



GL03195

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Conservation Division, MS 92
345 Middlefield Road
Menlo Park, CA 94025

AUG 29 1980

UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.

AUG 22 1980

Memorandum

To: Interested Parties

From: Acting Deputy Conservation Manager - Geothermal

Subject: Plan of Utilization, 72 MW Electric Generating Unit, SMUDGE0 #1,
Sacramento Municipal Utility District, Federal Lease CA-1862,
Geysers-Calistoga KGRA, Sonoma County, California
Ref: 2403-01 CA-1862 (POU for EA 158-81)

The Sacramento Municipal Utility District (SMUD) has submitted a Plan of Utilization in accordance with 30 CFR 270.34-1 to construct and operate a 72 MW electric generating unit (to be called SMUDGE0 #1) on Federal lease CA-1862 in the Geysers-Calistoga KGRA, Sonoma County, California. A copy of the Plan is enclosed for your review and files.

A Joint Environmental Statement (JES) will be prepared for the proposed plant with the California Energy Commission (CEC) acting as the lead agency for the preparation of the document. The USGS Deputy Conservation Manager-Geothermal (DCM-Geothermal) is preparing input to the JES and will adopt the final JES as the Environmental Assessment (ref: EA #158-81) for the Plan of Utilization.

A field inspection was conducted for the site by the California Energy Commission on April 2, 1980. No further field inspections are proposed at this time, however, you are encouraged to visit the site at your own convenience. Any inquiries should be directed to Mr. Ted Hudson, District Geothermal Supervisor, 777 Sonoma Ave., Room 213, Santa Rosa, California (Tel: (707) 525-4326, FTS: 450-4326).

We urge you to send written commentary and will appreciate hearing from you even if you are of the opinion that the existing regulations, lease terms, and operational orders provide adequate environmental protection.

All comments concerning the proposed actions should be received no later than September 26, 1980 by:

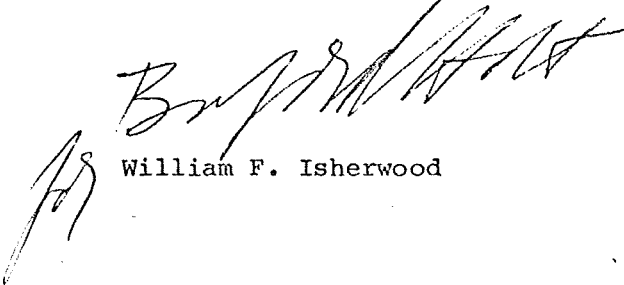
Deputy Conservation Manager-Geothermal
U.S. Geological Survey
Conservation Division
345 Middlefield Road, MS-92
Menlo Park, CA 94025
(415) 323-8111, XT 2848, FTS 467-2848

All comments will be given serious consideration in the preparation of the JES and any subsequent Conditions of Approval.

Although the Application for Certification (AFC) is heavily referenced in the POU, the AFC is not included in this mailing because many of the Interested Parties have already had copies furnished them by the CEC. Copies are available for inspection at the CEC office in Sacramento, CA, The DCM-Geothermal office in Menlo Park, CA, and at the following public libraries:

Lake County Library, Lakeport, CA
Mendocino County Library, Ukiah, CA
Middletown Library, Middletown, CA
Napa City/County Library, Napa, CA
St. Helena Public Library, St. Helena, CA
Sonoma County Library, Santa Rosa, CA
Sonoma State College Library, Rohnert Park, CA
Sacramento City and County Libraries (3), Sacramento, CA

The DCM-Geothermal Office will routinely distribute copies of the completed final JES to the surface managing agency (BIM, Ukiah, CA), the lessee/operator, the Geothermal Environmental Advisory Panel (GEAP), and the U.S. Fish and Wildlife Service. Other Interested Parties may receive a copy of the final JES upon request. Copies of the JES will also be available for inspection during normal business hours at the DCM-Geothermal Office, the District Geothermal Supervisor's Office, Santa Rosa, CA, the BIM, Ukiah, CA District Manager's Office and the CEC Office, 1111 Howe Ave., Sacramento, CA, 95825.



William F. Isherwood

Enclosure

INTERESTED PARTIES EA #158-81

Sacramento Municipal Utilities District CA-1862
Plan of Utilization Geysers-Calistoga KGRA

* * * * *

District Geothermal Supervisor
USGS, Conservation Division
Post Office Box 5539
Santa Rosa, California 95042
*FIS 450-4326 Comm: 707-525-4326

Conservation Manager, Western Region
Conservation Division
U.S. Geological Survey
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*FIS: 467-2093 Comm: 415-323-8111

Deputy Conservation Manager, Resource
Evaluation -- Henry L. Cullins
USGS-Conservation Division
345 Middlefield Road, MS 80
Menlo Park, California 94025
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USGS-Subsidence Research
ATTN: Bruce L. Massey
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2800 Cottage Way
Sacramento, California 95825
*FIS 468-4258

Dr. G. D. Robinson, Chairman
Geothermal Environmental Advisory
Panel
345 Middlefield Road, MS 19
Menlo Park, California 94025
*FIS 467-2871 415-323-8111 X2871

Mr. Theodore W. Holland
U.S. Bureau of Land Management
550 W. Fort St., Box 042
Boise, Idaho 83724

California State Director
Bureau of Land Management
Federal Building, Room E-2841
2800 Cottage Way
Sacramento, California 95825
*FIS: 468-4676 Com (916) 484-4676

Ukiah District Manager
Bureau of Land Management
555 Leslie Street
Ukiah, California 95428
*Comm: 707-462-3873

U.S. Fish and Wildlife Service
ATTN: Field Superv Ecological Serv
2800 Cottage Way
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*FIS: 468-4516 Comm: 916-484-4516

U. S. Fish and Wildlife Service
ATTN: Gail Kobetich
Endangered Species Office
1230 N. Street, 14th Floor
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U.S. Environmental Protection Acy.
Radiation Program
ATTN: Michael O'Lonnell
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Las Vegas, Nevada 89114
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Department of Energy, Division of
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ATTN: Mr. Fred H. Abel, Prog Man
20 Massachusetts Avenue, NW
Washington, D.C. 20545

Department of Energy, Geothermal
ATTN: Bennie DiBona
20 Massachusetts Avenue, NW
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California Energy Commission
ATTN: James H. Wazlaw
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California Division of Oil & Gas
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California Department of Fish and
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INTERESTED PARTIES for EA #158-81

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Native American Heritage Committee
ATTN: William Pink
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*916-322-7791

State of California
Department of Parks & Recreation
ATTN: Knox Mellon, SHPU
P.O. Box 2390
Sacramento, California 95811

State of California
Public Utilities Commission
ATTN: Mr. William N. Foley
350 McAllister Street, Room 5069
San Francisco, California 94102

Mr. Tom Cordill
Sonoma County Planning Director
County Admin. Building, Rm. 105A
2555 Mendocino Avenue
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*Tel: 707-527-2412

Regional Water Quality Control Board
ATTN: David Snetsinger
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Santa Rosa, California 95401
*Tel: 707-545-2620

State of California
Water Resources Control Board
ATTN: Alvin Franks
P.O. Box 100
Sacramento, California 95801
*Comm: 916-445-2774

Northern California Power Agency
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Santa Clara, California 95051

*(competitive bidding history)

Sonoma State College
ATTN: Dr. David A. Fredrickson
Anthropology Laboratory
1801 East Cotati Avenue
Rohnert Park, California 94928
*Comm: 707-664-2381

Earth Science Laboratory
Univ of Utah Research Institute
ATTN: Phillip M. Wright
420 Chipeta Way, Suite 120
Salt Lake City, Utah 84108
*Tel (801) 581-5283

Geothermal Resources Council
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P.O. Box 98
Davis, CA 95616
*Comm: 916-758-2360

Mrs. Marjorie Sill
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*702-322-2867

INTERESTED PARTIES for EA #158-81

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*916-444-9132

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*707-462-6348

Amax Exploration, Incorporated
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Wheatridge, Colorado 80033
*FTS 234-3131 (303-420-8100)

Aminoil USA, Incorporated
ATTN: Mr. C. E. Woods
Post Office Box 11279
Santa Rosa, California 95406
*FTS Ope: 556-9000 707-527-5333/2

Anadarko Production Company
ATTN: Mr. R. C. Edmiston
Post Office Box 1330
Houston, Texas 77001
*DIRECT: 8-713-820-1101

Chevron USA, Inc.
ATTN: J.G. Turner
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*Tel: (415) 894-2726

Magcohar Division
Dresser Industries, Incorporated
ATTN: Don Walters
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Los Angeles, California 90024

Energy and Natural Resources
Consultants
ATTN: Richard Jodry
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Richardson, Texas 75080
*214-238-9554

Environmental Science Associates, Inc
ATTN: Paul Zigman
1291 E. Hillsdale Blvd.
Foster City, CA 94404
*415-573-8500

H. C. Bemis
Fluid Energy Corporation
Hampden East Building, Suite 315
8000 East Girard Avenue
Denver, Colorado 80231

GeothermEx, Inc
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901 Mendocino Avenue
Berkeley, California 94707
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Geothermal Power Corporation
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Geothermal Resources International
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Geothermal Services, Inc.
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Getty Oil Company
ATTN: Mr. Dan W. Sparks
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*FTS: 984-1011 (805)394-2961

Gulf Mineral Resources Company
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ATTN: Mr. Glen Campbell
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INTERESTED PARTIES for EA #158-81

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Magma Power Company
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W. F. Bates
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Occidental Geothermal, Inc.
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*Tel (805) 395-8000

Phillips Petroleum Company
Geothermal Operations
ATTN: Bob Wright
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*Comm: 801-364-2083

Republic Geothermal, Incorporated
ATTN: Mr. Dwight Carey,
and Ms. Tawna Nicholas
Post Office Box 3388
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*Tel: (213) 945-3661

Shell Oil Company
ATTN: Mr. F.W. Wantker
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Worldway Center
Los Angeles, California 90009
*Tel: (805) 648-2751

Southland Royalty Company
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Fort Worth, Texas 76102
*FTS Opr: 334-3001 (817)390-9200

Hydrothermal Energy Corporation
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*213-654-6397

Magma Electric Company
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New Albion Resources Company
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INTERESTED PARTIES for EA #158-81

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Beverly Hills, California 90211

Union Oil Company of California
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Union Oil Company
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Santa Rosa, California 95406

Union Oil Company
ATTN: Don Ash and Henry I. Snow
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Union Oil Company of California
Geothermal Division
ATTN: Neil Stefanides
Union Oil Center, PO Box 7600
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*213-486-7740

VIN
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Voris Brumfield
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Middletown, California 95461

Mr. Robert Bull
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Ms. Margaret F. Clark
1705 Carmel Drive
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Mr. Ernest W. Frandsen
Post Office Box 426
Geyserville, California 95441

Patricia Hofsaes
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INTERESTED PARTIES for EA #158-81

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*Comm (707) 928-5323

Mr. Clyde E. Kuhn
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Davis, California 95616

Ms. Cheryl Pourroy
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Mr. John S. Runner
1132 S. Park Circle Drive
Fresno, California 93727

Mr. Charles T. Simmons
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Thousand Oaks, California 91360

Ms. Evelyn V. Swirles
Geysers Development Partnership
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Rancho Santa Fe, California 91360

Mr. Warren M. Woodward
125 Drew Drive
Reno, Nevada 89511
*FTS 470-5911 702-825-3079



SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT □ 6201 S Street, Box 15830, Sacramento, California 95813; (916) 452-3211

June 13, 1980

RECEIVED
JUN 16 1980

AREA GEOTHERMAL SUPERVISOR'S OFFICE
CONSERVATION DIVISION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIFORNIA

U.S. Department of Interior
Geological Survey
Mr. W. Isherwood
Area Geothermal Supervisor, Acting
2465 East Bayshore Road, Suite 400
Palo Alto, California 94303

Dear Mr. Isherwood:

The Sacramento Municipal Utility District (SMUD) hereby files in triplicate this Plan of Utilization under Title 30, Code of Federal Regulations, Part 270.34-1. The proposed plant, named SMUDGE0 No. 1, is a 55 MW electric generating unit sited on Federal Lease Unit 7 West CA 1862. The geothermal steam will be supplied by Aminoil USA, Inc., the lessee for the above cited lease. A "Designation of Facility Operator" was filed by Aminoil with your office on February 13, 1980.

SMUD filed an Application for Certification (AFC) with the California Energy Commission on February 19, 1980. This AFC was filed under Section 1803(b) of the Energy Commission's regulations, which allows the Energy Commission 12 months to complete their review. A Power Plant Site License application (43CFR3250 et. seq.) is being filed with the Bureau of Land Management simultaneously with this filing.

Both the United States and the State of California exercise some degree of jurisdiction over the project. The roles of the various agencies are defined in the Memorandum of Understanding between the Geological Survey, Bureau of Land Management, and the Energy Commission. It is SMUD's intent to work cooperatively with all parties to ensure timely approval of the project.

The Plan of Utilization is organized in accordance with Section G of Geothermal Resources Operational Order 5 (draft). The primary reference is the Application for Certification, supplemented where required.

Sincerely,

Wm. C. Walbridge
General Manager

Enclosures:

- Plan of Utilization
- Power Plant Site Application submitted to the Bureau of Land Management
- Evaluation of the Potential for Generation of Electricity, Geothermal Lease CA-1862, by GeothermEx, Inc.

PLAN OF UTILIZATION

SMUDGE #1

RECEIVED
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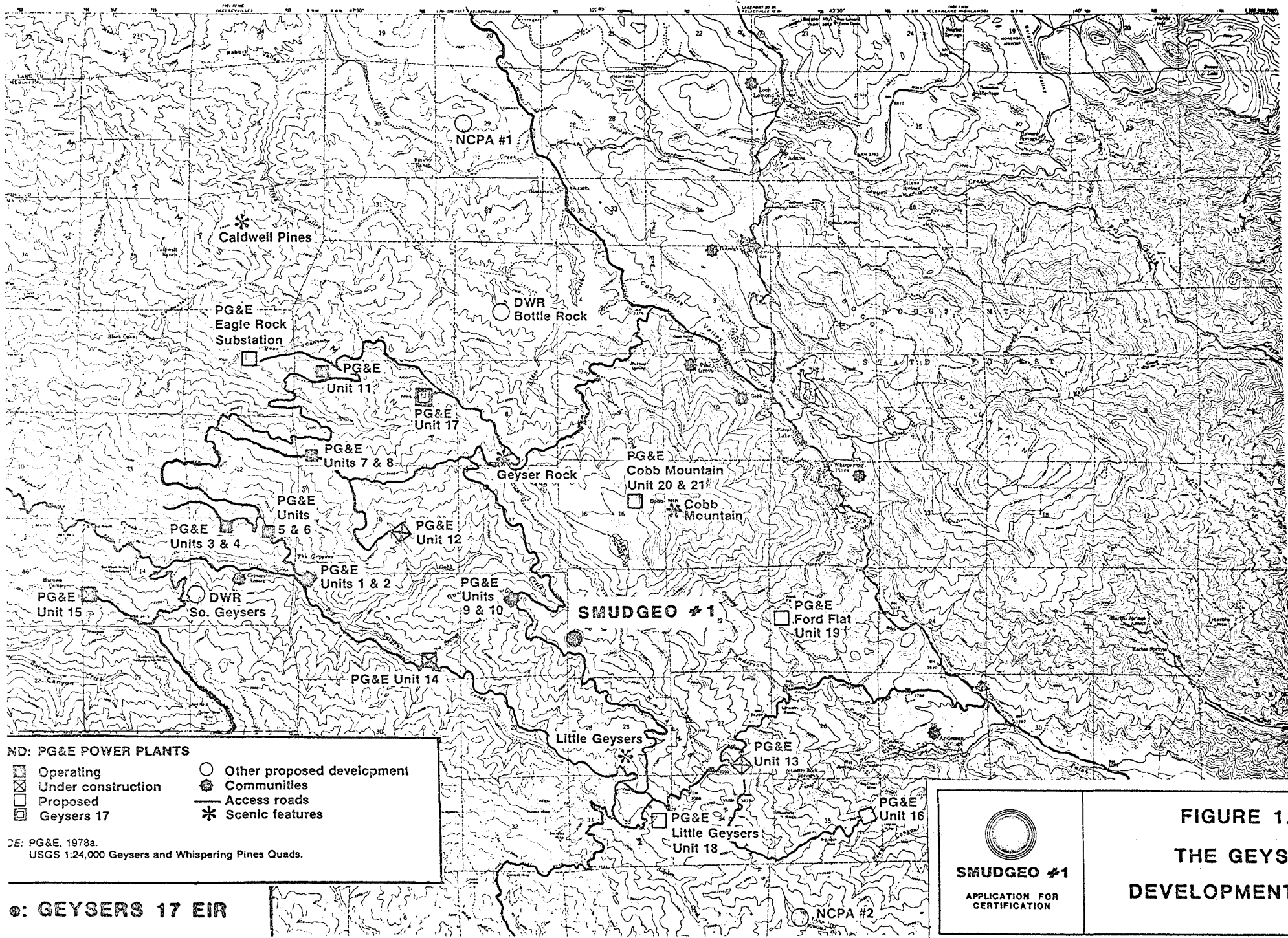
AREA CONSERVATION SUPERVISOR'S OFFICE
CONSERVATION DIVISION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIFORNIA

SUBMITTED BY

SACRAMENTO MUNICIPAL UTILITY DISTRICT
6201 S STREET
P.O. BOX 15830
SACRAMENTO, CALIFORNIA 95813

(916) 452-3211

JUNE, 1980



SMUDGEO #1
 APPLICATION FOR
 CERTIFICATION

FIGURE 1.1
THE GEYSER
DEVELOPMENT