honorable Magalie Salas  
Secretary  
Federal Energy Regulatory Commission  
888 First Street, NE, Room 1-A  
Washington, DC 20426

P-12800-000

**Re: Preliminary Permit Application (Santa Monica Bay, California / Death Valley National Park, California) Tidal Hydropower and Evaporation Project.**

Dear Ms. Salas:

On behalf of Green Hydropower Inc. of Washington State, I would like to submit for filing an original and eight copies of Green Hydropower Inc. Application for Preliminary Permit for the (Santa Monica Bay, California / Death Valley National Park, California) Tidal Hydropower Project.

Green Hydropower Inc. in an effort to produce renewable hydroelectric energy within the Los Angeles, California area is proposing a tidal hydropower project that has potential to also produce a fresh water resource by means of large scale evaporation and precipitation. Not only will this project produce tidal hydropower, it will also provide a freshwater resource to help replenish the drought stricken surrounding Colorado River Basin States water supplies, further enabling the production of power at existing hydroelectric plants.

Although this project contains inherently controversial subjects, I feel it merits the further research and studies that could be brought about by a FERC Preliminary Permit. In light of the future fresh water crisis looming over California and the surrounding States.

Thank you for your time and consideration.



**PRELIMINARY PERMIT APPLICATION FOR (SANTA MONICA BAY,  
CALIFORNIA / DEATH VALLEY NATIONAL PARK, CALIFORNIA) TIDAL  
HYDROPOWER AND EVAPORATION PROJECT.**

**INITIAL STATEMENT**

**1. Statement of Application**

Green Hydropower Inc. applies to the Federal Energy Regulatory Commission for a Preliminary Permit for the proposed (Santa Monica Bay, California / Death Valley National Park, California) tidal hydropower and evaporation project as described in the following exhibits 1-4. The proposed project will study the feasibility and effects upon the marine environment, land based environment, Public, Tribal, State, National Park and Federal interest regarding the researching and studying of a below sea level tunnel that will begin in Santa Monica Bay, California and end in Death Valley National Park, California. The tunnel will consist of an underground tidal hydropower plant located in and or around the greater Los Angeles, California area. The water will then be conveyed by gravity to Death Valley National Park, California creating a below sea level reservoir that will evaporate from the high temperatures and arid atmosphere found in Death Valley National Park causing additional rainfall that will add to the freshwater resources of the drought stricken surrounding Colorado River Basin States. Development of geothermal projects may also exist along the route of the saltwater conveyance tunnel. This Application is made in order that the applicant, Green Hydropower Inc. may secure and maintain priority of application for a license for the project under Part 1 of the Federal Power Act while researching and studying the potential feasibility and effects of the project to support an application for a License.

**2. Project Location**

This proposed project covers a very large and extensive area, most of which will be in the form of a saltwater conveyance tunnel approximately 180 miles in length. The projects exact location will best be determined through future research and studies. The approximate location of the beginning of the conveyance tunnel will be Santa Monica Bay, California. The approximate location of the end of the conveyance tunnel will be Death Valley National Park, California. The approximate location of the proposed underground tidal hydropower facility will be the Los Angeles, California area. The route, depth, diameter, length, and make up of the proposed conveyance tunnel will best be determined by further research and studies.

Santa Monica Bay is an arm of the Pacific Ocean in Southern California. Its boundaries are considered to be the part of the Pacific within an imaginary line drawn between Point Dume, in Malibu, and the Palos Verdes Peninsula. Its Eastern shore forms the Western boundary of the Los Angeles Westside and South Bay regions. The greater Los Angeles Metropolitan areas population is ranked 2<sup>nd</sup> in the U.S. at nearly 13 million people.

Death Valley National Park is approximately 180-miles northeast of Santa Monica Bay. The Mojave Desert encompasses the majority of the 180-mile distance. Death Valley National Park is located on the eastern border of south-central California and includes a small area of Nevada. Running more than 50 miles southwest-to-northeast and more than 150 miles northwest-to-southeast, it is the largest national park in the contiguous U.S. Ecologically, its plants and animals are representative of the Mojave Desert; geologists consider it to be located in the southeastern Great Basin Desert. Death Valley itself is a large desert trough nearly surrounded by mountains. It is nestled between the Amargosa Range on the east, which includes the Black, the Funeral and the Grapevine Mountains, and the Panamint Range on the west, which includes the Cottonwood Mountains. The Owlshhead Mountains rise at the south end of the park and the Sylvania Mountains border the northern end. It contains the lowest point in the western hemisphere, 282 feet below sea level near Badwater, containing 550 square miles below sea level, as well as numerous high-rising mountain peaks, including Telescope Peak at over 11,000 feet.

Death Valley is generally sunny, dry and clear throughout the year. The winters are mild with occasional winter storms, but summers are extremely hot and dry. In fact, Death Valley is one of the hottest places on earth, attaining the highest temperature ever recorded in the U.S., 134 degrees F. on July 10, 1913. Summer high temperatures commonly run above 120 degrees F.

Most rainfall is blocked by the Sierra Nevada Mountains to the west, accounting for Death Valley's extreme aridity. In fact, Death Valley averages less than 2 inches of rainfall a year. For a recent 50-year period, the average annual rainfall at Furnace Creek was only 1.66 inches. But high temperatures and low humidity account for an extremely high evaporation rate. In fact, in Death Valley, the evaporation rate is 128 inches annually, 77 times the precipitation rate.

**3. Name, address and telephone number of applicant and acting agent.**

Green Hydropower Inc.  
Joseph Allan Francis  
President and Chief Executive Officer  
2513 North Shirley Street  
Ruston, WA 98407  
253-732-6532

**4. Preference under section 7(a) of the Federal Power Act**

Green Hydropower Inc. is a Washington State Domestic Profit Corporation and is not claiming preference under section 7(a) of the Federal Power Act.

**5. Term of Preliminary Permit**

**The proposed term of the requested Preliminary Permit is for the timeframe of 36 months.**

**6. Existing Dams or other Project Facilities**

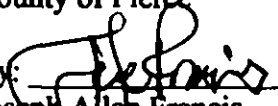
**There are no known dams or other hydropower project facilities within the proposed project locations.**

**STATEMENT OF VERIFICATION**

This application for Preliminary Permit pursuant to 18 C.F.R. Section 4.32 and 18 C.F.R. Section 4.81 is executed in the

State of Washington

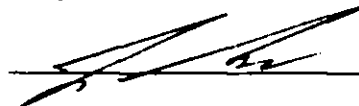
County of Pierce

By:   
Joseph Allan Francis  
President & Chief Executive Officer  
Green Hydropower Inc.  
2513 North Shirley Street  
Ruston, WA 98407

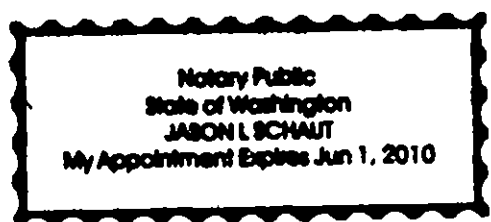
Joseph Allan Francis being duly sworn deposes and says that the contents of this Application for Preliminary Permit and Exhibits are true to the best of his knowledge and belief. The undersigned has signed this Application for Preliminary Permit this 9th day of May 2007.

By:   
Joseph Allan Francis

Subscribed and sworn to before me, a Notary Public authorized by the State of Washington to notarize documents, in the State of Washington this 9th day of May 2007.

By: 

SEAL:



## **EXHIBIT 1. PROJECT DESCRIPTION**

### **1. Characterization of Project**

**Green Hydropower's proposed (Santa Monica Bay, California / Death Valley National Park, California) tidal hydropower and evaporation project is a very large and extensive project. This project will provide renewable hydroelectric power for the greater Los Angeles area from an underground tidal hydroelectric plant located within the greater Los Angeles area. The ability to provide electrical power from within the greater Los Angeles area will eliminate the need for extensive transmission facilities.**

**The below sea level conveyance tunnel will begin within Santa Monica Bay, California. The conveyance tunnel will travel northeast in direction until ending in Death Valley National Park, California. The conveyance tunnel will be routed through the greater Los Angeles area at a depth below sea level. Before passing through the underground tidal hydroelectric plant the conveyance tunnel will drop to far below sea level allowing for maximum head pressure to be produced. The remainder of the gravity conveyance tunnel will continue until reaching Death Valley National Park, California.**

**Upon reaching the below sea level areas of Death Valley National Park, California, the conveyed saltwater from Santa Monica Bay, California will collect into a reservoir that will encompass the high temperature low humidity below sea level areas of Death Valley National Park. This reservoir will be used as a natural evaporation source to create additional precipitation that will add to the freshwater resources for the much needed and drought stricken surrounding Colorado River Basin States.**

### **2. Estimates of Energy and Capacity**

**The estimates of energy and capacity will depend upon the overall length of the conveyance tunnel before and after the location of the underground tidal hydropower plant within the greater Los Angeles area, also the diameter and construction requirements of the conveyance tunnel before and after the underground tidal hydropower plant. These factors along with the predictable flooding and ebbing of the Santa Monica Bay, California tidal waters will determine the given energy and capacity that will be produced by this tidal hydropower project. These estimates will be better determined by further research and studies.**

### **3. Effected United States Lands.**

**The proposed tidal hydropower and evaporation project will affect the identified United States Lands of Death Valley National Park, California.**

#### **4. Public Interest in Developing Water Resource**

**By applying for the Preliminary Permit for this tidal hydropower project further research and studies will then be able to be performed to determine the extent of advantages and disadvantages that will be brought about by this project.**

**A potential advantage is a source of clean renewable energy produced directly within the greater Los Angeles Metropolitan area.**

**Another potential advantage is the continual evaporation of the Death Valley National Park saltwater reservoir producing precipitation that will add to the freshwater resources of the severely drought stricken Colorado River Basin States surrounding Death Valley National Park. This additional fresh water resource will further enable the production of clean hydroelectric power to be produced by existing hydropower facilities.**

**Another potential advantage would be the recycling of hundreds of millions of gallons a day of treated fresh wastewater being routed through the conveyance tunnel rather than being pumped into the Pacific Ocean.**

**Another potential advantage is a source of conveyed saltwater for desalinization plants located near the saltwater reservoirs surrounding areas and or route of the saltwater conveyance tunnel. Development of geothermal projects may also exist along the route of the saltwater conveyance tunnel.**

**An obvious potential disadvantage will be the changing landscape of Death Valley National Park back to its original roots of once being a lake. This public interest will need to be weighed against the serious future need for new resources of fresh water.**

## **EXHIBIT 2. PROJECT RESEARCH AND STUDIES**

### **1. Description of Project Research and Studies**

**This project covers a large area above and below land. The associated research and studies will be very extensive. A complete list of research and studies will be provided after hearing and considering the facts and opinions of all effected parties.**

**This project consists of three major geographical areas that will need to be researched and studied. The first being Santa Monica Bay, California and how the diversion of saltwater and potentially treated fresh wastewater will effect this marine environment.**

**The second geographical area will be those areas effected by the route of the below sea level saltwater conveyance tunnel. The obvious research and studies will be seismic, geothermal, water table, environmental and conveyance tunnel feasibility.**

**The third geographical area will be the below sea level areas consisting of approximately 550 square miles encompassed within Death Valley National Park, California. This geographical area is located within the largest National Park in the contiguous United States. Extensive research and studies will need to be performed in order to satisfy all effected parties.**

**All avenues and means of extensive research and studies will be considered, performed and prepared within the time frame of the Preliminary Permit by the appropriate Local, City, Municipalities, State, Federal, Tribal, Universities, Public and or Private that are required, needed or wish to be involved in the research and studies for this tidal hydropower project.**

**Let it be known that no construction of any type of pilot project will be performed under this application. It is expected that the full 36-month term for a Preliminary Permit will be utilized to perform research and studies to support an application for a future license. All research and studies will be performed with regard to preventing or reducing environmental impacts.**



### **EXHIBIT 3. STATEMENT OF COSTS AND FINANCING**

#### **1. Cost and Financing of Research and Studies**

An accurate figure of the costs to perform and prepare all research and studies involved in this extensive project are unknown at this time. One of the first phases of this project is to coordinate all parties required, needed or having an interest in being involved in this project. From that phase Green Hydropower Inc. will be able to better determine the appropriate research, studies and costs associated with them.

Because of the nature of this first of its kind tidal hydropower project, many facts and figures are unknown at this time. In order to give an accurate and honest account of those facts and figures, a timeframe within the Preliminary Permit term will be needed to provide them.

#### **2. Description of Anticipated Market**

The anticipated market for the renewable energy produced by this tidal hydropower project will be the greater metropolitan Los Angeles, California area.

The anticipated markets that will gain from the potential additional precipitation produced by the evaporation of the Death Valley National Park, California saltwater reservoir are endless. All of the surrounding Colorado River Basin States will experience a gain in freshwater resources, further enabling the production of clean hydroelectric power to be produced by already existing hydropower plants.

## **EXHIBIT 4. MAP OF PROPOSED TIDAL HYDROPOWER PROJECT**

### **1. Proposed Tidal Hydropower Project Boundaries**

**Map 1 is an overall map of the proposed (Santa Monica Bay, California / Death Valley National Park, California) tidal hydropower and evaporation project.**

**Landscape Maps 88, 95, 103 and 109 provide expanded views of proposed project area traveling in the above order from North To South.**

### **2. National Wild and Scenic Rivers**

**The proposed tidal hydropower and evaporation project boundaries and areas do not include any areas designated or being considered for inclusion in the National Wild and Scenic River Systems.**

### **3. Wilderness Act**

**The proposed tidal hydropower and evaporation project boundaries and areas do include areas designated as Wilderness Areas under the Wilderness Act. Approximately 95% of the Death Valley National Park is designated as Wilderness under the Wilderness Act.**

**18 C.F.R. SECTION 4.32 INFORMATION**

- 1. Green Hydropower Inc. is the only entity that has or intends to obtain and will maintain any proprietary right necessary to research, study, evaluate, construct, operate or maintain the proposed project property.
- 2. Municipal Information

Death Valley National Park is included in the proposed tidal hydropower and evaporation project. No Federal facilities would be used by the proposed project. The area proposed for research, studies, evaluation and testing is located within four Counties.

Los Angeles County  
 713 Kenneth Hahn Hall of Administration  
 500 West Temple Street  
 Los Angeles, CA 90012  
 Phone: 213-974-1101  
 Fax: 213-687-7130

San Bernardino County  
 385 North Arrowhead Avenue  
 San Bernardino, CA 92415-0120  
 Phone: 909-387-5417  
 Fax: 909-387-5430

Inyo County  
 168 North Edwards Street  
 Independence, CA 93526  
 Phone: 760-878-0366

Kern County  
 1115 Truxtun Avenue Fifth Floor  
 Bakersfield, CA 93301  
 Phone: 661-868-3140  
 Fax: 661-868-3100

- 3. City or Town where project will be located

No dam is proposed in association with this proposed tidal hydropower project. Although, the Cities and Towns with a population of 5,000 or more that lie within 15 miles of the proposed research and studies area include:

City of Los Angeles  
 200 North Spring Street Room 303  
 Los Angeles, CA 90012  
 Phone: 213-978-0600

City of Hawthorne, CA  
 City of Inglewood, CA  
 City of Westmont, CA

City of Alhambra, CA  
 City of San Gabriel, CA  
 City of Monterey Park, CA  
 City of Huntington Park, CA  
 City of Bell, CA  
 City of Pasadena, CA  
 City of Rosemead, CA  
 City of Temple City, CA  
 City of Arcadia, CA  
 City of Monrovia, CA  
 City of Altadena, CA  
 City of South Gate, CA  
 City of Lawndale, CA  
 City of Gardena, CA  
 City of Redondo Beach, CA  
 City of Burbank, CA  
 City of Glendale, CA  
 City of Santa Monica, CA  
 City of Beverly Hills, CA  
 City of Hollywood, CA  
 City of El Monte, CA  
 City of West Covina, CA

City of Baldwin Peak, CA  
 City of La Puente, CA  
 City of Hacienda Heights, CA  
 City of Monte Bello, CA  
 City of Whittier, CA  
 City of Pico Rivera, CA  
 City of La Mirada, CA  
 City of Norwalk, CA  
 City of Cerritos, CA  
 City of Downey, CA  
 City of Bell Gardens, CA  
 City of Bell Flowers, CA  
 City of Lakewood, CA  
 City of Paramount, CA  
 City of Compton, CA  
 City of Willow Brook, CA  
 City of Lynwood, CA  
 City of Carson, CA  
 City of Torrance, CA  
 City of Palmdale, CA  
 City of Lancaster, CA

4. No Federal facilities would be used by or otherwise associated with the proposed tidal hydropower and evaporation project. No special purpose political subdivisions exist within the proposed boundary for research and studies of this proposed tidal hydropower project.

No other known political subdivisions exists within the proposed tidal hydropower project research and studies areas and boundaries. Green Hydropower Inc. will consult with all agencies and organizations with authority over the waters, tidal lands, lands and resources that lie within the proposed boundary for research and studies of this proposed tidal hydropower project.

5. Indian Tribes and other Organizations that may be effected by the proposed tidal hydropower project

Green Hydropower Inc. has identified the following Indian Tribes and other Organizations that may be effected by or have interest in this proposed project. Green Hydropower Inc. will continue to research and consult with Indian Tribes and other Organizations that may have an interest in this proposed project.

Big Pine Reservation  
 P.O.BOX 700  
 Big Pine, CA 93513

Timbi-Sha Shoshone Tribe  
 P.O.BOX 206  
 900 Indian Village Road  
 Death Valley, CA 92328

**Bishop Indian Tribe  
P.O.BOX 548  
Bishop, CA 93514  
Phone: 619-873-3584  
Fax: 619-873-4143**

**Fort Independence Indian Tribe  
P.O.BOX 67  
Independence, CA 93526  
Phone: 760-878-3200**

**United States Dept. of Interior  
1849 C street N.W.  
Washington, D.C. 20240  
Phone: 202-208-3100**

**National Park Service  
Pacific West Region  
One Jackson Center  
1111 Jackson Street, Suite 700  
Oakland, CA 94607  
Phone: 510-817-1304**

**Bureau of Reclamation  
Mid Pacific Regional Office  
Federal Office Building  
2800 Cottage Way  
Sacramento, CA 95825-1898  
Phone: 916-978-5000  
Fax: 916-978-5599**

**California Office of The Governor  
State Capital Building  
Sacramento, CA 95814  
Phone: 916-445-2841  
Fax: 916-445-4633**

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