DELLOOMY

AMENDMENT OF SOLICITATION

SCAP DE-SC07-80ID12139

USER-COUPLED CONFIRMATION
DRILLING PROGRAM

-3

STANDARD FORM 30, JULY 1966 GENERAL SERVICES ADMINISTRATION FED. PROC. REG. (41 CFR) 1-16.101 AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT 1				
AMENDMENT/MODIFICATION NO. 2. EFFE	TIVE DATE 3. REQU	SITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If app	licable)
S. ISSUED BY CODE U. S. Department of Energy Idaho Operations Office 550 Second Street		NISTERED BY (If other than block 5)	CODE	
Idaho Falls, Idaho 83401	FACILITY CO.	DE 8.	COAD	
NAME AND ADDRESS	TACILITY CO.	ANTEN	SCAP SCAP STATION NODE-SCO7-80	מבובוחוו
Prospective Proposers (Street, city, User-Coupled Confirma County, state, and ZIP Code)	tion	DATEL	6/11/80 See bl. FICATION OF RACT/ORDER NO.	
L		DATE)(See bl	ock 11)
9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATION:	5			
The above numbered solicitation is amended as set forth in bloc	k 12. The hour and dat	e specified for receipt of Offers 💢 is e	xtended, is not extended.	
Offerors must acknowledge receipt of this amendment prior to the	•			
(a) By signing and returningcopies of this amendment; (b) B which includes a reference to the solicitation and amendment num DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. or letter, provided such telegram or letter makes reference to the s	bers. FAILURE OF YOUR If, by virtue of this amen	ACKNOWLEDGEMENT TO BE RECEIVE Iment you desire to change an offer air	D AT THE ISSUING OFFICE PRIC eady submitted, such change may	R TO THE HOUR AND
10. ACCOUNTING AND APPROPRIATION DATA (If required)		<u>-</u>		
, , , , , , , , , , , , , , , , , , , ,				
11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACT	S/ORDERS			
(a) This Change Order is issued pursuant to				<u>.</u>
The Changes set farth in block 12 are made to the above				
(b) The above numbered contract/order is modified to reflect	-	i (such as changes in paying office, app	propriation data, etc.) set forth in	block 12.
(c) This Supplemental Agreement is entered into pursuant to authority of				
12. DESCRIPTION OF AMENDMENT/MODIFICATION				
 The closing date is hereby ex received at the above address 			nd proposals mus	t be
 Attachment A, consisting of four (4) pages of answers to written questions submitted in response to this SCAP. 				
 Attachment B, draft Cooperati and conditions. 	ve Agreement	showing proposed co	ontractual form,	terms
4. Attachment C, mailing list fo	r this SCAP.			
·				
Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.				
13. CONTRACTOR/OFFEROR IS NOT REQUIRED CONTI	ACTOR/OFFEROR IS REQ	UIRED TO SIGN THIS DOCUMENT AN	D RETURNCOPIES TO	ISSUING OFFICE
14. NAME OF CONTRACTOR/OFFEROR		17. UNITED STATES OF AMERICA	<u></u>	
8Y		BY /Ull W 1	laser	
(Signature of person authorized to sig			nature of Contracting Officer)	
15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICE Nell W. Fraser	ER (Type or print)	19. DATE SIGNED 7/16/80
	1			1

USER-COUPLED CONFIRMATION DRILLING PROGRAM

SOLICITATION FOR COOPERATIVE AGREEMENT NO. DE-SCO7-80ID12139

QUESTIONS AND ANSWERS

- 1. Q. Should the drilling team be selected prior to the proposal submission? If not, what level of specificity concerning the drilling specifications and driller selection process is required?
 - A. The drilling team should be responsible for the drilling plan and costs associated with the drilling phase for the proposal. The selection of the drilling contractor would not be required prior to drilling. See SCAP P.6 Project Management. The preliminary drilling plan must be comprehensive enough to determine realistic costs and contain sufficient detail in design and scope of work to provide a good basis for evaluation. It is reasonable to assume the more detail the better the evaluation. See SCAP P.35 Drilling Guidelines.
- 2. Q. Can project funds be spent on market development activities beyond the use identified in the proposal?
 - A. No. The Cooperative Agreements will only support activities for resource exploration as itemized on P.2 of the SCAP.
- 3. Q. What is considered a reasonable level or project funding toward institutional problem solving and coordination?
 - A. The level of funding should be appropriate for the institutional problems involved and in the coordination required to complete the resource confirmation. See SCAP. P.40, Institutional Guidelines.
- 4. Q. Is it possible for DOE to share costs up front rather than after they are incurred?
 - A. No. One goal for the User Coupled Drilling Program is to develop a self-sustaining industry. Having the participant responsible for his own funding develops contacts between users and lenders that will continue once the government has stepped out of the program.
- 5. Q. When will DOE make payments? Is there a schedule of payouts based upon completion of project milestones?
 - A. DOE will pay 20 percent of allowable costs as the project progresses. These payments will be made throughout the project and will be in accordance with the provisions negotiated into

the Cooperative Agreement. Upon completion of the project, DOE will make a final lump-sum payment on any remaining portion of its cost share determined by the degree of success of the well. See P.3 of the SCAP.

- 6. Q. Is DOE only interested in financing projects which private investors would not find attractive?
 - A. Because infrastructure currently is lacking for development of geothermal resources, DOE is stimulating resource confirmation and infrastructure development through this SCAP. Proposals which will be selected for support must demonstrate economic feasibility and would presumably be of interest to private investors if such an infrastructure were developed.
- 7. Q. Could you please define more precisely how far advanced a project must be before DOE would consider issuing a Cooperative Agreement? How much exploration must be completed? Will a higher evaluation be given to projects with must of the exploration already completed?
 - A. DOE will support the full exploration phase for drill site selection through the testing of a new or an existing well. See SCAP P.2 and 3. The proposer must select a specific site area with a good likelihood of producing the volume of fluid and temperatures needed for the proposed direct heat end use. This must be based on geology, geophysics and geochemistry. See SCAP P.8.5.b. Resource potential is one of the evaluation factors. At sites for which there is expectation of equal resources, the greater knowledge available on the resource, the more likely the proposal will be graded higher on this factor.
- 8. Q. Are you encouraging small projects such as heating greenhouses or larger ones which could provide space heat for numerous homes, offices or process heat for manufacturing, etc?
 - A. Projects which put more "BTU's-on-line" for the amount of DOE dollars at risk are preferred. The impact of the project on local and regional energy needs is also an evlauation factor. See SCAP P.18 and 20. Technical and Economic Feasibility and Program Policy and Preference Factors.
- Q. The single use of electrical generation is not encouraged.
 Does this mean that a large eletrical generation plant or any size electrical generation system will not be supported.
 - A. The solicitation does not address single electric generation end use of any size and proposals for such are not appropriate.

- 10. Q. In our project the produced hydrothermal fluid will be used to dehydrate the product (direct application) which will then be burned in conventional boilers to produce power. Does this type of project have applicability for submission under this SCAP?
 - A. Yes. Your project identifies the direct use of hydrothermal fluid to produce a dried product which will later be used to produce electric power. It is acceptable under this SCAP.
- 11. Q. What do you consider adequate (length of time, etc.) for the flow test?
 - A. The long-term testing must be of sufficient duration to obtain thermal equilibrium conditions, indicate reservoir characteristics and permit reasonably confident prediction of behavior over the life of the intended use. See SCAP P.37, Well Testing Guidelines.
- 12. Q. It is anticipated that he proposer under this SCAP wil be a private corporation, but will the involvement of the USFS in other portions of the feasibility study impact our consideration?
 - A. Assistance to the proposer by another Federal agency would not disqualify a proposal made by a qualified proposer. If a proposer obtains grants from other Federal or State agencies the percentage of funding in any Cooperative Agreement would apply only to the "at risk" investment of the proposer.
- 13. Q. We are investigating, in substantial detail, the engineering aspects of a proposed project. Most of this work will be performed during and after the drilling of the deep exploration well. What degree of engineering feasibliity is needed to insure consideration under the SCAP?
 - A. The proposer should complete whatever degree of engineering feasibility work he feels necessary to develop a proposal and obtain his financing. The only factors which are prerequisites for consideration under this SCAP are the Qualification Criteria listed on Page 6 of this SCAP. The evaluation criteria do address technical feasibility and sufficient information should be presented for this evaluation.
- 14. Q. The feasibility should of our proposed project will hinge on two major components:
 - a. The long run cost of the raw materials delivered to the plant.
 - b. The flow rate, termperature and reservoir characteristics of the geothermal resource.

- In determining the variable cost share formula, what provisions can be made to reflect the fact that the feasibility of the project is greatly dependent on the delivered raw material?
- A. The cost of raw material and the overall economic feasibility of your project have only an indirect bearing on the nature of the cost-share formula, but these factors are important in the overall economic feasibility of the project which is a technical evaluation factor. The cost-share formula is based on the value of the resource to you as a substitute for a traditional power source such as electricity or natural gas, and is a function of resource characteristics such as temperature, flow, or water quality.

A STA	U.S. DEPARTMENT OF ENERGY	1.a. Agreement No. 1.b. Modification No.
	IDAHO OPERATIONS OFFICE	DE-FC07-
E	COOPERATIVE AGREEMENT	2. Agreement Period
ID FO	2TES 9	
(Rev. Ref. C	05-80) MD PURSUANT TO AUTHORITY OF PL 93-410, PL 93-438,	
	PL 93-473, PL 93-577, and PL 95-91	From: To:
3.	Participant Name and Address	
		4. Participant Type
		☐ Educational ☐ Nonprofit
		☐ State or Local Government ☐ Profit
	Project Title	6. Project Will be Conducted per
	Jser-Coupled Confirmation Drilling	
ŀ	Program	See Article
		7. Technical Reports Are Required
		See Article
8.	Principal Investigator(s) or Program Director(s) Name and	DOE Program Officer (Name and Address)
	Address	3. DOE Program Officer (Name and Address)
		·
	<u>,</u>	Telephone No.
10.	Accounting and Appropriation Data	11Method of Payment
		☐ % At Award, % When Requested, 5% Upon
		Div Letter of Credit Receipt of Final Report
	J. S. Dept. of Energy, 550 2nd St.	☐ Reimbursement
	Idaho Falls, Idaho 83401	☐ Other (specify) See Article
13.	Funding Sources	14. Remarks:
	Source Amount	
	DOE:	
	Participant: \$	DDAET
	Total Funding: \$	DRAFT
	- Coloring.	1 6 1980
15.	Amount Obligated By This Action: \$	DATE
16.	DOE Issuing Office (Name and Address)	
	Idaho Operations Office	
	550 Second Street Idaho Falls, Idaho 83401	
	Tuano faris, Tuano 65401	
17.	DOE Contracting Officer	18. Participant Acceptance
		By
	Signature of Contracting Officer (Date)	Signature of Authorized Official (Date)
	,	
Na	me (typed)	Name (typed)
Ta	lephone No.	Title
, e	repriorie No.	

Cooperative	Agreement	No.	DE-FCO7-	

SCHEDULE

ARTICLE I -	STATEMENT OF	JOINT	OBJECTIVE

The purpose of this Cooperative Agreement between the United States Department of Energy (DOE or Government) and (Participant) is to develop and demonstrate
. This action is authorized by Federal law and is in furtherance of the U.S. Government's objective to The Participant will receive the benefit of, and DOE will obtain data pertaining to the design, construction and operation of such unit.
ARTICLE II - THE PROJECT MANAGEMENT PLAN
A. Participant's Responsibilities. The Participant shall furnish the materials, facilities, equipment, personnel, services, and all other necessary and related items for the design, construction and operation of an inert anode for aluminum smelting. The work includes all that is necessary to provide a complete operating facility and, further, for the collection and dissemination of data and other information concerning the construction, operation and maintenance costs, engineering characteristics, and maintenance requirements of the facilities for a period of operation of the facilities. Requirements of the project are further set forth in Appendix B to this Agreement which is titled "PROJECT TASKS, SCHEDULE BACKGROUND, AND REPORTING REQUIREMENTS" and which is made a part hereof by this reference. The Participant shall provide the funding and reports as specifically provided for elsewhere in this Agreemeent, and obtain all necessary licenses and permits.
B. <u>DOE's Responsibilities</u> . DOE will provide a specified amount of financial assistance, and will monitor the project to observe the progress. In addition, DOE will act upon the Participant's requests for approval in those instances in which DOE's approval is required.
ARTICLE III - FINANCIAL SUPPORT
A. Estimated Cost. The total estimated cost of the work under this Agreement is
B. DOE's Financial Support. The total cost to DOE for all the work under this project is

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	Cooperative	Agreement	No.	DE-FCO7-	
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ARTICLE III - FINANCIAL SUPPORT (Cont'd)

	С.	Partici	pant's F						excess of provided	
will	be	borne by	the Par	ticipar	nt. The	e e:	stimat	ed cost to	the Partie	cipant is
		Obligate t by DOE		. The	amount	of	funds	presently	obligated	to this _Dollars

ARTICLE IV - METHOD OF PAYMENT

- A. DOE will make incremental payments by Treasury check to the Participant in the amounts set forth below at such times as the specified milestones are achieved and upon receipt of invoices or vouchers and a cost statement from the Participant. Such invoices or vouchers must be supported by a statement that the costs are allowable as defined in ARTICLE VIII of this Agreement.
- B. At any time or times prior to final payment under this Agreement, the Contracting Officer may have the costs incurred under this Agreement audited. The total of DOE payments cannot exceed the total, actual, allowable costs incurred. If the Contracting Officer finds, on the basis of audit or otherwise, that allowable costs as defined in ARTICLE VIII do not equal or exceed the amount of funds DOE has agreed to provide, total payments shall be reduced accordingly.
- C. As more definitive project cost and schedule data become available, the parties may review the milestone and payment schedule and, by written agreement, make adjustments. Under no circumstances, however, will DOE's costs exceed the amounts provided for in ARTICLE III.

ARTICLE V - TERM OF THE AGREEMENT

The work under this Agreement shall be completed by or within any extension of time as may be mutually agreed to in writing by the parties.

ARTICLE VI - PROJECT INFORMATION SYSTEM

Reporting Requirements. The Participant shall furnish to DOE the reports and information identified in Appendix B.

ARTICLE VII - RESPONSIBLE PERSONS AND PERSONNEL

- A. The Participant agrees to permit any specified DOE personnel to have necessary access to the Participants and/or major subcontractor's facilities, personnel, and records pertaining to the project. Such DOE personnel may be used to assist the Program Officer in carrying out his responsibilities.
 - B. (1) The Program Officer for DOE under this Agreement, and the person who shall be the Participant's contact for all technical matters pertaining to this Agreement shall be the person named below or such other person as may be designated in writing by the Contracting Officer:

(2) The representative for the Participant for the purposes of this Agreement shall be the person named below or such other person as may be designated in writing by the Participant:

ARTICLE VIII - ALLOWABLE COST

Costs shall constitute allowable costs as specified in Subpart 1-15.2 of the Federal Procurement Regulations (41 CFR 1-15) as may be modified by Subpart 9-15.2 of the DOE Procurement Regulations in effect on the date of this Agreement.

ARTICLE IX - ACQUISITION OF GOODS AND SERVICES

- A. In furtherance of the work under this Agreement, each subcontract or purchase order for goods or services which, separately, exceeds _______, shall require the written approval of the Contracting Officer. The Participant may request such approval by submitting to the Contracting Officer a copy of the proposed subcontract document along with justification for the selection of the proposed subcontractor. If the Contracting Officer fails to respond to the request for approval within ten (10) days after receiving such request, the Participant may award the subcontract or purchase order.
- B. The subcontractors for the goods and services referred to in paragraph A. above, shall be selected competitively except those subcontractors who were specifically identified in the Participant's proposal.

ARTICLE X - TERMINATION

- A. It is the express intent of DOE and the Participant to fund their respective cost participation for the project, as such cost participation is set forth under Article III of this Agreement, so as to provide continuity and completion of the project. If, notwithstanding this original intent, it becomes apparent to either party that incremental funding for its cost participation will not be available as needed, either in whole or in part, in order to provide continuity for the completion of work under this Agreement, each party agrees to promptly advise the other of such funding problem, and if practicable and consistent with their mutual interest at the time, the parties may attempt to cooperatively adjust the schedule and/or the content of the work towards best serving the objectives of this Agreement within the available committed and planned funding of each party.
- B. Notwithstanding the foregoing, it is understood that DOE may at any time upon giving written notice to the Participant by the Contracting Officer terminate this Agreement for its convenience for any reason.
- C. Also, notwithstanding the foregoing, it is understood that the Participant may at any time upon giving written notice to DOE terminate this Agreement for its convenience for reasonable cause. The Participant may not terminate for convenience after seventy-five percent (75%) of DOE's contribution to the project has been committed, and should such termination occur, it will constitute a breach of contract.
- D. In the event of termination for convenience by either party, the parties will cooperate to reasonably phase-out the Participant's costs and cost commitments incurred prior to the termination. If the termination is for the convenience of the Government, the termination cost claim may include those costs provided for in paragraph G. of this Article X. If the termination is for the convenience of the Participant, the cost claim may include only those costs incurred prior to termination. In either case, the approved costs will be shared in accordance with the following: _____ percent (____) Government and _____ percent (____) Participant; provided; however, that the total amount obligated by the Government under this Agreement shall not be exceeded.
- E. In the event of termination for convenience by either party, the Participant shall:
 - (1) Place no further orders or subcontracts for materials, services, or facilities intended to be invoiced to the Government for its contribution.
 - (2) Terminate all orders and subcontracts to the extent that they relate to the performance of work.

ARTICLE X - TERMINATION (Cont'd)

- (3) Notwithstanding subparagraphs E.(1) and (2) above, the Participant has the right to proceed with such orders and subcontracts should it decide to continue performance of the work at its expense only.
- F. After a termination for convenience by the Government, the Participant shall submit to the Contracting Officer its termination claim. Such claim shall be submitted promptly but in no event later than one (1) year from the effective date of termination unless one or more extensions in writing are granted by the Contracting Officer.

G. Termination claims:

- (1) There shall be included therein the Government's share, as set forth in paragraph D., of the cost of settling and paying claims arising out of the termination of work under subcontracts or orders which are properly chargeable to this Agreement as determined by the Contracting Officer.
- (2) There shall be included therein the reasonable costs of settlement, including accounting, legal, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the termination and settlement of subcontracts thereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of termination inventory.
- H. Costs claimed, agreed to, or determined pursuant to this article must constitute allowable costs as defined in Article VIII, "Allowable Cost."
- I. If in the opinion of DOE, the Participant fails to substantially perform under this Agreement and does not cure such failure within a reasonable time after written notice of such failure by the Contracting Officer, DOE may by written notice to the Participant terminate this Agreement. Such termination notice, signed by the Contracting Officer, shall be effective upon receipt by the Participant. The Government shall not be liable for the incurrence of any obligations under this Agreement from the date of the receipt of such termination notice. Upon any such termination, the Participant agrees to promptly, upon DOE's request, transfer to DOE all information resulting from the work performed to the date of the termination notice.

<u>ARTICLE X - TERMINATION</u> (Cont'd)

- J. Except with respect to defaults of subcontractors, the Participant shall not be in default by reason of failure to substantially perform under this Agreement if such failure arises out of causes beyond the control and without the fault or negligence of the Participant. Such causes may include. but are not restricted to, acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather, but in every case the failure to perform must be beyond the control and without the fault or negligence of the Participant. If the failure to substantially perform is caused by the failure of a subcontractor to perform or make progress, and if such failure arises out of causes beyond the control of both the Participant and a subcontractor, and without the fault or negligence of either of them, the Participant shall not be deemed to be in default unless the supplies or services to be furnished by the subcontractor were reasonably obtainable from other sources. Upon request of the Participant, if the Contracting Officer shall determine that failure to perform was occasioned by any one or more of the aforementioned causes, this Agreement shall be revised accordingly. This provision does not preclude DOE from exercising its right to terminate for convenience.
- K. As used in this article, the term "subcontractor" means subcontractor at any tier.

ARTICLE XI - TITLE TO PROPERTY AND SITE RESTORATION

- A. The Government will own and maintain title of all items of materials, supplies, and all tangible property purchased with Government funds provided under this Agreement. The Government will determine disposition of such property at completion of the work under this Agreement or upon termination by either party and agrees that those costs incurred by the Participant in final disposition will be allowable costs.
- B. The Participant agrees that the Government shall not be subject to any obligation to restore or rehabilitate any of the premises, facilities or equipment owned and/or leased by the Participant which are altered, improved or otherwise affected by this Agreement.

ARTICLE XII - INDEMNIFICATION

It is recognized that the Participant as title holder of the facilities to be constructed under this Agreement is responsible for the design, installation, operation, repair and maintenance of such facilities. The Government therefore will not be liable for payment of damages for injuries to any person, or loss of life or personal property, or loss suffered or sustained and arising from use or operation of the facilities which are a subject of this Agreement. The Participant agrees to indemnify and save the Government harmless from any and all claims, demands, damages, actions, costs, or charges against the

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ARTICLE XII - INDEMNIFICATION (Cont'd)

Government arising as the result of the above-mentioned injuries, damages, or loss, except for any such damages or claims arising out of the negligent act of the Government, its employees or representatives in the course of their official duties.

ARTICLE XIII - PUBLIC INFORMATION RELEASES

The parties agree that public disclosure or dissemination of new data or information arising out of the design, construction or operation of the project will be coordinated by the parties, it being understood that the intent of both the Participant and DOE is to release all data and information to the greatest practicable extent in order to achieve the objective of obtaining maximum public value from the results of this project. It is understood that the foregoing is not intended to afford either party the right to prevent a public release by the other; however, nothing in this article shall impair the rights of the parties set forth elsewhere in this Agreement, including but not necessarily limited to General Provision 19. entitled "Patent Rights."

APPENDIX A - GENERAL PROVISIONS

COOPERATIVE AGREEMENTS

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APPENDIX A

GENERAL PROVISIONS

COOPERATIVE AGREEMENTS

1. <u>DEFINITIONS</u>

As used throughout this Agreement, the following terms shall have the meanings set forth below:

- A. The term "head of the agency" or "Secretary" as used herein means the Secretary, the Under Secretary, any Assistant Secretary, or any other head or assistant head of the executive or military department or other Federal agency; and the term "his duly authorized representative" means any person or persons or board (other than the Contracting Officer) authorized to act for the head of the agency or the Secretary.
- B. The term "Contracting Officer" means the person executing this Agreement on behalf of the Government, and any other officer or civilian employee who is a properly designated Contracting Officer; and the term includes, except as otherwise provided in this Agreement, the authorized representative of a Contracting Officer acting within the limits of his authority.
- C. Except as otherwise provided in this Agreement, the term "subcontract" includes purchase orders under this Agreement.
 - D. The term "DOE" means the U.S. Department of Energy.

2. INSPECTION

The Government, through any authorized representatives, has the right at all reasonable times, to inspect, or otherwise evaluate the work performed or being performed hereunder and the premises in which it is being performed. If any inspection, or evaluation is made by the Government on the premises of the Participant or a subcontractor, the Participant shall provide and shall require its subcontractors to provide all reasonable facilities and assistance for the safety and convenience of the Government representatives in the performance of their duties. All inspections and evaluations shall be performed in such a manner as will not unduly delay the work.

3. ASSIGNMENT OF CLAIMS

A. Pursuant to the provisions of the Assignment of Claims Act of 1940, as amended (31 U.S.C. 203, 41 U.S.C. 15), if this Agreement provides for payments aggregating \$1,000 or more, claims for moneys due or to become due the Participant from the Government under this Agreement may be assigned to a bank, trust company, or other financing institution, including any Federal lending agency,

3. ASSIGNMENT OF CLAIMS (Cont'd)

and may thereafter be further assigned and reassigned to any such institution. Any such assignment or reassignment shall cover all amounts payable under this Agreement and not already paid, and shall not be made to more than one party, except that any such assignment or reassignment may be made to one party as agent or trustee for two or more parties participating in such financing. Unless otherwise provided in this Agreement, payments to assignee of any moneys due or to become due under this Agreement shall not, to the extent provided in said Act, as amended, be subject to reduction or setoff. (The preceding sentence applies only if this Agreement is made in time of war or national emergency as defined in said Act and is with the Department of Defense, the General Services Administration the Department of Energy, the National Aeronautics and Space Administration, the Federal Aviation Administration, or any other department or agency of the United States designated by the President pursuant to Clause 4 of the provision of Section 1 of the Assignment of Claims Act of 1940, as amended by the Act of May 15, 1951, 65 Stat. 41).

B. In no event shall copies of this Agreement or of any plans, specifications, or other similar documents relating to work under this Agreement, if marked "Top Secret," "Secret," or "Confidential," be furnished to any assignee of any claim arising under this Agreement or to any other person not entitled to received the same. However, a copy of any part or all of this Agreement so marked may be furnished, or any information contained therein may be disclosed, to such assignee upon the prior written authorization of the Contracting Officer.

4. EXAMINATION OF RECORDS BY COMPTROLLER GENERAL

- A. This clause is applicable if the amount of this Agreement exceeds \$10,000 and was entered into by means of negotiation, including small business restricted advertising, but is not applicable if this Agreement was entered into by means of formal advertising.
- B. The Participant agrees that the Comptroller General of the United States or any of his duly authorized Government employees shall, until the expiration of three (3) years after final payment under this Agreement, unless DOE authorizes their prior disposition, have access to and the right to examine any directly pertinent books, documents, papers, and records of the Participant involving transactions related to this Agreement.
- C. The Participant further agrees to include in all its subcontracts hereunder a provision to the effect that the subcontractor agrees that the Comptroller General of the United States or any of his duly authorized Government employees shall, until the expiration of three (3) years after final payment under the subcontract, unless the DOE authorizes their prior disposition, have access to and the right to examine any directly pertinent books, documents, papers, and records of such subcontractor, involving transactions related to the subcontract. The term "subcontract" as used in this clause excludes (1) purchase orders not exceeding \$10,000 and (2) subcontracts or purchase orders for public utility services at rates established for uniform applicability to the general public.

4. EXAMINATION OF RECORDS BY COMPTROLLER GENERAL (Cont'd)

- D. The periods of access and examination described in paragraphs A. and B., above, for records which relate to (1) appeals under the "Disputes" clause of this Agreement, (2) litigation or the settlement of claims arising out of the performance of this Agreement, or (3) costs and expenses of this Agreement as to which exception has been taken by the Comptroller General or any of his duly authorized representatives, shall continue until such appeals, litigation, claims or exceptions have been disposed of.
- E. Nothing in this Agreement shall be deemed to preclude an audit by the General Accounting Office of any transaction under this Agreement.

5. CONVICT LABOR

In connection with the performance of work under this Agreement, the Participant agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1965 [18 U.S.C. 4082(c)(2)] and Executive Order 11755, December 29, 1973.

6. OFFICIALS NOT TO BENEFIT

No member of or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this Agreement, or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this Agreement if made with a corporation for its general benefit.

7. COVENANT AGAINST CONTINGENT FEES

The Participant warrants that no person or selling agency has been employed or retained to solicit or secure this Agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Participant for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this Agreement without liability or in its discretion to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

8. NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT

(The provisions of this clause shall be applicable only if the amount of this Agreement exceeds \$10,000.)

A. The Participant shall report to the Contracting Officer, promptly and in reasonable written detail, each notice or claim of patent or copyright infringement based on the performance of this Agreement of which the Participant has knowledge.

8. NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (Cont'd)

- B. In the event of any claim or suit against the Government on account of any alleged patent or copyright infringement arising out of the performance of this Agreement or out of the use of any supplies furnished or work or services performed hereunder, the Participant shall furnish to the Government when requested by the Contracting Officer, all evidence and information in possession of the Participant pertaining to such suit or claim. Such evidence and information shall be furnished at the expense of the Government except where the Participant has agreed to indemnify the Government.
 - C. This clause shall be included in all Subcontracts.

9. COMPETITION IN SUBCONTRACTING

The Participant shall select subcontractors (including suppliers) on a competitive basis to the maximum practicable extent consistent with the objectives and requirements of the Agreement.

10. AUDIT AND RECORDS

- A. The Participant shall maintain, and the Contracting Officer or his representative shall have the right to examine books, records, documents, and other evidence and accounting procedures and practices, sufficient to reflect properly all direct and indirect costs of whatever nature claimed to have been incurred and anticipated to be incurred for the performance of this Agreement. Such right of examination shall include inspection at all reasonable times of the Participant's plants, or such parts thereof, as may be engaged in the performance of this Agreement.
- B. The materials described above, shall be made available at the office of the Participant, at all reasonable times, for inspection, audit or reproduction, until the expiration of three (3) years from the date of final payment under this Agreement or such lesser time specified in Title 41, Code of Federal Regulations Part 1-20 and for such lesser period, if any, as is required by applicable statute, or by other clauses of this Agreement, or by subparagraphs B.(1) and (2) below:
 - (1) If this Agreement is completely or partially terminated, the records relating to the work terminated shall be made available for a period of three (3) years from the date of any resulting final settlement.
 - (2) Records which relate to appeals under the "Disputes" clause of this Agreement, or litigation or the settlement of claims arising out of the performance of this Agreement, shall be made available until such appeals, litigation, or claims have been disposed of.

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11. CLEAN AIR AND WATER

[Applicable only if the Agreement exceeds \$10,000 or the Contracting Officer has determined that orders under an indefinite quantity Agreement in any one year will exceed \$100,000 or a facility to be used has been the subject of a conviction under the Clean Air Act [42 U.S.C. 1857c-8(c)(1)] or the Federal Water Pollution Control Act [33 U.S.C. 1319(c)] and is listed by EPA, or the Agreement is not otherwise exempt.]

A. The Participant agrees as follows:

- (1) To comply with all the requirements of Section 114 of the Clean Air Act, as amended (42 U.S.C. 1857, et seq., as amended by Pub. L. 91-604) and section 308 of the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq., as amended by Pub. L. 92-500), respectively, relating to inspection, monitoring, entry, reports, and information, as well as other requirements specified in Section 114 and Section 308 of the Air Act and the Water Act, respectively, and all regulations and guidelines issued thereunder before the award of this Agreement.
- (2) That no portion of the work required by this Agreement will be performed in a facility listed on the Environmental Protection Agency List of Violating Facilities on the date when this Agreement was awarded unless and until the EPA eliminates the name of such facility or facilities from such listing.
- (3) To use its best efforts to comply with clean air standards and clean water standards at the facility in which the Agreement is being performed.
- (4) To insert the substance of the provisions of this clause into any nonexempt subcontract, including this subparagraph A.(4).
- B. The terms used in this clause have the following meanings:
- (1) The term "Air Act" means the Clean Air Act, as amended (42 U.S.C. 1857, et seq., as amended by P. L. 91-604).
- (2) The term "Water Act" means Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by P. L. 92-500).
- (3) The term "clean air standards" means any enforceable rules, regulations, guidelines, standards, limitations, orders, controls, prohibitions, or other requirements which are contained in, issued under, or otherwise adopted pursuant to the Air Act or Executive Order 11738, an applicable implementation plan as described in section 110(d) of the Clean Air Act [42 U.S.C. 1857c-5(d)], an approved implementation procedure or plan under section 111(c) or section 111(d), respectively, of the Air Act [42 U.S.C. 1857(c)-6(c) or (d)], or an approved implementation procedure under section 112(d) of the Air Act [42 U.S.C. 1857c-7(d)].

11. CLEAN AIR AND WATER (Cont'd)

- (4) The term "clean water standards" means any enforceable limitation, control, condition, prohibition, standard, or other requirement which is promulgated pursuant to the Water Act or contained in a permit issued to a discharger by the Environmental Protection Agency or by a State under an approved program, as authorized by section 402 of the Water Act (33 U.S.C. 1342), or by local government to ensure compliance with pretreatment regulations as required by section 307 of the Water Act (33 U.S.C. 1317).
- (5) The term "compliance" means compliance with clean air or water standards. Compliance shall also mean compliance with a schedule or plan ordered or approved by a court of competent jurisdiction, the Environmental Protection Agency or an air or water pollution control agency in accordance with the requirements of the Air Act or Water Act and regulations issued pursuant thereto.
- (6) The term "facility" means any building, plant, installation, structure, mine, vessel, or other floating craft, location, or site of operations, owned, leased, or supervised by a contractor or subcontractor, to be utilized in the performance of an agreement or subcontract. Where a location or site of operations contains or includes more than one building, plant, installation, or structure, the entire location or site shall be deemed to be a facility except where the Director, Office of Federal Activities, Environmental Protection Agency, determines that independent facilities are collocated in one geographical area.

12. PREFERENCE FOR U. S. FLAG AIR CARRIERS

- A. Pub. L. 93-623 requires that all Federal agencies and Government contractors and subcontractors will use U.S. flag air carriers for international air transportation of personnel (and their personal effects) or property to the extent service by such carriers is available. It further provides that the Comptroller General of the United States shall disallow any expenditure from appropriated funds for international air transportation on other than a U.S. flag air carrier in the absence of satisfactory proof of the necessity therefor.
- B. The Participant agrees to utilize U.S. flag air carriers for international air transportation of personnel (and their personal effects) or property to the extent service by such carriers is available.
- C. In the event that the Participant selects a carrier other than a U.S. flag air carrier for international air transportation, he will include a certification on vouchers involving such transportation which is essentially as follows:

CERTIFICATION OF UNAVAILABILITY OF U.S. FLAG AIR CARRIERS

I hereby certify that transportation service for personnel (and their personal effects) or property by certificated air carrier was unavailable for the following reasons: (state reasons).

12. PREFERENCE FOR U. S. FLAG AIR CARRIERS (Cont'd)

- D. The terms used in this clause have the following meanings:
- (1) "International air transportation" means transportation of persons (and their personal effects) or property by air between a place in the United States and a place outside thereof or between two places both of which are outside the United States.
- (2) "U.S. flag air carrier" means one of a class of air carriers holding a certificate of public convenience and necessity issued by the Civil Aeronautics Board, approved by the President, authorizing operations between the United States and/or its territories and one or more foreign countries.
- (3) The term "United States" includes the fifty states, Commonweath of Puerto Rico, possessions of the United States, and the District of Columbia.
- E. The Participant shall include the substance of this clause, including this paragraph E, in each subcontract or purchase hereunder which may involve international air transportation.

13. USE OF U.S. FLAG COMMERCIAL VESSELS

- A. The Cargo Preference Act of 1954 [Pub. L. 664, August 26, 1954, 68 Stat. 832, 46 U.S.C. 1241(b)], requires that Federal departments or agencies shall transport at least 50 percent of the gross tonnage (computed separately for day bulk carriers, dry cargo liners, and tankers) of equipment, materials, or commodities which may be transported on ocean vessels on privately owned United States flag commercial vessels. Such transportation shall be accomplished whenever:
 - (1) Any equipment, materials, or commodities, within or outside the United States, which may be transported by ocean vessel, are:
 - (i) procured, contracted for, or otherwise obtained for the agency's account; or
 - (ii) furnished to or for the account of any foreign nation without provision for reimbursement.
 - (2) Funds or credits are advanced or the convertibility of foreign currencies is guaranteed in connection with furnishing such equipment, materials, or commodities which may be transported by ocean vessel.

Note: This requirement does not apply to small purchases as defined in 41 CFR 1-3.6 or to cargoes carried in the yessels of the Panama Canal Company.

13. USE OF U.S. FLAG COMMERCIAL VESSELS (Cont'd)

- B. The Participant agrees as follows:
- (1) To utilize privately owned United States flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved whenever shipping any equipment, material, or commodities under the conditions set forth in A. above pursuant to this Agreement to the extent such vessels are available at fair and reasonable rates for United States flag commercial vessels.

Note: Guidance regarding fair and reasonable rates for United States flag vessels may be obtained from the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, D.C. 20230, Area Code 202, phone 377-3449.

- (2) To furnish, within 15 working days following the date of loading for shipments originating within the United States or within 25 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill of lading in English for each shipment of cargo covered by the provisions in A. above to both the Contracting Officer (through the prime Participant in the case of subcontractor bills of lading) and to the Division of National Cargo, Officer of Market Development, Maritime Administration, Washington, D.C. 20230.
- (3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this Agreement except for small purchases as defined in 41 CFR 1-3.6.

14. PERMITS AND LICENSES

Except as otherwise directed by the Contracting Officer, the Participant shall procure all necessary permits or licenses and abide by all applicable laws, regulations, and ordinances of the United States and of the State, territory, and political subdivision in which the work under this Agreement is performed.

15. REPORTING OF ROYALTIES

If this Agreement is in an amount which exceeds \$10,000 and if any royalty payments are directly involved in the Agreement or are reflected in the Agreement price to the Government, the Participant agrees to report in writing to the Contracting Officer or Patent Counsel during the performance of this Agreement and prior to its completion or final settlement the amount of any royalties or other payments paid or to be paid by it directly to others in connection with

15. REPORTING OF ROYALTIES (Cont'd)

the performance of this Agreement together with the names and addresses of licensors to whom such payments are made and either the patent numbers involved or such other information as will permit the identification of the patents or other basis on which the royalties are to be paid. The approval of DOE of any individual payments or royalties shall not stop the Government at any time from contesting the enforceability, validity or scope of, or title to, any patent under which a royalty or payments are made.

16. ORDER OF PRECEDENCE

In the event of an inconsistency between the provisions of this Agreement, the inconsistency shall be resolved by giving precedence as follows: (a) schedule; (b) statement of work; (c) the general provisions; (d) other provisions of the Agreement, whether incorporated by reference or otherwise; and (e) Participant's technical proposal, if incorporated in the Agreement by reference or otherwise.

17. AUTHORIZATION AND CONSENT

The Government hereby gives its authorization and consent for all use and manufacture of any invention described in and covered by a patent of the United States in the performance of this Agreement or any part hereof or any amendment hereto or any contract hereunder (including any lower-tier subcontract).

18. CIVIL RIGHTS

No person shall on the ground of race, color, national origin, sex, handicap, or age be excluded from participation in, be denied the benefits of, be subjected to discrimination under, or be denied employment, where the main purpose of the program or activity is to provide employment or when the delivery of program services is affected by the recipient's employment practices, in connection with any program or activity receiving Federal assistance from the DOE.

19. PATENT RIGHTS - LONG FORM

A. Definitions.

- (1) "Subject Invention" means any invention of discovery of the Participant conceived or first actually reduced to practice in the course of or under this Agreement, and includes any art, method, process, machine, manufacture, design, or composition of matter, or any new and useful improvement thereof, or any variety of plants, whether patented or unpatented under the Patent Laws of the United States of America or any foreign country.
- (2) "Contract" means any contract, grant, agreement, understanding or other arrangement, which includes research, development, or demonstration work, and includes any assignment or substitution of parties.

- (4) "Government agency" includes an executive department, independent commission, board, office, agency, administration, authority, Government corporation, or other Government establishment of the Executive Branch of the Government of the United States of America.
- (5) "To the point of practical application" means to manufacture in the case of a composition or product, to practice in the case of a process, or to operate in the case of a machine and under such conditions as to establish that the invention is being worked and that its benefits are reasonably accessible to the public.
- (3) "States and domestic municipal governments" means the States of the United States, the District of Columbia, Puerto Rico, the Virgin Islands, American Samoa, Guam, the Trust Territory of the Pacific Islands, and any political subdivision and agencies thereof.
- (6) "Patent Counsel" means the DOE Patent Counsel assisting the procuring activity.

B. Allocation of Principal Rights.

- (1) Assignment to the Government. The Participant agrees to assign to the Government the entire right, title, and interest throughout the world in and to each Subject Invention except to the extent that rights are retained by the Participant under subparagraph B.(2) and paragraph C. of this clause.
- (2) Greater Rights Determinations. The Participant or the employee-inventor with authorization of the Participant may request greater rights than the nonexclusive license and the foreign patent rights provided in paragraph C. of this clause on identified inventions, in accordance with 41 CFR 9-9.109-6. Such requests must be submitted to Patent Counsel (with notification by Patent Counsel to the Contracting Officer) at the time of the first disclosure pursuant to subparagraph E.(2) of this clause, or not later than nine (9) months after conception or first actual reduction to practice, whichever occurs first, or such longer period as may be authorized by Patent Counsel (with notification by Patent Counsel to the Contracting Officer) for good cause shown in writing by the Participant.

C. Minimum Rights to the Participant.

(1) <u>Participant License</u>. The Participant reserves a revocable, nonexclusive, paid-up license in each patent application filed in any country on a Subject Invention and any resulting patent

in which the Government acquires title. The license shall extend to the Participant's domestic subsidiaries and affiliates, if any, within the corporate structure of which the Participant is a part and shall include the right to grant sublicenses of the same scope to the extent the Participant was legally obligated to do so at the time the Agreement was awarded. The license shall be transferable only with approval of DOE except when transferred to the successor of that part of the Participant's business to which the invention pertains.

- (2) Revocation Limitations. The Participant's nonexclusive license retained pursuant to subparagraph C.(1) of this clause and sublicenses granted thereunder may be revoked or modified by DOE, either in whole or in part, only to the extent necessary to achieve expeditious practical application of the Subject Invention under DOE's published licensing regulations (10 CFR 781), and only to the extent an exclusive license is actually granted. This license shall not be revoked in that field of use and/or the geographical areas in which the Participant, or its sublicensee, has brought the invention to the point of practical application and continues to make the benefits of the invention reasonably accessible to the public, or is expected to do so within a reasonable time.
- (3) Revocation Procedures. Before modification or revocation of the license or sublicense, pursuant to subparagraph C.(2) of this clause, DOE shall furnish the Participant a written notice of its intention to modify or revoke the license and any sublicense thereunder, and the Participant shall be allowed thirty (30) days, or such longer period as may be authorized by the Patent Counsel (with notification by Patent Counsel to the Contracting Officer) for good cause shown in writing by the Participant, after such notice to show cause why the license or any sublicense should not be modified or revoked. The Participant shall have the right to appeal, in accordance with 10 CFR 781, any decision concerning the modification or revocation of its license or any sublicense.
- (4) Foreign Patent Rights. Upon written request to Patent Counsel (with notification by Patent Counsel to the Contracting Officer), in accordance with subparagraph E.(2)(i) of this clause, and subject to DOE security regulations and requirements, there shall be reserved to the Participant, or the employee-inventor with authorization of the Participant, the patent rights to a Subject Invention in any foreign country where the Government has elected not to secure such rights provided:

- (i) The recipient of such rights, when specifically requested by DOE and three (3) years after issuance of a foreign patent disclosing said Subject Invention, shall furnish DOE a report setting forth:
 - (A) The commercial use that is being made, or is intended to be made, of said invention, and
 - (B) The steps taken to bring the invention to the point of practical application or to make the invention available for licensing.
- (ii) The Government shall retain at least an irrevocable, nonexclusive, paid-up license to make, use, and sell the invention throughout the world by or on behalf of the Government (including any Government agency) and States and domestic municipal governments, unless the Secretary or his designee determines that it would not be in the public interest to acquire the license for the States and domestic municipal governments.
- (iii) Subject to the rights granted in subparagraphs C.(1), (2), and (3) of this clause, the Secretary or' his designee shall have the right to terminate the foreign patent rights granted in this subparagraph C.(4) in whole or in part unless the recipient of such rights demonstrates to the satisfaction of the Secretary or his designee that effective steps necessary to accomplish substantial utilization of the invention have been taken or within a reasonable time will be taken.
- (iv) Subject to the rights granted in subparagraphs C.(1), (2), and (3) of this clause, the Secretary or his designee shall have the right, commencing four (4) years after foreign patent rights are accorded under this subparagraph C.(4), to require the granting of a nonexclusive or partially exclusive license to a responsible applicant or applicants, upon terms reasonable under the circumstances and in appropriate circumstances to terminate said foreign patent rights in whole or in part, following a hearing upon notice thereof to the public, upon a petition by an interested person justifying such hearing:
 - (A) If the Secretary or his designee determines, upon review of such material as he deems relevant, and after the recipient of such rights, or other interested person, has had the opportunity to provide such relevant

and material information as the Secretary or his designee may require, that such foreign patent rights have tended substantially to lessen competition or to result in undue market concentration in any section of the United States in any line of commerce to which the technology relates; or

(B) Unless the recipient of such rights demonstrates to the satisfaction of the Secretary or his designee at such hearing that the recipient has taken effective steps, or within a reasonable time thereafter is expected to take such steps, necessary to accomplish substantial utilization of the invention.

D. Filing of Patent Applications.

- (1) With respect to each Subject Invention in which the Participant or the inventor requests foreign patent rights in accordance with subparagraph C.(4) of this clause, a request may also be made for the right to file and prosecute the U.S. application on behalf of the U.S. Government. If such request is granted, the Participant or inventor shall file a domestic patent application on the invention within six (6) months after the request for foreign patent rights is granted, or such longer period of time as may be approved by the Patent Counsel for good cause shown in writing by the requester. With respect to the invention, the requester shall promptly notify the Patent Counsel (with notification by Patent Counsel to the Contracting Officer) of any decision not to file an application.
- (2) For each Subject Invention on which a domestic patent application is filed by the Participant or inventor, the Participant or inventor shall:
 - (i) Within two (2) months after the filing or within two (2) months after submission of the invention disclosure if the patent application previously has been filed, deliver to the Patent Counsel a copy of the application as filed including the filing date and serial number;
 - (ii) Within six (6) months after filing the application or within six (6) months after submitting the invention disclosure if the application has been filed previously, deliver to the Patent Counsel a duly executed and approved assignment to the Government, on a form specified by the Government;

- (iii) Provide the Patent Counsel with the original patent grant promptly after a patent is issued on the application; and
- (iv) Not less than thirty (30) days before the expiration of the response period for any action required by the Patent and Trademark Office, notify the Patent Counsel of any decision not to continue prosecution of the application.
- (3) With respect to each Subject Invention in which the Participant or inventor has requested foreign patent rights, the Participant or inventor shall file a patent application on the invention in each foreign country in which such request is granted in accordance with applicable statutes and regulations and within one of the following periods:
 - (i) Eight (8) months from the date of filing a corresponding United States application, or if such an application is not filed, six (6) months from the date the request was granted;
 - (ii) Six (6) months from the date a license is granted by the Commissioner of Patents and Trademarks to file the foreign patent application where such filing has been prohibited by security reasons; or
 - (iii) Such longer periods as may be approved by the Patent Counsel for good cause shown in writing by the Participant or inventor.
- (4) Subject to the license specified in subparagraphs C.(1), (2) and (3) of this clause, the Participant or inventor agrees to convey to the Government, upon request, the entire right, title, and interest in any foreign country in which the Participant or inventor fails to have a patent application filed in accordance with subparagraph D.(3) of this clause, or decides not to continue prosecution or to pay any maintenance fees covering the invention. To avoid forfeiture of the patent application or patent the Participant or inventor shall, not less than sixty (60) days before the expiration period for any action required by any Patent Office, notify the Patent Counsel of such failure or decision, and deliver to the Patent Counsel the executed instruments necessary for the conveyance specified in this paragraph.

E. Invention Identification, Disclosures, and Reports.

- (1) The Participant shall establish and maintain active and effective procedures to ensure that Subject Inventions are promptly identified and timely disclosed. These procedures shall include the maintenance of laboratory notebooks or equivalent records and any other records that are reasonably necessary to document the conception and/or the first actual reduction to practice of Subject Inventions, and records which show that the procedures for identifying and disclosing the inventions are followed. Upon request, the Participant shall furnish the Contracting Officer a description of these procedures so that he may evaluate and determine their effectiveness.
- (2) The Participant shall furnish the Patent Counsel (with notification by Patent Counsel to the Contracting Officer) on a DOE-approved form:
 - (i) A written report containing full and complete technical information concerning each Subject Invention within six (6) months after conception or first actual reduction to practice whichever occurs first in the course of or under this Agreement, but in any event prior to any on sale, public use or public disclosure of such invention known to the Participant. The report shall identify the Agreement and inventor and shall be sufficiently complete in technical detail and appropriately illustrated by sketch or diagram to convey to one skilled in the art to which the invention pertains a clear understanding of the nature, purpose, operation, and to the extent known, the physical, chemical, biological, or electrical characteristics of the invention. The report should also include any request for foreign patent rights under subparagraph C.(4) of this clause and any request to file a domestic patent application under subparagraph D.(1) of this clause. However, such requests shall be made within the period set forth in subparagraph B.(2) of this clause. When an invention is reported under this subparagraph E.(2)(i), it shall be presumed to have been made in the manner specified in Section 9(a)(1) and (2) of 42 U.S.C. 5908 unless the Participant contends it was not so made in accordance with subparagraph G.(2)(ii) of this clause.
 - (ii) Upon request, but not more than annually, interim reports on a DOE-approved form listing Subject Inventions and subcontracts awarded containing a Patent Rights article for that period and certifying that:
 - (A) The Participant's procedures for identifying and disclosing Subject Inventions as required by this paragraph E. have been followed throughout the reporting period;

- (B) All Subject Inventions have been disclosed or that there are no such inventions; and
- (C) All subcontracts containing a Patent Rights clause have been reported or that no such subcontracts have been awarded.
- (iii) A final report on a DOE-approved form within three (3) months after completion of the Agreement work listing all Subject Inventions and all subcontracts awarded containing a Patent Rights clause and certifying that:
 - (A) All Subject Inventions have been disclosed or that there were no such inventions; and
 - (B) All subcontracts containing a Patent Rights article have been reported or that no such subcontracts have been awarded.
- (3) The Participant shall obtain patent agreements to effectuate the provisions of this clause from all persons in its employ who perform any part of the work under this Agreement except nontechnical personnel, such as clerical employees and manual laborers.
- (4) The Participant agrees that the Government may duplicate and disclose Subject Invention disclosures and all other reports and papers furnished or required to be furnished pursuant to this clause. If the Participant is to file a foreign patent application on a Subject Invention, the Government agrees, upon written request, to use its best efforts to withhold publication of such invention disclosures until the expiration of the time period specified in subparagraph D.(1) of this clause, but in no event shall the Government or its employees be liable for any publication thereof.
- F. <u>Publication</u>. It is recognized that during the course of the work under this Agreement, the Participant or its employees may from time to time desire to release or publish information regarding scientific or technical developments conceived or first actually reduced to practice in the course of or under this Agreement. In order that public disclosure of such information will not adversely affect the patent interests of DOE or the Participant, patent approval for release or publication shall be secured from Patent Counsel prior to any such release or publication.

G. Forfeiture of Rights in Unreported Subject Inventions.

(1) The Participant shall forfeit to the Government, at the request of the Secretary or his designee, all rights in any

Subject Invention which the Participant fails to report to Patent Counsel (with notification by Patent Counsel to the Contracting Officer) within six (6) months after the time the Participant:

- (i) Files or causes to be filed a United States or foreign patent application thereon; or
- (ii) Submits the final report required by subparagraph E.(2)(iii) of this clause, whichever is later.
- (2) However, the Participant shall not forfeit rights in a Subject Invention if, within the time specified in (1)(i) or (1)(ii) of this paragraph G., the Participant:
 - (i) Prepares a written decision based upon a review of the record that the invention was neither conceived nor first actually reduced to practice in the course of or under the Agreement and delivers the same to Patent Counsel (with notification by Patent Counsel to the Contracting Officer); or
 - (ii) Contending that the invention is not a Subject Invention the Participant nevertheless discloses the invention and all facts pertinent to this contention to the Patent Counsel (with notification by Patent Counsel to the Contracting Officer); or
 - (iii) Establishes that the failure to disclose did not result from the Participant's fault or negligence.
- (3) Pending written assignment of the patent applications and patents on a Subject Invention determined by the Secretary or his designee to be forfeited (such determination to be a final decision under the "Disputes" clause of this Agreement), the Participant shall be deemed to hold the invention and the patent applications and patents pertaining thereto in trust for the Government. The forfeiture provision of this paragraph G. shall be in addition to and shall not supersede other rights and remedies which the Government may have with respect to Subject Inventions.

H. Examination of Records Relating to Inventions.

(1) The Contracting Officer or his authorized representative, until the expiration of three (3) years after final payment under this Agreement, shall have the right to examine any books (including laboratory notebooks), records, documents, and other supporting data

of the Participant which the Contracting Officer or his authorized representative reasonably deems pertinent to the discovery or identification of Subject Inventions or to determine compliance with the requirements of this clause.

- (2) The Contracting Officer or his authorized representative shall have the right to examine all books (including laboratory notebooks), records and documents of the Participant relating to the conception of first actual reduction to practice of inventions in the same field of technology as the work under this Agreement to determine whether any such inventions are Subject Inventions, if the Participant refuses or fails to:
 - (i) Establish the procedures of subparagraph E.(1) of this clause; or
 - (ii) Maintain and follow such procedures; or
 - (iii) Correct or eliminate any material deficiency in the procedures within thirty (30) days after the Contracting Officer notifies the Participant of such a deficiency.

Withholding of Payment (Not Applicable to Subcontracts).

- (1) Any time before final payment of the amount of this Agreement, the Contracting Officer may, if he deems such action warranted, withhold payment until a reserve not exceeding \$50,000 or 5 percent of the amount of this Agreement, whichever is less, shall have been set aside if in his opinion the Participant fails to:
 - (i) Establish, maintain and follow effective procedures for identifying and disclosing Subject Inventions pursuant to subparagraph E.(1) of this clause; or
 - (ii) Disclose any Subject Invention pursuant to subparagraph E.(2)(i) of this clause; or
 - (iii) Deliver the interim reports pursuant to subparagraph E.(2)(ii) of this clause; or
 - (iv) Provide the information regarding subcontracts pursuant to subparagraph J.(5) of this clause; or
 - (v) Convey to the Government in a DOE-approved form the title and/or rights of the Government in each Subject Invention as required by this clause.

- (2) The reserve or balance shall be withheld until the Contracting Officer has determined that the Participant has rectified whatever deficiencies exist and has delivered all reports, disclosures, and other information required by the clause.
- (3) Final payment under this Agreement shall not be made by the Contracting Officer before the Participant delivers to Patent Counsel all disclosures of Subject Inventions and other information required by subparagraph E.(2)(i) of this clause, the final report required by subparagraph E.(2)(iii) of this clause, and Patent Counsel has issued a patent clearance certification to the Contracting Officer.
- (4) The Contracting Officer may, in his discretion, decrease or increase the sums withheld up to the maximum authorized above. If the Participant is a nonprofit organization, the maximum amount that may be withheld under this paragraph shall not exceed \$50,000 or 1 percent of the amount of this Agreement, whichever is less. No amount shall be withheld under this paragraph while the amount specified by this paragraph is being withheld under other provisions of the Agreement. The withholding of any amount or subsequent payment thereof shall not be construed as a waiver of any rights accruing to the Government under this Agreement.

J. Subcontracts.

- (1) For the purpose of this paragraph the term "Participant" means the party awarding a subcontract and the term "subcontractor" means the party being awarded a subcontract, regardless of tier.
- (2) Unless otherwise authorized or directed by the Contracting Officer, the Participant shall include the Patent Rights clause of 41 CFR 9-9.107-5(a) or 41 CFR 9-9.107-6 as appropriate, modified to identify the parties in any subcontract hereunder having as a purpose the conduct of research, development, or demonstration work. In the event of refusal by a subcontractor to accept this clause, or if in the opinion of the Participant this clause is inconsistent with DOE's patent policies, the Participant:
 - (i) Shall promptly submit written notice to the Contracting Officer setting forth reasons for the subcontractor's refusal and other pertinent information which may expedite disposition of the matter; and
 - (ii) Shall not proceed with the subcontract without the written authorization of the Contracting Officer.

- (3) Except as may be otherwise provided in this clause, the Participant shall not, in any subcontract or by using a subcontract as consideration therefor, acquire any rights in its subcontractor's Subject Invention for the Participant's own use (as distinguished from such rights as may be required solely to fulfill the Participant's Agreement obligations to the Government in the performance of this Agreement).
- (4) All invention disclosures, reports, instruments, and other information required to be furnished by the subcontractor to DOE, under the provisions of a Patent Rights clause in any subcontract hereunder may, in the discretion of the Contracting Officer, be furnished to the Participant for transmission to DOE.
- (5) The Participant shall promptly notify the Contracting Officer in writing upon the award of any subcontract containing a Patent Rights clause by identifying the subcontractor, the work to be performed under the subcontract, and the dates of award, and estimated completion. Upon the request of the Contracting Officer the Participant shall furnish him a copy of the subcontract.
- (6) The Participant shall identify all Subject Inventions of the subcontractor of which it acquires knowledge in the performance of this Agreement and shall notify the Patent Counsel (with notification by Patent Counsel to the Contracting Officer) promptly upon the identification of the inventions.
- (7) It is understood that the Government is a third party beneficiary of any subcontract clause granting rights to the Government in Subject Inventions, and the Participant hereby assigns to the Government all rights that the Participant would have to enforce the subcontractor's obligations for the benefit of the Government with respect to Subject Inventions. The Participant shall not be obligated to enforce the agreements of any subcontractor hereunder relating to the obligations of the subcontractor to the Government regarding Subject Inventions.

K. Background Patents.

(1) "Background Patent" means a domestic patent covering an invention or discovery which is not a Subject Invention and which is owned or controlled by the Participant at any time through the completion of this Agreement:

19. PATENT RIGHTS - LONG FORM (Cont'd)

- (i) Which the Participant, but not the Government, has the right to license to others without obligation to pay royalties thereon; and
- (ii) Infringement of which cannot reasonably be avoided upon the practice of any specific process, method, machine, manufacture or composition of matter (including relatively minor modifications thereof) which is a subject of the research, development, or demonstration work performed under this Agreement.
- (2) The Participant agrees to and does hereby grant to the Government a royalty-free, nonexclusive, license under any Background Patent for purposes of practicing a subject of this Agreement by or for the Government in research, development, and demonstration work only.
- (3) The Participant also agrees that upon written application by DOE, it will grant to responsible parties for purposes of practicing a subject of this Agreement, nonexclusive licenses under any Background Patent on terms that are reasonable under the circumstances. If, however, the Participant believes that exclusive or partially exclusive rights are necessary to achieve expeditious commercial development or utilization, then a request may be made to DOE for DOE approval of such licensing by the Participant.
- (4) Notwithstanding the foregoing subparagraph K.(3), the Participant shall not be obligated to license any Background Patent if the Participant demonstrates to the satisfaction of the Secretary or his designee that:
 - (i) A competitive alternative to the subject matter covered by said Background Patent is commercially available or readily introducible from one or more other sources; or
 - (ii) The Participant or its licensees are supplying the subject matter covered by said Background Patent in sufficient quantity and at reasonable prices to satisfy market needs, or have taken effective steps or within a reasonable time are expected to take effective steps to so supply the subject matter.

L. Atomic Energy.

(1) No claim for pecuniary award or compensation under the provisions of the Atomic Energy Act of 1954, as amended, shall be

19. PATENT RIGHTS - LONG FORM (Cont'd)

asserted by the Participant or its employees with respect to any invention or discovery made or conceived in the course of or under this Agreement.

- (2) Except as otherwise authorized in writing by the Contracting Officer, the Participant will obtain patent agreements to effectuate the provisions of subparagraph L.(1) of this clause from all persons who perform any part of the work under this Agreement, except nontechnical personnel, such as clerical employees and manual laborers.
- M. <u>Limitation of Rights</u>. Nothing contained in this Patent Rights clause shall be deemed to give the Government any rights with respect to any invention other than a Subject Invention except as set forth in the Patent Rights article of this Agreement with respect to Background Patents and the Facilities License.

20. ADDITIONAL TECHNICAL DATA REQUIREMENTS

- A. In addition to the technical data specified elsewhere in this Agreement to be delivered, the Contracting Officer may at any time during the Agreement performance or within one (1) year after final payment call for the Participant to deliver any technical data first produced or specifically used in the performance of this Agreement except technical data pertaining to items of standard commercial design.
- B. The provisions of the "Rights in Technical Data" clause included in this Agreement are applicable to all technical data called for under this Additional Technical Data Requirements clause. Accordingly, nothing contained in this clause shall require the Participant to actually deliver any technical data, the delivery of which is excused by paragraph E. of the "Rights in Technical Data" clause.
- C. When technical data are to be delivered under this clause, the Participant will be compensated for appropriate costs for converting such data into the prescribed form, for reproduction, and for delivery.

21. RIGHTS IN TECHNICAL DATA - LONG FORM

A. Definitions.

(1) "Technical Data" means recorded information regardless of form or characteristic, of a scientific or technical nature. It may, for example, document research, experimental, developmental, or demonstration, or engineering work, or be usable or used to define a design or process, or to procure, produce, support, maintain, or operate material. The data may be graphic or

21. RIGHTS IN TECHNICAL DATA - LONG FORM (Cont'd)

pictorial delineations in media such as drawings or photographs, text in specifications or related performance or design type documents or computer software (including computer programs, computer software data bases, and computer software documentation). Examples of technical data include research and engineering data, engineering drawings and associated lists, specifications, standards, process sheets, manuals, technical reports, catalog item identification, and related information. Technical data as used herein does not include financial reports, cost analyses, and other information incidental to Agreement administration.

- (2) "Proprietary Data" means technical data which embody trade secrets developed at private expense, such as design 'procedures or techniques, chemical composition of materials, or manufacturing methods, processes, or treatments, including minor modifications thereof, provided that such data:
 - (i) Are not generally known or available from other sources without obligation concerning their confidentiality;
 - (ii) Have not been made available by the owner to others without obligation concerning its confidentiality; and
 - (iii) Are not already available to the Government without obligation concerning their confidentiality.
- (3) "Contract Data" means technical data first produced in the performance of the Agreement, technical data which are specified to be delivered in the Agreement, technical data that may be called for under the "Additional Technical Data Requirements" clause of the Agreement, if any, or technical data actually delivered in connection with the Agreement.
- (4) "Unlimited Rights" means rights to use, duplicate, or disclose technical data, in whole or in part, in any manner and for any purpose whatsoever, and to permit others to do so.

B. Allocation of Rights.

- (1) The Government shall have:
- (i) Unlimited rights in contract data except as otherwise provided below with respect to proprietary data.

21. RIGHTS IN TECHNICAL DATA - LONG FORM (Cont'd)

- (ii) The right to remove, cancel, correct or ignore any marking not authorized by the terms of this Agreement on any technical data furnished hereunder, if in response to a written inquiry by DOE concerning the propriety of the markings, the Participant fails to respond thereto within sixty (60) days or fails to substantiate the propriety of the markings. In either case DOE will notify the Participant of the action taken.
- (iii) No rights under this Agreement in any technical data which are not Agreement data.
- (2) The Participant shall have:
- (i) The right to withhold proprietary data in accordance with the provisions of this clause.
- (ii) The right to use for its private purposes, subject to patent, security or other provisions of this Agreement, contract data it first produces in the performance of this Agreement provided the data requirements of this Agreement have been met as of the date of the private use of such data. The Participant agrees that to the extent it receives or is given access to proprietary data or other technical, business or financial data in the form of recorded information from DOE or a DOE contractor or subcontractor, the Participant shall treat such data in accordance with any restrictive legend contained thereon, unless use is specifically authorized by prior written approval of the Contracting Officer.
- (3) Nothing contained in this "Rights in Technical Data" clause shall imply a license to the Government under any patent or be construed as affecting the scope of any licenses or other rights otherwise granted to the Government under any patent.

C. Copyrighted Material.

(1) The Participant shall not, without prior written authorization of the Contracting Officer, establish a claim to statutory copyright in any Agreement data first produced in the performance of the Agreement. To the extent such authorization is granted, the Government reserves for itself and others acting on its behalf a royalty-free, nonexclusive, irrevocable, worldwide license for Governmental purposes to publish, distribute,

21. RIGHTS IN TECHNICAL DATA - LONG FORM (Cont'd)

translate, duplicate, exhibit and perform any such data copyrighted by the Participant.

- (2) The Participant agrees not to include in the technical data delivered under the Agreement any material copyrighted by the Participant and not to knowingly include any material copyrighted by others without first granting or obtaining at no cost a license therein for the benefit of the Government of the same scope as set forth in subparagraph C.(1) above. If such royalty-free license is unavailable and the Participant nevertheless determines that such copyrighted material must be included in the technical data to be delivered, rather than merely incorporated therein by reference, the Participant shall request the written authorization of the Contracting Officer to include such copyrighted material in the technical data without a license.
- D. <u>Subcontracting</u>. It is the responsibility of the Participant to obtain from its contractors technical data and rights therein, on behalf of the Government, necessary to fulfill the Participant's obligations to the Government with respect to such data. In the event of refusal by a subcontractor to accept an article affording the Government such rights, the Participant shall:
 - (1) Promptly submit written notice to the Contracting Officer setting forth reasons for the subcontractor's refusal and other pertinent information which may expedite disposition of the matter; and
 - (2) Not proceed with the contract without the written authorization of the Contracting Officer.
- E. <u>Withholding of Proprietary Data</u>. Notwithstanding the inclusion of the "Additional Technical Data Requirements" clause in this Agreement or any provision of this Agreement specifying the delivery of technical data, the Participant may withhold proprietary data from delivery, provided that the Participant furnishes in lieu of any such proprietary data, so withheld technical data disclosing the source, size, configuration, mating and attachment characteristics, functional characteristics and performance requirements ("Form, Fit and Function" data, e.g., specification control drawings, catalog sheets, envelope drawings, etc.) or a general description of such proprietary data where "Form, Fit and Function" data are not applicable. The Government shall acquire no rights to any proprietary data so withheld except that such data shall be subject to the "Inspection Rights" provisions of paragraph F., and if included, the "Limited Rights in Proprietary Data" provisions of paragraph G. and the "Participant Licensing" provisions of paragraph H.

21. RIGHTS IN TECHNICAL DATA - LONG FORM (Contid)

F. Inspection Rights. Except as may be otherwise specified in this Agreement for specific items of proprietary data which are not subject to this paragraph, the Contracting Officer's representatives, at all reasonable times up to three (3) years after final payment under this Agreement, may inspect at the Participant's facility any proprietary data withheld under paragraph E. and not furnished under paragraph G. for the purposes of verifying that such data properly fell within the withholding provision of paragraph E., or for evaluating work performance.

22. PATENT INDEMNITY

The Participant shall indemnify the Government and its officers, agents, and employees against liability, including costs, for infringement of U.S. Letters Patent (except U.S. Letters Patent issued upon an application which is now or may hereafter be kept secret or otherwise withheld from issue by order of the Government) resulting from the Participant's: (a) furnishing or supplying standard parts or components which have been sold or offered for sale to the public on the commercial open market; or (b) utilizing its normal practices or methods which normally are or have been used in providing goods and services in the commercial open market, in the performance of the Agreement; or (c) utilizing any parts, components, practices, or methods to the extent to which the Participant has secured indemnification from liability. The foregoing indemnity shall not apply unless the Participant shall have been informed as soon as practicable by the Government of the suit or action alleging such infringement, and shall have been given such opportunity as is afforded by applicable laws, rules, or regulations to participate in the defense thereof; and further, such indemnity shall not apply to a claimed infringement which is settled without the consent of the Participant, unless required by final decree of a court of competent jurisdiction or to an infringement resulting from addition to or change in such supplies or components furnished or construction work performed for which addition or change was made subsequent to delivery or performance by the Participant.

23. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION

[This Agreement, to the extent that it is of a character specified in the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333), is subject to the following provisions and to all other applicable provisions and exceptions of such Act and the regulations of the Secretary of Labor thereunder.]

23. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION (Cont'd)

- A. Overtime Requirements. The Participant or contractor contracting for any part of the Agreement work, which may require or involve the employment of laborers, mechanics, apprentices, trainees, watchmen, and guards, shall require or permit any laborer, mechanic, apprentice, trainee, watchman, or guard, in any workweek in which he is employed on such work, to work in excess of eight (8) hours in any calendar day, or in excess of forty (40) hours in such workweek, on work subject to the provisions of the Contract Work Hours and Safety Standards Act, unless such laborer, mechanic, apprentice, trainee, watchman, or guard receives compensation at a rate not less than one and one-half times his basic rate of pay for all such hours worked in excess of eight (8) hours in any calendar day, or in excess of forty (40) hours in such workweek, whichever is the greater number of overtime hours.
- B. Violation; Liability for Unpaid Wages; Liquidated Damages. In the event of any violation of the provisions of paragraph A., the Participant and any contractor responsible therefor shall be liable to any affected employee for his unpaid wages. In addition, such Participant and contractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, apprentice, trainee, watchman, or guard employed in violation of the provisions of paragraph A. in the sum of \$10 for each calendar day on which such employee was required or permitted to be employed on such work in excess of eight (8) hours or in excess of his standard workweek of forty (40) hours without payment of the overtime wages required by paragraph A.
- C. Withholding for Unpaid Wages and Liquidated Damages. The Contracting Officer may withhold from the Government Prime Participant, from any moneys payable on account of work performed by the Participant or contractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such Participant or contractor for unpaid wages and liquidated damages as provided in the provisions of paragraph B.
- D. <u>Subcontracts</u>. The Participant shall insert paragraphs A. through D. of this clause in all subcontracts, and shall require their inclusion in all subcontracts of any tier.
- E. Records. The Participant shall maintain payroll records containing the information specified in 29 CFR 516.2(a). Such records shall be preserved for three (3) years from the completion of the Agreement.

24. FLOOD INSURANCE

The Participant shall comply with the flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973, Public Law 93-234, 87 Stat. 975, approved December 31, 1976, Section 102(a) requires, on and after March 2, 1975, the Purchase of flood insurance in communities where such insurance is available as a condition for the receipt of any Federal

24. FLOOD INSURANCE (Cont'd)

financial assistance for construction or acquisition purposes for use in any area that has been identified by the Secretary of the Department of Housing and Urban Development as an area having special flood hazards and provisions prescribed by the Federal Insurance Administration in 24 CFR Chapter X, Subchapter B., will be complied with.

ADDITIONAL GENERAL PROVISIONS

25. DISPUTES

- A. This Agreement is subject to the Contract Disputes Act of 1978 (Pub. L. 95-563).
- B. Except as provided in the Act, all disputes arising under or relating to this Agreement shall be resolved in accordance with this clause.
 - C. (1) As used herein, "claim" means a written demand or assertion by one of the parties seeking, as a legal right, the payment of money, adjustment or interpretation of agreement terms, or other relief, arising under or relating to this Agreement.
 - (2) A voucher, invoice, or request for payment that is not in dispute when submitted is not a claim for the purposes of the Act. However, where such submission is subsequently not acted upon in a reasonable time, or disputed either as to liability or amount, it may be converted to a claim pursuant to the Act.
 - (3) A claim by the Participant shall be made in writing and submitted to the Contracting Officer for decision. A claim by the Government against the Participant shall be subject to a decision by the Contracting Officer.
- D. For Participant claims of more than \$50,000, the Participant shall submit with the claim a certification that the claim is made in good faith; the supporting data are accurate and complete to the best of the Participant's knowledge and belief; and the amount requested accurately reflects the agreement adjustment for which the Participant believes the Government is liable. The certification shall be executed by the Participant, if an individual. When the Participant is not an individual, the certification shall be executed by a senior company official in charge at the Participant's plant or location involved, or by an officer or general partner of the Participant having overall responsibility for the conduct of the Participant's affairs.
- E. For Participant claims of \$50,000 or less, the Contracting Officer must render a decision within 60 days. For Participant claims in excess of \$50,000, the Contracting Officer must decide the claim within 60 days or notify the Participant of the date when the decision will be made.

25. DISPUTES

- F. The Contracting Officer's decision shall be final unless the Participant appeals or files a suit as provided in the Act.
- G. The authority of the Contracting Officer under the Act does not extend to claims or disputes which by statute or regulation other agencies are expressly authorized to decide.
- H. Interest on the amount found due on a Participant claim shall be paid from the date the claim is received by the Contracting Officer until the date of payment.
- I. Except as the parties may otherwise agree, pending final resolution of a claim by the Participant arising under the contract, the Participant shall proceed diligently with the performance of the Agreement in accordance with the Contracting Officer's decision.

26. UTILIZATION OF LABOR SURPLUS AREA CONCERNS

(The following clause is applicable if this Agreement exceeds \$10,000.00)

- A. It is the policy of the Government to award contracts to labor surplus area concerns that agree to perform substantially in labor surplus areas, where this can be done consistent with the efficient performance of the Agreement and at prices no higher than are obtainable elsewhere. The Participant agrees to use its best efforts to place its subcontracts in accordance with this policy.
- B. In complying with paragraph A. of this clause and with paragraph B. of the clause of this Agreement entitled "Utilization of Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals," the Participant in placing its subcontracts shall observe the following order of preference: (1) Small business concerns that are labor surplus area concerns, (2) other small business concerns, and (3) other labor surplus area concerns.
 - C. (1) The term "labor surplus area" means a geographical area identified by the Department of Labor as an area of concentrated unemployment or underemployment or an area of labor surplus.
 - (2) The term "labor surplus area concern" means a concern that together with its first-tier subcontractors will perform substantially in labor surplus areas.
 - (3) The term "perform substantially in a labor surplus area" means that the costs incurred on account of manufacturing, production, or appropriate services in labor surplus areas exceed 50 percent of the Agreement price.

27. LABOR SURPLUS AREA SUBCONTRACTING PROGRAM

- A. The Participant agrees to establish and conduct a program which will encourage labor surplus area concerns to compete for subcontracts within their capabilities. In this connection, the Participant shall:
 - (1) Designate a liaison officer who will (a) maintain liaison with duly authorized representatives of the Government on labor surplus area matters, (b) supervise compliance with the "Utilization of Labor Surplus Area Concerns" clause and (c) administer the Contractor's Labor Surplus Area Subcontracting Program;
 - (2) Provide adequate and timely consideration of the potentialities of labor surplus area concerns in all "make-or-buy" decisions;
 - (3) Assure that labor surplus area concerns will have an equitable opportunity to compete for subcontracts, particularly by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation of labor surplus area concerns;
 - (4) Maintain records showing the procedures which have been adopted to comply with the policies set forth in this clause and report subcontract awards (see 41 CFR 1-16.804-5 regarding use of Optional Form 61). Records maintained pursuant to this clause will be kept available for review by the Government until the expiration of one (1) year after the award of this contract, or for such longer period as may be required by any other clause of this contract or by applicable law or regulations; and
 - (5) Include the "Utilization of Labor Surplus Area Concerns" clause in subcontracts which offer substantial labor surplus area subcontracting opportunities.
 - B. (1) The term "labor surplus area" means a geographical area identified by the Department of Labor as an area of concentrated unemployment or underemployment or an area of labor surplus.
 - (2) The term "concern located in a labor surplus area" means a labor surplus area concern.
 - (3) The term "labor surplus area concern" means a concern that, together with its first-tier subcontractors, will perform substantially in labor surplus areas.
 - (4) The term "perform substantially in labor surplus areas" means that the costs incurred on account of manufacturing, production, or appropriate services in labor surplus areas exceed 50 percent of the contract price.

27. LABOR SURPLUS AREA SUBCONTRACTING PROGRAM (Cont'd)

C. The Participant further agrees to insert, in any subcontract hereunder which may exceed \$500,000.00 and which contains the "Utilization of Labor Surplus Area Concerns" clause, provisions which shall conform substantially to the language of this clause, including this paragraph C., and to notify the Contracting Officer of the names of such subcontractors.

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28. BUY AMERICAN ACT

- A. In acquiring end products, the Buy American Act (41 U.S. Code 10a-10d) provides that the Government give preference to domestic source end products. For the purpose of this clause:
 - (1) "Components" means those articles, materials, and supplies which are directly incorporated in the end products;
 - (2) "End products" means those articles, materials, and supplies which are to be acquired under this contract for public use; and
 - (3) "A domestic source end product" means (i) an unmanufactured end product which has been mined or produced in the United States, and (ii) an end product manufactured in the United States if the cost of the components thereof which are mined, produced, or manufactured in the United States exceeds 50 percent of the costs of all its components. For the purpose of this subparagraph (a)(3)(ii), components of foreign origin of the same type or kind as the products referred to in subparagraphs (b)(2) or (3) of this clause shall be treated as components mined, produced, or manufactured in the United States.
- B. The Participant agrees to give preference in all purchases under this Cooperative Agreement to domestic source end products.

29. UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL BUSINESS CONCERNS OWNED AND CONTROLLED BY SOCIALLY AND ECONOMICALLY DISADVANTAGED INDIVIDUALS

- A. It is the policy of the United States and the Department of Energy that small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals shall have the maximum practicable opportunity to participate in the performance of contracts let by DOE.
- B. The Participant hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with the efficient performance of this Agreement. The Participant further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the Department of Energy as may be necessary to determine the extent of the Participant's compliance with this clause.

- 29. UTILIZATION OF SMALL BUSINESS CONCERNS AND SMALL BUSINESS CONCERNS
 OWNED AND CONTROLLED BY SOCIALLY AND ECONOMICALLY DISADVANTAGED
 INDIVIDUALS (Cont'd)
- C. As used in this Agreement, the term "small business concern" shall mean a small business as defined pursuant to Section 3 of the Small Business Act (15 U.S.C. 632) and relevant regulations promulgated pursuant thereto, including §1-1.701 of the Federal Procurement Regulations. The term "small business concern owned and controlled by socially and economically disadvantaged individuals" shall mean a small business concern:
 - (1) Which is at least 51 per centum owned by one or more socially and economically disadvantaged individuals; or in the case of any publicly-owned business at least 51 per centum of the stock of which is owned by one or more socially and economically disadvantaged individuals; and
 - (2) Whose management and daily business operations are controlled by one or more of such individuals.

The Participant shall presume that socially and economically disadvantaged individuals include Black Americans, Hispanic Americans, Native Americans and other minorities, or any other individual found to be disadvantaged by the Small Business Administration pursuant to Section 8(a) of the Small Business Act.

- D. Participants acting in good faith may rely on written representations by their subcontractors regarding their status as either a small business concern or a small business concern owned and controlled by socially and economically disadvantaged individuals.
- 30. SUBCONTRACTING PLAN FOR SMALL BUSINESS CONCERNS AND SMALL BUSINESS CONCERNS OWNED AND CONTROLLED BY SOCIALLY AND ECONOMICALLY DISADVANTAGED INDIVIDUALS
- A. The Participant agrees to comply in good faith with the small business and small disadvantaged business concerns subcontracting plan approved by the Contracting Officer which is hereby incorporated in and made a part of this Cooperative Agreement. In this connection, the Contractor shall:
 - (1) Use its best effort to attain such percentage goals as may be set forth in the plan.
 - (2) Designate an individual who will: (i) maintain liaison with the Government on matters relating to small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals; (ii) supervise compliance with the clause entitled "Utilization of Small Business Concerns and Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals" and (iii) administer the Participant's plan.

- 30. SUBCONTRACTING PLAN FOR SMALL BUSINESS CONCERNS AND SMALL BUSINESS CONCERNS
 OWNED AND CONTROLLED BY SOCIALLY AND ECONOMICALLY DISADVANTAGED
 INDIVIDUALS (Cont'd)
 - (3) Provide adequate and timely consideration of the potentialities of small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals in all "make-or-buy" decisions.
 - (4) Assure that small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals will have an equitable opportunity to compete for subcontracts, particularly by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation of such concerns. Where the Participant's lists of potential subcontractors which are small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals are excessively long, reasonable effort shall be made to give all such concerns an opportunity to compete over a period of time.
 - (5) Maintain records showing: (i) whether each prospective subcontractor is a small business concern or a small business concern owned and controlled by socially and economically disadvantaged individuals; (ii) procedures which have been adopted to comply with the plan and the policies set forth in this clause; and (iii) with respect to the letting of any subcontract (including purchase orders) exceeding \$10,000, information substantially as follows:
 - (A) Whether the award went to large business, small business, or small business owned and controlled by socially and economically disadvantaged individuals.
 - (B) Whether small business concerns or small business concerns owned and controlled by socially and economically disadvantaged individuals were solicited.
 - (C) The reason for nonsolicitation of small business concerns or small business concerns owned and controlled by socially and economically disadvantaged individuals if such was the case.
 - (D) The reason for failure of small business concerns or small business concerns owned and controlled by socially and economically disadvantaged individuals to receive the award if such was the case when such firms were solicited.

30. SUBCONTRACTING PLAN FOR SMALL BUSINESS CONCERNS AND SMALL BUSINESS CONCERNS
OWNED AND CONTROLLED BY SOCIALLY AND ECONOMICALLY DISADVANTAGED
INDIVIDUALS (Cont'd)

The records maintained in accordance with (5)(iii) above may be in such form as the Participant may determine, and the information shall be summarized quarterly and submitted by the purchasing department of each individual plant or division to the Participant's cognizant liaison officer for small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals. Such quarterly summaries will be considered to be management records only and need not be submitted routinely to the Government; however, records maintained pursuant to this clause will be kept available for review by the Government until the expiration of one year after the expiration of this contract, or for such longer period as may be required by any other clause of this contract or by applicable law or regulation.

- (6) Notify the Contracting Officer before soliciting bids or quotations on any subcontract (including purchase orders) in excess of \$10,000 if (i) no small business concern or small business concern owned and controlled by socially and economically disadvantaged individuals is to be solicited, and (ii) the Contracting Officer's consent to the subcontract (or ratification) is required by a "Subcontracts" clause in this contract. Such notice will state the Participant's reasons for nonsolicitation of small business concerns or small business concerns owned and controlled by socially and economically disadvantaged individuals and will be given as early in the procurement cycle as possible so that the Contracting Officer may give the Small Business period to suggest potentially qualified small business concerns or small business concerns owned and controlled by socially and economically disadvantaged individuals through the Contracting Officer. In no case will the procurement action be held up when to do so would, in the Participant's judgment, delay performance under the contract.
- (7) Include the "Utilization of Small Business Concerns and Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals" clause in all subcontracts which offer further subcontracting opportunities.
- (8) Cooperate in any studies or surveys of the Participant's subcontracting procedures and practices as may be required by the Department of Energy or the Small Business Administration.

- 30. SUBCONTRACTING PLAN FOR SMALL BUSINESS CONCERNS AND SMALL BUSINESS CONCERNS

 OWNED AND CONTROLLED BY SOCIALLY AND ECONOMICALLY DISADVANTAGED

 INDIVIDUALS (Cont'd)
 - (9) Submit quarterly reports of subcontracting to small business concerns and small business concerns owned and controlled by socially and economically disadvantaged individuals on such forms as may be specified by the Contracting Officer.
- B. The Participant agrees that, in the event it fails to comply in good faith with its contractual obligations concerning the plan or the clause entitled "Utilization of Small Business Concerns and Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals" this Agreement may be terminated, in whole or in part, for default.
- C. The Participant further agrees to insert in all subcontracts hereunder (except those with small business concerns) which contain the article entitled "Utilization of Small Business Concerns and Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals" and which may exceed \$1,000,000 in the case of a subcontract for the construction of any public facility or in excess of \$500,000 in the case of all other subcontracts, provisions which shall conform substantially to the language of this clause, including this paragraph (c), and to notify the Contracting Officer of the names of such subcontractors.
- D. The provisions of this clause shall not apply to small business concerns.

AEROJET NUCLEAR CO 550 SECOND STREET

			IDAHO FALLS	1D	83401
AMOCO PRODUCTION COMPANY DIVISION DANDMAN-FRONTIER			AMOCO PRODUCTION COMPANY ATTN: DIVISION LANDMAN FRO	NTIE	R
DENVER	C 0	80202	DENVER	с0	80202
C F BRAUN AND COMPANY			CITIBANK PETR DEPT 4TH FLOOR		
ALHAMBRA	CA	91802	NEW YORK	NY	10043
1714 POPLAR STREET			DISTRICT GEOTHERMAL OFFICE CONSERVATION DIVISION		
DENVER	сo	80220	SANTA ROSA	CA	95402
EARTH SCIENCE LAB			GEO-HEAT CENTER O I T		
SALT LAKE CITY	UT.	84108	KLAMATH FALLS	OR	97601
GEO-HEAT CENTER O I T			GEOTHERMAL COMMERCIALIZATI P G BOX 4096	O N O	FFICE
KLAMATH FALLS	OR	97601	LARAMIE	WY	82071
GEOTHERMAL RESOURCES IWTL. 4676 ADMIRALTY WAY	INC				
MARINA DEL RAY	CA	9029 1	BAKERSFIELD	C A	93388
IDAHO STATE OFFICE OF ENER STATEHOUSE	6 Y		JOHN GRAHAM & COMPANY ENERGY MANAGEMENT DEPT		
BOISE	ID	83720	SEATTLE .	WA	98101

LAWRENCE LIVERMORE LABS P.O. BOX 5507. L-453			MATERI EXPLORATION P O BOX 515		
LIVERMORE	CA	94550		ùΥ	82730
MEIDAV ASSOCIATES 1419 BROADWAY. SUITE 612			MERCY MEDICA CENTER 1512 12TH AVENUE RD		
OAKLAND	CA	94612	NAMPA	ID:	83651
J D PETROLEUM INVESTMENT CO. 231 WEST 800 SOUTH			D J ABBOTT P C BOX 94		
SALT LAKE CITY	UT	84101.	NAMPA	10	8365 1
			A U.; ADDUCI US DEPARTMENT OF ENERGY 1333 BROADWAY		
1.1		·		٠.	•
			OAKLAND		
B ADKINS SCIENCE APPLICATIONS. INC. 1710 GOODRIDGE DR.			U AHMED TERRA TEK• INC• 420 WAKARA WAY	·.	
MCLEAN	VA	22102	SALT LAKE CITY	IJΤ	84108
R H ALBRECHTSE	N		M ALLDREDGE		
MOUNTAIN STATES RESOURCES 1399 S 7TH EAST			1550 S PEARL STREET		
SALT LAKE CITY		84121	DENVER		80210
	D (*		E. ALLEN ELIOT ALLEN & ASSOC INC. 1257 HIGH STREET. SUITE 7		
HONOLULU	ΗI	:96805	EUGENE	OR	97401
T ALLISON			D-D ALT		
THE BOVARD SUPPLY COMPANY 4290 LONG BEACH BLVD	\		6223 ROUND LAKE RD		
LONG BEACH	CA	90807	KLAMATH FALLS	٥R	97601

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PAGE0003

DR J K

APPLEGATE

2618 ETNA STREET			COLORADO SCHOOL OF MINES GEOPHYSICS RESEARCH		
BERKELEY	CA,	94704	GOLDEN	C O	80401
W S ARCHIBALD			T ARENZ U S NAVAL WEAPONS STATION		
2009 KORKSTOWN AVE			ENSIGN		
FT COLLINS	СО	80526	SEAL BEACH	CA	90740
W A ARMSTRONG VICTOR EXPLORATION 901 N CARANCAHUA #709			R ASHBAUGH RANDY ASHBAUGH INC P C BCX 1183		
CORPUS CHRISTI	ΤX	78401	TRUTH OR CONSEQUENCES	NM	87901
C ASHTON SANDYLAND NURSERY P.O. BOX 546			C . ASPINWALL GEOTHERMAL COMMERICALIZATI P C 80X 4096		
MESILLA PARK	NM	88047	LARAMIE	¥Y	82071
D J ATKINSON		-	R ATKINSON SERRIA PACIFIC POWER CO 100 E MOANA LANE		
2519 HORSESHGE CANYON ROAD)		100 E MOANA LANE		
				ΝE	89510
W H T ATTLESEY OCCIDENTAL PETROLEUM CORP 5000 STOCKDALE HWY			J. C. AUSTIN CH2M HILL 700 CLEARWATER LANE		
BAKERSFIELD	CA	93309	HOISE	ID	83707
R A BABIONE COURY & ASSOCIATES 7625 W. 5TH AVENUE			C F BACON CALIF. DIV. OF MINES & GEO 2815 O STREET		
LAKEWOOD	C 0	80226	SACRAMENTO	C A	95816
D BACON NATIONAL WATER WELL ASSOC. 500 W. WILSON BRIDGE RD.			DE S EAHADUR ACRES AMERICAN INC. 329 CLARK BUILDING		
WORTHINGTON	он	43085	COLUMBIA	MD	21044

LISTING OF MTREGE DRILLING MAILING LIST . PAGE0004

W J BAI	LEY		N R	BAIRD		
ATTORNEY AT LAW			SIERRA COUNTY S 1725 E THIRD	t.NIINEL .		
NAPA	. CA	94558	TRUTH OR CONSEC	UENCES	NM	87901
M S BAK SOLAR ENERGY CENTER UNIVERSITY OF OREGO	r p		T A WKM DIV ACF IND P C BOX 1095	BALMER :		
EUGENE	OR -	97403	SHREVEPORT	· · · · · · · · · · · · · · · · · · ·	LA.	71163
J K BAL BALZHISER/HUBBARD & P O BOX 2687	ZHISER		K L	BARCLAY	·.	3.2 ⁷ .
EUGENE	OR	97,402	BUTTE		MT	597.01
H C BAR	KER'		R (BARŘ		
P 0 B0X 190			P 0 808 15665		:	e de la companya de
MOOSE	· WY	83012	TULSA	w · · _	ок	74101
N K BAR	RETT	,	A E	BARTHOLEMY		
1530 CHESTNUT ST	SUITE' 606'		7102 S W 152ND	AVENUE	,	
PHILADELPHIA	PA	19102	ÉEAVERTON		OR	97007
PHILADELPHIA W A BAR 1276 LAKESHORE DRIV	TLETT E		N OREGON INSTITUT 7TH FLOOR MACKA	BASESLU E OF TECHNO Y BLDG	LOGY	
KLAMATH FALLS	OR'	97601	AN CHORÂGE	,	AK	99501
KLAMATH FALLS T BAT GEOSERVICES WEST P 0 BOX 7182	ERIDGE		T 310 TURNER ROAD	BAYLISS		
MISSOULA	· MT	59807	RICHMOND	•	V A	23225
MISSOULA W E BEA ENVIRONMENTAL PROTE 418 E. MAIN STREET	VER CTION LEAGU	 E	H ARIZONA PUBLIC P O BOX 21666	BELL SERVICE CO		
SPARTA	WI	54656	PHOENIX		ΑZ	85036

RL	BENDIXEN			s	BENNER		
US DEPARTMENT OF 915 2ND AVE. RO	ENERGY 10M 1992	•		BOX 191			
SEATTLE		WΑ	98714	SIERRAVILLE		CA	96126
R A	BENNETT			E B	BENTLEY		
1424 1/2 LINCOLN	AVE.		•	2307 PENDLETON			•
CALISTOGA		CA	94515	BOISE		ID	83705
T C	BENTON			FΕ	BENTON		
4852 PESCADERO A	VE.			P C BOX 283			
SAN DIEGO		CA	92107	MONTPELIER		ΙD	83254
J L				G N	BERRY		
420 WAKARA WAY				600 SPRUCE ST			
SALT LAKE CITY		UT	84108	BOULDER		c o	80302
F F	BERRY			A R			
AMERICAN POTATO P O BOX 592	COMPANT	٠,		P G BOX 5348			
BLACKFOOT		10	83221	JACKSON P		MS	39216
R E SCIENTIFIC SOFTW FIRST OF DENVER	BICKHAM ARE CORPOR PLAZA	ATIC	N	P UNIVERSITY OF W DEPT OF PETR. E	BIGGS YOMING NGR.		
DENVER			80202	LARAMIE		WY	82071
J GEOTHERMAL OFFIC ONRC 32 SOUTH ER	RIRKLY '			J CECTHEDMAL OFFI	BIFKLY		
HELENA		MT	59601	HELENA		MT	59601
J GEOTHERMAL OFFIC 32 SOUTH EWING	EIRKLY E ONRC			J GEOTHERMAL OFFI 32 SOUTH EWNG	RIRKLY CE ONRC		
HELENA		MT	59601	HELENA		MT	59601

J BIRKLY GEOTHERMAL OFFICE ONRC 32 SOUTH EWING	B BIRMAN GEOTHERMAL SURVEYS. INC. 99 PASADENA AVE
HELENA MT 59601	SO PASADENA CA 91030
HELENA MT 59601 A B BISHOP AGENCY BLDG• 2	A BLACK
AGENCY BLDG. 2	1330 BROADWAY. SUITE 1400
J BLACKBURY NY 12203	OAKLAND CA 94612
J BLACKBURY 9-MILE FARMS INC	V H BLACKMAN
RT 2. BOX 221	BOX 1620
VALE 0R 97918	LA JOLLA CA 92037
J P BLAKE INTERNATIONAL DIRECTIONAL CONSULTAN P.O. EOX 9651	G F BLASER IDAHO FUEL ALCOHOL PRODUCERS P G BOX 3023
BAKERSFIELD CA 93309	BOISE ID 83703
BAKERSFIELD CA 93309 G F BLAZER IDAHO FUEL ALCOHOL PRODUCERS P.O. BOX 3023	N F BLINSTRUB 79 WASHINGTON
BOISE ID 83703	KLAMATH FALLS OR 97601
DR G BLOOMQUIST	G M BOOTH III GEOTHERMAL DEVELOPMENT ASSOCIATES 4275 HACKAMORE DRIVE
OLYMPIA WA 98502	RENO NV 89509
B S BOSWELL WESTEC SERVICES INC 3211 FIFTH AVENUE	B S BOSWELL WESTEC SERVICES. INC 3211 FIFTH AVENUE
SAN DIEGO CA 92103	
R G BOWEN 825 N W ALBEMARLE TERR.	R C BOWSER AE ASSOCIATES P O BOX 1353
PORTLAND OR 97210	EUGENE OR 97440

I BRACY INTERNATE DESIGN & DEVELOR 403 G HIGHWAY 43	PMENT		R F BRADLEY KIDDE CONSULTANTS, INC UNIVERSITY OFFICE PLAZA		
SARALAND	ΑL	36571	NEWARK	ĐΕ	19702
R BRANDT THE ROBERT DOLLAR CO. P O BCX C			F O BRASWELL ALABAMA DEPARTMENT OF ENER 3734 ATLANTA HIGHWAY	GY	
GLENDALE	OR	97442	MONTGOMERY	AL	36130
K BRAY GEOTHERMAL COMMERCIALIZATI P O BOX 4096	ION O		B P BREEN RESEARCH-COTTRELL BIPHASE 17332 IRVINE BLVD•		
_	WY	82071	TUSTIN	CA	92680
# BRINK C & L ONE BUSH STREET			M D BRINKLEY CITY OF LEWISTON P G BOX 617		
SAN FRANCISCO	CA	94104	LEWISTON	ΙD	83501
C A BROTT TELEDYNE - GEOTECH 3401 SHILOH RD			A R BROWN ENGINEERING GEOLOGIC SERVI 296 COLLEGE PARK DRIVE	CES	
				CA	90740
W BROWN OWYHEE ENERGY PRODUCES. IN P 0 BOX 152	ıc		T BROWN SR CALIFORNIA THERMOHOL CO 1457 FLEET STREET	INC	
ADRIAN			VE.NTURA	C A	93003
H BRUNSDON WASH. STATE SENATE ENERGY UTILITIES COMMITEE	&		H BRUNSDON Washington State Senate Energy & Utilities Committ	E E	
OLYMPIA			OLYMPIA .	A k	98504
R W BRYSON P 0 B0X 810			A C BUCK DETROIT TESTING LAB INC. 8720 NORTHEND AVENUE		
BATTLE MOUNTAIN	NV	85820	OAK PARK	ΜI	48237

C G BUFE U S GEOLOGICAL SURVEY 345 MIDDLEFIELD RD		J BUNKLES MT DEPT OF NATRL RESOURCES & CONSRV 32 SOUTH LWING
MENLO PARK		
D BURGETT P.O. EOX 265-A ANIMAS		D BURMFISTER DONA ANA COUNTY OFF. OF PLANNING & BLDG. INSPECTION LAS CRUCES NM 88001
B BURNSIDE		R. D. GUTLER GUTLER
U.S. GEOTHERMAL CORP. 501 WINGED FOOT RO.		292 MAIN ST SOUTH
PHOENIX	AZ 85002	VALE 0R 97918
R T BUTLER		D BUTLER
342 S W 3RD ST	•	MICROGEOPHYSICS CORP :
UNTARIO	OR 97914;	WHEATRIDGE CO 80033
DENVER RESEARCH INSTITUTE P O BOX 19127	E .	CABRAL THE CEDA CORPORATION 1623 FOREST DR., SUITE 205
DENVER	CO 80210	ANNAPOLIS MD 21403
E CAHILL ENERGYLOG COPPORATION		M J CALE
3277 2ND AVENUE		2618 TUSCAN CT.
SACRAMENTO	CA - 95817-	SANTA ROSA CA 95405
J CALLON		W S CAMPBELL
PACIFIC ENERGY COPP. P.O. BOX 1287		P 0 B0X 3722
NATCHEZ	MS 39120	SAN FRANCISCO CA 94119
D CAMPBELL GILA HOT SPRINGS RT. 11, 50X 80		T CAMPBELL REPUBLIC GEOTHERMAL, INC P G BOX 3388
SILVER CITY -	NM 88061	SANTA FE SPRINGS CA 90670

R B CAMPBELL SOUTHERN TIER WEST REGIONA 41 MAIN STREET	AL P&D BD	R B CAMPBELL SOUTHERN TIER WEST REG*NL & OF VELOPMENT BOARD	PLAN	NING
SALAMANCA		8 DEVELOPMENT BOARD SALAMANCA	NY	14779
V P CANIZARO SPERRY VICKERS AMD DIVISIO 5353 HIGHLAND DR.	ON .	D D CARDA SDSM&T EXFT STATION		
JACKSON	MS 39206	RAPID CITY	sp	57701
		M D CARPENTER	CE	
ALHAMBRA	CA _. 91802	LAKEPORT	C A	95453
T P CASTOR ENG • INC • 37 OLIVER ROAD		E J CATANZARO FAIRLEIGH DICKINSON UNIV•		
BELMONT	MA 02178	TE ASNECK	ŊJ	07666
J R CENTORINO 23 PARSONS ST		D J CERINI BIPHASE ENERGY SYSTEMS GECTHERMAL PROGRAM MANAGER	•	·
WEST NEWTON	•	SANTA MONICA		90405
D' CHAMBERS		D : CHAMBERS		
6385 HEATHER RIDGE WAY		6385 HEATHER RIDGE WA		
CAKLAND	CA 94611	OAKLAND		94611
	•	T J CHANCELLOR DOLGLAS ARICRAFT CO INTERNAL MAIL CODE 1881		
SILVER CITY	NM 88061	LONG BEACH	CA	90846
P'B CHANDLER 2615 MARQUETTE DR.		M CHAPMAN DNRC 32 S BEWING		
TOPANGA	CA 90290	HELENA .	MT	59601

L CHATURVED NEW MEXICO STATE UNIV BOX 3 CE	1 1	J G CHERIM CENTER FOR METROPOLITAN PL RESEARCH/JOHNS HOPKINS UNI	ANNING &
LAS CRUCES	NM 88003	BALTIMORE	MD 21218
G F CHESS PEABODY FLOWAY INC. P O BOX 164	*	G D CHOUINARD AG WEST INC 33853 PALOMARES	
FRESNO	CA 93727	CASTRO VALLEY	CA 94546
J CHRISTIAN	SON	E CIANCANELL	I
NORTHWEST DEVELOPMENT GRO 422 E. MAIN, SUITE 300	014	3358 APOSTOL ROAD	
BISMARCK	ND 58501	ESCONDIDO	CA 92025
E V CIANCANEL CASCADIA EXPLORATION CORP 3358 APOSTOL ROAD	LI .	J P CLARK COLLEGE OF THE SISKIYOUS 800 COLLEGE AVE	
		WEED	CA: 96094
L D CLARK . ENERGETICS CORP. 933 E ARAPAHO ROAD		L D CLARK ENERGETICS CORPORATION 833 E. ARAPAHO ROAD	
		RICHARDSON	TX 75081
J H CLAY		S W CLEMENTS	
618 FAIR FOUNDATION BLDG		2109 6TH AVE SO	•
TYLER	TX 75702	PAYETTE	ID 83661
E CLEVELAND		N W COFFEE	
LELCO, INC. P 0 BOX 70		3833 CLARLEE ST	
BEND	OR 97701	OAKLAND	CA 94609
B A COLE LAW OFFICES OF RONALD HOT 332 PINE ST 4TH FLOOR	HEM	A D COLLIER SWAN LAKE MOULDING COMPANY P G BOX 428	
SAN FRANCISCO	CA 94123	KLAMATH FALLS	OR 97601

F COLLINS US DOE REGION IV 1655 PEACHTREE STREET NE			F COLLINS US DOE REGION IV 1655 PEACHTREE STREET NE		
1833 PLACHINEE SINCE! NE			1655 FLACHINEE SINCE! NE		
ATLANTA	GA .	3 0367	ATLANTA	G A	30367
A G COMER MAPCO PRODUCTION COMPANY 1800 S BALTIMORE AVE		- -	C T CONDY CALIFORNIA ENERGY CO INC PRESIDENT		,
TULSA	οĸ	74119	SANTA ROSA	CA	95402
W R CONNOLLY			E J CONNOLLY		
ROUTE 1. BROOKSIDE LANE	•		P C BOX 1553		•
BOISE	ID	83702	BOISE	ΙD	83701
E J CONNOLLY P O BOX 1553			F R CONWELL WOODWARD-CLYDE CONSULTANTS THREE EMBARCADERO CENTER		
	ID			СА	94111
K CORGEL ELIOT ALLEN & ASSOC., INC. 1257 HIGH STREET, SUITE 7			SAN FRANCISCO C H CORWIN BOX 689		
EUGENE	- CR	97401	KETCHUM ,	ID	83340
R F CORWIN			K CORY		
HEARST MINING BLVD UNIVERSITY OF CALIFORNIA	(2555 MENDOCINO AVE		
BERKELEY	CA	94720	SANTA ROSA	CA	95401
R M COSTELLO BURNS & ROE INDUSTRIAL SRV 283 ROUTE 17 SOUTH	ICES	CORP	G E COURY COURY AND ASSOCIATES, INC. 7625 W 5TH AVENUE		
PARAMUS	NJ	07652	LAKEWOOD .	c o	80226
G D COUTTS THE SINGER CO. CLIMATE CON 62 COLUMBUS ST	TROL		LAKEWOOD E CRADDICK GEOTHERMAL EXPLORATION & D 2828 PAA STREET	EV•	CORP
AUBURN		13021	HONOLULU	ΗI	96819

R A CREWDSON		D	CROCKETT	<i>-</i>
OCCIDENTAL GEOTHERMAL 5000 STOCKDALE HWY		4301 SOUTH 1500	EAST	
BAKERSFIELD	CA, 93309	SALT LAKE CITY		84108
D CROCKETT VELLEY-HIGH OIL. GAS & MINE 230 WEST 4TH SOUTH	KALS .	R A . NEW MEXICO STAT BOX 3 PSL	CUNNIFF E UNIV	
SALT LAKE CITY	UT 84111	LAS CRUCES	NI NI	88001
A B CUNNINGHAM VRS/JOHN A BLUME & ASSOC. E	ENGINEERS	R INTERNAT®L RESE 21098 IRE CONTR	DANFORD ARCH & EVALUAT	ION
SAN FRANCISCO	CA 94105	EAGAN	MM	55121
W E DANIELS GEO ENERGY• INC. 3200 SCOTT BOULEVARD		M P 0 80X 91	DANIELSON	
		* ***		
SANTA CLARA	CA 95051	FAIRFIELD	11	83327
S S DASHEVSKY		R	DAVIS	
P 0 B0X 268	· · · · · ·	14.11 CANBY STREE	ET .	4
CONWAY	MA 01108	KLAMATH FALLS	.OR	97601
J DAVIS		BRUSH WELLMAN II		
RT. 3, BOX 3752	· · · · · · · · · · · · · · · · · · ·	2950/ SOUTH 67 W	EST	
JUNEAU	AK 99801 .	SALT LAKE CITY		84115
			DAWSON	
NATIONAL GEOTHERMAL CORP 4285. SNOWSHOE LANE	•	112 ORM STREET		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
RENO	NV 89502	MT SHASTA	CA	96067
O. L. DAY		F	DE ARBORN,	
GLOBAL GEOTHERMAL TECH. INC 320 COLLEGE AVE., SUITE 305	•	2634 WILKES AVE		2 - + 2 - \$
SANTA ROSA	CA 95401	DAVENPORT	A 7	52804

E R DECKER			J W DE	LAPP. JR.	
DEPARTMENT OF GEOLOGY UNIVERSITY OF WYOMING			484 PANAMA AVENUE		
LARAMIE	١Y	82071		c	A 95926
F DELLECHATE 0 BRIEN RESOURCES CORPORATIO 154 HUGHES ROAD SUITE 4) N		J DE SOUTHLAND ROYALTY 1000 FORT WORTH CL	NTON CO. UB TOWER	
GRASS VALLEY	C A		FORT WORTH		X 76102
H DERRAH CITY OF KLAMATH FALLS P.O. BOX 237			J L DE WRIGHT ENERGY NEVA 777 W. SECOND ST.	UBLE DA CORP•	-230
			RENO		
J DEUBLE WRIGHT ENERGY• NEVADA CORF• 777 W 2ND ST 230			B 6 DI	BONA	
RENO	۷V	89503	WASHINGTON	D	20461
J D DICK CHAFFEE GEOTHERMAL .LTD. 1361 SOUTH GLENCOE			J DI PARSONS, HAWAII P O EOX 29909	TTMAR	
DENVER C	0	86222	HONOLULU	н.	96820
P J CIVIRGILIO MECHANICAL TECHNOLOGY INC. 968 ALBANY-SHAKER ROAD			R F DO UNION OIL CO GEST P G BOX 6854	NDANVILLE HERMAL DIV	
LATHAM N	i Y	12116	SANTA ROSA	C	95406
L DONOVAN APPROPRIATE TECHNOLOGIES • IN	:r		R D DO	OLEY	
BOX 1016			7200 E DRY CREEK		
IDAHO FALLS I	D	83401	ENGLEWOOD		80112
D V DOWNES DOWNES ASSOCIATES. INC. RT. 6. BOX 688. DELMAR ROAD				ESTERBERG SERVICÉS.	INC
SALISEURY M	D	21801	WASHINGTON	D	20005

LISTING OF MIRLGL DRILLING MAILING LIST PAGE 0.014

J DUMEYER			J R DUNN		
B0X 11223	•		DUNN GEOSCIENCE 5 NORTHWAY LANE N		
PIUE.BILIO	(C:0	81001	LATHAM	NY	12110
C S DUNN FENIX & SCISSION INC. 1401 SOUTH BOULDER		·	C S DUNN FEAIX & SCISSON+ INC. P-0- BOX 15609		
TULSA	0.K	74119	TULSA	9 K	74112
F D DUNN ROGERS ENGINEERING CO INC 111 PINE ST			R B CURKIN CAS. ASSOCIATES 4710 N 16TH ST., SUITE 10	7	
SAN FRANCISCO			PHICENIX	ΑZ	85016
S. L. EASLEY DESERT ENERGY EQUIPMENT IN	c		W B EASTLAKE		
P.O. DRAWER 9005	. •	r	1107 N 18TH		;
ODESSA	ТX	79762	BOISE	ID	83702
W B EASTLAKE			E EGELING		
1107 N. 18TH			F EBELING PAGOSA SPRINGS GEOTHERMAL P C BOX 1507	PROJ	
BOISE	1 N	183702	PAGOSA SPRINGS		
BOISE	1D 	83702	PAGOSA SPRINGS		
BOISE	1D 	83702	PAGOSA SPRINGS		
BOISE M T ECKELS 3429 COLFAX B PL	1D 	83702	PAGOSA SPRINGS R C EDMISTON ANADARKO PRODUCTION CO. P.G. EOX 1330	C 0	81147
BOISE M T ECKELS 3429 COLFAX B PL	ID	83702 80206	PAGOSA SPRINGS R C EDMISTON ANADARKO PRODUCTION CO. P.G. EOX 1330 HOUSTON	C 0	81147
BOISE M T ECKELS 3429 COLFAX B PL DENVER P EDWARDES CITY OF SUSANVILLE GEOTHERMAL PROJECT OFFICE	ID CO	83702 80206 96130	PAGOSA SPRINGS R C EDMISTON ANADARKO PRODUCTION CO. P.G. EOX 1330 HGUSTON H EGO CITY OF VALE CITY MANAGER	CO TX	77001
BOISE M T ECKELS 3429 COLFAX B PL DENVER P EDWARDES CITY OF SUSANVILLE GEOTHERMAL PROJECT OFFICE	CO	83702 80206 96130	PAGOSA SPRINGS R C EDMISTON ANADARKO PRODUCTION CO. P.G. EOX 1330 HOUSTON H EGO CITY OF VALE CITY MANAGER	CO TX	77001
BOISE M T ECKELS 3429 COLFAX B PL DENVER P EDWARDES CITY OF SUSANVILLE GEOTHERMAL PROJECT OFFICE SUSANVILLE M FHRLICH WATERGATE TOWER 10TH FLOOR	CO	83702 80206 96130	PAGOSA SPRINGS R C EDMISTON ANADARKO PRODUCTION CO. P.G. EOX 1330 HOUSTON H EGO CITY OF VALE CITY MANACER VALE M EHRLICH WATERGATE TOWER	tx OR	77001

S M EISENSTAT			S M EISENSTAT		
30 ROCKEFELLER PLAZA			EISENSTAT & GOTTESMAN 30 ROCKEFELLER PLAZA		
NEW YORK	NY	10112	NEW, YORK	NY	10022
S - ELLINWOOD			R E ELLIOTT LOS ALAMOS CONSULTANTS 103 GRAND CANYON DR.		
J R ELLIS U S DEPT OF ENERGY GRAND JUNCTION OFFICE			L M EPPS I CUBED CORPORATION 378 NEW YORK AVE		
GRAND JUNCTION	co	81501	HUNTINGTON	NY	11743 .
L FSPOSITO			D J EVERITTS		
INTEGRATED ENERGY SYSTEMS 205 N 10TH ST	INC .		100 OCEANGATE , SUITE 300		
BOISE	10	83702	LONG BEACH	CA	90802
D A EVERSOLL NEBRASKA GEOLOGICAL SURVEY UNIVERSITY OF NEBRASKA			P FAIRCLO RT 2. BOX 810	,	
			KLAMATH FALLS	OR	97601
R H FAKUNDINY NEW YORK STATE GEOLOGICAL 3140 CEC, ESP	SURV	ΕΫ	L FALICK EG&G WASCI 2150 FIELDS ROAD		· · · · · · · · · · · · · · · · · · ·
ALBANY	NY	12230	ROCKVILLE	MD	20850
D FEDOR NEW MEXICO ENERGY & MINERAL P O DRAWER 3-DC	L DE	PΤ	D FENTON SVERDRUP & PARCEL & ASSOC. 800 N. 12TH BLVD.	INC	
LAS CRUCES	NM	88003	ST LOUIS	МО	63101
D FINN			J FIORE CER CORPORATION		
P 0 B0X 1287			P 0 B0X 15090		
NATCHEZ	MS	39120	LAS VEGAS	ΝV	89114

L A FISHER 3841 25TH STREET			S L FLANDERS AMERICAN WESTERN SECURITI		NC •
	C A .	04114	360 S MONROE	CO.	00209
N H FLEMING		77114	T FLEMING		80207.
HOUSTON ATLAS. INC. 9441 BAYTHORNE DRIVE	•		REGION IV DEVELOPMENT ASS EXECUTIVE DIRECTOR	oc. I	NC.
HOUSTON	ťΧ	77041	TWIN FALLS	ID	83301
J C FLETCHER			D FOLTZ		
P 0 B0X 111			P.C. BOX 173		
NAGS HEAD	NC.	27959	KANSAS CITY	MD	64141
I FONSKILL			W A FORAKER		
FONSKILL & COMPANY 331 WEST IDAHO STREET			P C BOX 749		
BOISE	ID,	83701	CHICO	C A	95,927
G M FORD FORMINCO, INC. P O BCX 1086			J & FGSTER HDR ENERGY DEVELOPMENT COL SENIOR VICE PRESIDENT		TION
	UΤ	84713	AUGUSTA	G A	30902
C FOURSTAR			KS, FOX,		
TRIBAL RESEARCH OFFICE BOX 1338			UNION CIL CENTER, ROOM, M	33.	
	MT	59255	LOS ANGELES	CA	90017
W FOX P O BOX 8127			D FREAR		
P U BUX 6127	: • .		1058 BRADLEY LANE.	. <i>t</i>	
FOUNTAIN VALLEY	C A	92708	SPARKS	ΝV	89431
D FREAR 1058 BRADLEY LANE			D FROLIO BRACE• WELL & FATTERSON 1850 K STREET N W		
	:	: .			*
SPARKS	NV	89431	WASHINGTON	D.C	20006

P E GAGNARD			M	GALLOWAY		
HYDROSCIENCES. INC 12687 W. CEDAR DR.			3888 S. URAVAN			
LAKEWOOD	СО	80228	AUFORA		CC	80013
R GARDNER			R F STANDARD ERANDS	GARDNER		
10960 WLSHIRE BLVD			STANDARD BRANDS 1899 L STREET•			
LOS ANGELES	CA	90024	WASHINGTON		Ð C	20036
R GARDNER			8	GAUGLER		
STD. BRANDS INC 1899 L ST NW	•		B ENERGY MANAGEME GOVENORS OFFICE	NT & CONSER	VATI	ON '
WASHINGTON	DC	20036	BISMARK		ממי	58505
R E GAUNT THE RALPH M PARSONS COMPAN	Υ		D G P ENGINEERING	GEDDES		
TIGE THEOLOGICAL						
PASADENA L GEOSCHL	CA	91124	NEW MEADOWS		10	83654
L GEOSCHL TEXAS A & M RESEARCH FOUND ASSOCIATE FOR PROG • DEVELO	ATIO	N				
COLLEGE STATION	т×	77843	IDAHO FALLS		10	83401
R C GIRTON SCIENCE APPLICATIONS, INC. P.O. BOX 696			W A RIG CHIEF DRILL P O BOX 14837	GLASS ING CO		,
IDAHO FALLS	ID	83401	OKLAHOMA CITY		οĸ	73113
G B CLASSCOCK BARCROFT COMPANY 40 CAPE HENLOPEN DRIVE			P J DEPT OF GEOLOGIA GEOTHERMAL PROG	GLEASON		
LEWES	DΕ	19958	BLACKSBURG		VA	24061
S.W GOERING COURY AND ASSOCIATES. INC. 7625 WEST 5TH AVENUE			B WHITE WATER CORI 1010 BOOTH	GOFF P		
LAKEWOOD	co	80225	POCATELLO		10	83201
					_	_

R L GOGIN		D GOLDMAN	
1575 24TH AVE		EG&G IDAHO INC P 0 BOX 1625	
SAN FRANCISCO	CA 94122	IDAHO FALLS	ID 83401
L H GOLDSMITH INTERNATIONAL ENGINEERING 180 HOWARD STREET	CO.INC.	N E GOLDSTEIN LAWRENCE BERKELEY LABORATO 1 CYCLOTRON RD.	GR Y
SAN FRANCISCO	CA 94105	BERKELEY	CA 94720
J T GORMLEY D*APPOLONIA 7400 S• ALTON COURT		D B GORTE BANK OF AMERICA 555 S. FLOWER STREET	
ENGLEWOOD	CO 80112	LOS ANGELES	CA 90071
W D GOSNOLD DEPT OF GEOGRAPHY-GECLOGY UNIVERSITY OF NEGRASKA		W D GOSNOLD JE DEPARTMENT OF GEOGRAPHY/GE UNIVERSITY OF NEBRASKA AT	
OMAHA	NE 68132	OMAHA	NE
W GOSSETT IDAHO DEPT OF WATER RESOUR STATEHOUSE	CES	W GOSSETT IDAHO DEPT OF WATER RESOUR STATEHOUSE	CCES
BOISE	ID 03720	DO 10F	ID 03720
DUISC.	10 62120	R W GGULD	ID 83720
R W GOULD ENERGY SERVICES INC AIRPORT PLAZA #.2	•	ENERGY SERVICES. INC. TWO AIRPORT PLAZA	* * *
IDAHO FALLS	ID 83401	IDAHO FALLS	ID 83401
M J GOULD GEOTHERMAL FINANCIAL CONSU 18000 S. SAVARONA WAY	ULTANTS	W F GRACE US DEPARTMENT OF ENERGY P O BOX 5400	2
	CA 90746		NM 87115
D GRAJCER AGUAFARMS INTERNATIONAL 1 P.O. BOX 157		P R GRANT JR AMREP CORPORATION 3900 SOUTHERN BLVD SE	
MECCA	CA 92254	RIO RANCHO	NM 87124

PR GRANT, JR AMREP CORP. 3900 SOUTHERN BLVD., SE			P R GRANT • JR ENERGY RESOURCES EXPLORAT 9720-D CANDELARIA NE		INC
RIO RANCHO	NM	87124	ALBUGUERQUE		87112
P R GRANT, JR. ENERGY RESOURCES EXPLORAT 9720-D CANDELARIA RD., NE	ION,	INC	R A GRAY FEDERAL BUILDING, MS:3344 12 AND PENN N W		
ALBUQUERQUE	MM	87112	WASHINGTON	DС	20461
P W GREAVES AMAX EXPLORATION → INC 7100 W 44TH AVE WHEATRIDGE		•	S GREEN DIVISION OF WATER RIGHTS		
KUTALKIDOF			SALI LANE CITI		04111
P GREEN TECHNOLOGY ASSOCIATE 1372 S. FILLMORE			P GREEN TECHNOLOGY INTERNATIONAL 1372 SG FILLMORE	INC	
DENVER	Co	80210	DENVER	C O	80210
R GREIDER GEOTHERMAL RESOURCES INT			M N GRIFFIN		
4676 ADMIRALTY WAY			3548 MEADOW PLACE		
MARINA DEL REY -	CA	90691	BOISE	10	83706
M E GROVE			D C GPOVE		
P 0 B0X 709			P 0 B0X 637		
WHITE SULPHUR SPRINGS	мт	59645	GRAND JUNCTION	co	81502
J M GRUBB AMINOIL USA INC			F D GRUBER		
P 0 B0X 94193			4930 HIWAY 12 WEST		
			HELENA	· MT	59601
F D GRUBER 4930 HIWAY 12 WEST	,		W GUDGET GEYSERGRAM P O BOX 1738	·	2
HELENA	MT	59601	SANTA MONICA	C A	90406

PAGEDO20

₩ E GUSE	W E GUSE P 0 80X 602
P 0 B0X 602	,
JEMEZ SPRINGS NM 87025	JEMEZ SPRINGS NM 87025
U CHOTAVOON	J W GWYNN UTAH GEOLOGICAL & MINERAL SURVEY 606 BLACK HAWK WAY
MOSES LAKE WA 98837	SALT LAKE CITY UT 84108
₩ R HAHMAN• SR CPGS	W R HAHMAN+ SR CPGS
2045 N. FORBES BLVD	2045 N FORBES BLVD
TUCSON AZ 85705	TUCSON AZ 85705
W R HAHMAN, SR.	W F HAHMAN, SR.
2045 N. FORBES BLVD. SUITE 106	
TUCSON AZ 85705	TUCSON AZ 85705
	R L HALL 2012 DALMATION DRIVE
DALLAS TX 75219	ID AHO FALLS ID 83401
J W HANKIN BECHTEL NATIONAL INC	T L HANSON CALIFORNIA DWR P O BOY 388
SAN FRANCISCO CA 94119	
SAN FRANCISCO CA 94119	SACRAMENTO CA 95802
R I HARKER UNIV OF PENNSYLVANIA DEPT. OF GEOLOGY	C E HARRIS HARRIS ENGINEERING 325 TYLER AVE.
PHILADELPHIA PA 19104	EVANSVILLE. 1N 47715
K L HARRIS	R F HARRISON EUREKA ENERGY CO 215 MARKET ST RM 260

W F HARRISON OKLHOMA GEOLOGICAL SURVEY UNIVERSITY OF OKLAHOMA			J A HARRISON SUPREME SUGAR CO., INC. P C BOX 68		
NORMAL	oĸ	73019	LABADIEVILLE		70372
J A HARRISON SUPREME SUGAR CO., INC. P O BOX 68			J A HARRISÓN SUPREME SUGAR INC BCX 68		
LABADIEVILLE	LA	70372	LAHADIEVILLE	LA	70372
B HARRISON SW NEW MEXICO COUNCIL OF G ECONOMIC DEVELOP. COUNCIL SILVER CITY	QV.	88061	DR R K HART BOISE STATE UNIVERSITY DIRECTOR • CENTER FOR RESEASE	RCH ID	83725
D HART CITY PLANNING DEPT. 200 N. CHURCH STREET			L HARVEY INTERCOAST PESCURCES 112 NE 74TH		
LAS CRUCES	NM	88001	PORTLAND	G.F.	97213
W R HATCH 2690 FIELDSTREAM			K HATTON BUREAU OF GEOLOGY. M&MD P.O. BOX 2860		
IDAHO FALLS	ID	83401	SANTA FE	NM	87501
Z HAUK CERT 5660 S. SYRACUSE CIRCLE			H P HEASLER UNIVERSITY OF WYOMING DEPT OF GEOLOGY		
ENGLEWOOD	co	80111	LARAMIE	ΜĀ	80271
T F HEENAN DEPARTMENT OF ENERGY GEOTHERMAL ENERGY DIVISION			C E HFLSLEY HAWAII INSTITUTE OF GEOPHYS 2525 CORREA RD.	SICS	
OAKLAND			HONOLULU	ні	96822
B HENDERICKSOMAR-BIL ENTERPRISES 3910 ORANGEWOOD DRIVE	ΟN		M HENDERSEN R W BECK & ASSOCIATES 660 BANNOCK		
FAIR OAKS	CA	95628	DENVER	CO	80204

R HERMAN PROPERTI	HERMAN			S A	HICKS		
18320 TARZANA D				805 N W GEORGIA	<i>t</i>		
					•		
TARZANA				BEND .		OR 	97701
R HYDROTHERMAL CO EG&G IDAHO INC	HILKER MMERCIALI <i>za</i>	TION	DIV.	CALIF + ENERGY (HILL COMMISSION JE		· · · · · · · · · · · · · · · · · · ·
IDAHO FALLS		ΙĐ	83401	SACRAMENTO		CA	95825
	HILLING		**		HIGTT, JR		
BOX 1355	•		-	ENERGY RESOURCE	S		
BOZEMAN 5		MT	59715	COLUMBIA		sc	29201
В	HODAM	÷		D T GEOSCIENTIFIC S	HODDER	Metil 1	TINC
106 K STREET. S	UITE 200			8405 PERSHING [I ING .
SACRAMENTO -		CA	95814	PLAYA DEL REY -		- CA	90291
D GSC	HODDER			. G S C	HODDER		
SUITE 402				8405 PERSHING [RIVE		
PLAYA DEL REY		CA	90291	PLAYA DEL REY		C'A	90291
M AL STERN ASSOCI	HOLMES			н н	HOTSON		
P 0 B0X 3458				911 WESTERN AVE	•		
INDIALANTIC				SE ATTLE			98104
F H BECHTEL NATIONA P O BOX 3965	HOULE	,		C W DAMES & MOORE 6 COMMERCE DRIV	HOULIK, JR		
SAN FRANCISCO	٠.	CA		CR ANFORD .			07016
L D				J. H.	·		,
BIOMASS ENERGY 301 THATCHER BU				4614 AIMOND CIF	RCLE		
PUEBL0		c o	81003	LIVERMORE		C A -	94550

S M DEPT METALLURGY				S M HUBBARD		1
					WA	99203
C V DEPT. OF NATURA R&D DIVISION	HUDSON L RESOURCES			S L HUDSON ENERGETICS CORP. 833 E. ARAPAHO RD, SUITE	202	
BATON ROUGE		LA	70804	RICHARDSON	TX	75081
R EOCDC 1007 FOURTH STR	HUGGINS EET			D A HULL OREGON DEPT OF GEOLOGY & MINERAL INDUSTRIES		
LA GRANDE			97850	PORTLAND	OR	97201
R 3823 N 36TH	HUNT			W B HUNT JR. WESTERN ENERGY OF CARLSB SOUTHERN N M WAREHOUSE		
BOISE				CARLSBAD	NM	88220
				N M HYYTINER ABC CONCRETE PROD PRESIDENT		,
ENGLEWOOD		Co	80111	RENO LACKSON	NV	89510
J 3200 SCOTT BLVD	JACKSON			D JACKSON ENERSUN TECHNOLOGY 19600 LENCHO PL•		
SANTA CLARA		CA		WALNUT	CA	91789
D GERAGHTY & MILL 844 WEST STREET	ER INC			K JACKSON NEVADA DEPARTMENT OF ENE 400 WEST KING• SUITE 106		
ANNAPOLIS	٠.	MD	21401		NV	89710
D V WYO-BEN UNITED 1242 NORTH 28TH				J J JACOBSON BATTELE PACIFIC NW LABS EDL BLDG.		
BILLINGS		MT	59103	RICHLAND	₩A	99352

R W JAMES GEOTHERMAL COMMERCIALIZATIO P O BOX 4096		O JAMES SNCCO ENERGY DEVELOPMENT CO 12700 PARK CENTRAL PL			
LARAMIE	WY 82071	DALLAS	TX	75230	
R W JAMES WYOMING GEOTHERMAL COMMERCIALIZATION OFFICE LARAMIE	2	I JAMIESON ENTHALPY INC. 320 COLLEGE AVE. SUITE 30	 5		
P , JANSS		W/C JANSS JR JANSS CORP			
RT 1 BOX 240		100 E THOUSAND DAKE BLVD			
BELLEVUE	ID 83313	THOUSAND OAKS	C.A	91360	
D JENKINS BOX 869		B JENNINGS BRUCE JENNINGS 2386 HWY 6 & 50 WEST			
MINDEN	NV 89423	GRAND JUNCTION	C 0	81501	
P A JEZEK STONE & WEBSTER ENGR CORP P O BOX 2325	•	A G JHAVERI JOHN GRAHAM & COMPANY ENERGY MANAGEMENT SPECIALI	ST	,	
BOSTON	MA 02107	SEATTLE	· W A	.98101	
G R JIRACEK UNIVERSITY OF NEW MEXICO DEPT OF GEOLOGY		R L. JODAY ENERGY & NATURAL RESOURCE CONSULTANTS. INC.			
ALBUQUERQUE	NM 87131	RICHARDSON	Ţ∕X	75080	
J JOHANSEN OFFICE OF EMERGENCY & ENERGY SERVICES		T C JOHNSON CITY OF IDAHO SPRINGS CITY ADMINISTRATOR			
RICHMOND	VA- 1 23/225	INAHO SPRINGS	c o	80452	
K R JOHNSON GEO PRODUCTS CORPORATION 1330 BROADWAY		K JOHNSON GEOPRODUCTS CORP. 1330 BROADWAY. SUITE 1400			
OAKLAND	CA 94612	OAKLAND	CA	94612	

W R JOHNSON JA OLD OREGON TRAL REAL ESTAT 387 A ST WEST	ξ Γ Ε		V F. JOHNSON • J HYDRONAUTICS • INC • 7210 PINDELL SCHOOL RD •	I R
VALE	OR	97918	PRINCE GEORGE	MD 20810
L JONES LOWELL N. JONES CO P C BOX 1866			S JORDAN JORDAN, APOSTAL, RITTER AS ADMINISTRATION EUILDING 7	SOC. INC
KLAMATH FALLS				RI 02854
B D KAISER ENERGETICS CORPORATION 833 E. ARAPAHO RO. SUITE	202	·	J KARKHECK BROOKHAVEN NATIONAL LABORA BUILDING 1297	TCRY
RICHARDSON	ΤX	75081	UPTON	NY 11973
J KARMENDY DOE/SAN GLGO 1333 BROADWAY			L KATZ UTAH GEOPHYSICAL• INC•• P G BOX 9344	
OAKLAND	CA	54612	SALT LAKE CITY	UT 84109
L KATZZ UTAH GEOPHYSICAL • INC P O BOX 9344			O KAUFFMAN DEPT OF CHEMICAL & NUCLEAR UNIVERSITY OF NEW MEXICO	ENGR
SALT LAKE CITY	UT	84109	ALBUGUERQUE	NM 87131
R KFATON NAKASHIMA NURSERY 610 LINCOLN			M KFEHNER KIDDER, PEABODY & CO., INC 10 HANOVER SQUARE	•
WATSONVILLE	C A	95076	NF& YORK	NY 10005
R C KEENEY RADIAN OCRPORATION 8500 SHOAL CREEK BLVD			H & KFLLEY TOWN OF OCEAN CITY P C BOX 158	
AUSTIN	ТX	78757	OCEAN CITY	MD 21842
R L KFLLY TEFFT & KELLY 1225 CONNECTICUT AVE	. –		J M KENNEDY R4/2066 ONE SPACE PARK	
WASHINGTON	DC	20036	REDONDO BEACH	CA 92078

R KENT			R KERBEL CITY OF ROCHESTER		٠.
2309 LINDA VISTA DRIVE			30 CHURCH ST. ROOM 205A		
KLAMATH FALLS	OR	97601	ROCHESTER	NY	14614
F L KESTER INSTITUTE OF GAS TECHNOLOG			J C KIELPINSK		
3424 SOUTH STATE ST	• ,		P 0 BCX 580		
			STEVENSON		98648
R- KIESSIG			K J KINDBLAD CALIF. PUBLIC UTILITIES CO	1 P.M	
800 MERCED STREET			350 MCALLISTER ST.	J eges •	
PISMO BEACH	CA	93449	SAN FRANCISCO	CA	94507
J KIRKMAN MAGIC RESOURCE INVESTORS P.O. BOX 1328			J P KITA		
P.O. BOX 1328			WESTON WAY		
SÚN VALLEY	ın.	83353	WEST CHESTER	PΑ	19380
K KITAYAMA KITAYAMA			WEST CHESTER KLAUSSEN		
KITAYAMA BROS. 481 SAN ANDREAS RD.			LAHONTAN INC BOX 630		
WATSONVILLE	CA	95076	SACRAMENTO	C A	95803
Ĉ W KLEIN : GEOTHERMEX+ INC+			D W KLICK U S GEOLOGICAL SURVEY		
901 MENDOCINO BERKELEY	CA		NEATTONIAL CENTER	VA	22092
M KNEBEL			A KNODEL		
M KNEBEL BURNS & ROE INDÚSTRIÁL SER 283 ROUTE 17 SOUTH	v. c	ORP •	LASTMAN WHIPSTOCK INC 1610 DENVER CLUB BLDG		
PARAMUS .	NJ		DENVER	CO.	80202
G F KOHLER			G F KOHLER		
11945 WOODLEY A			11945 WOODLEY		•
GRANADA HILLS	CA	91344	GRANADA HILLS	CA	91344

Е В	KONECCI			K KORTEMEIER YUCCA LODGE & BATH		
6206 HIGHLAND H	ILLS DR.			31 € AUSTIN		-
				TRUTH OR CONSEQUENCES -		
G C	KOSMOS JR			B KRAKOW New York State Energy rese	VD C F	
2440 DELMAR DR.	E			AND DEVELOPMENT		
SEATTLE						12223
J C ROSES INCORPORA 1152 HASLETT RO	TED			J KRUEGER CITY PLANNER BCX 232		
HASLETT		MI	48840	EDGEMONT	sD	57735
J F				DR J F KUNZE		
RT. 4. BOX 224				ENERGY SERVICES. INC TWO AIRPORT PLAZA		
IDAHO FALLS	•	ID	83401	IDAHO FALLS	I D	83401
DR J F ENERGY SERVICES TWO AIRPORT PLA	KUNZE P E • INC		<u>-</u>	S KURSH SOLAR ENERGETICS INC 301 S WEST ST		
IDAHO FALLS		ID	83401	WILLINGHAM	DE	19899
D BOX 7038	KUSTER			J T KUWADA GEOTHERMAL KINETICS 50 CALIFORNIA STREET		
LONG BEACH		CA	90807		CA	94111
H C LAW OFFICES OF 1 332 PINE ST., 4	L ORANGE	EM	•	T A LADD NAVAL FACILITIES ENGIN®ING 200 STOUVAL ST	CMM	AND
SAN FRANCISCO		CA	94123	ALEXANDRIA	VA	22332
J VIRGINIA POLYTE GEOTHERMAL PROG	LAMBIASE CHNIC INSTI RAM	- .		R LAMSON KLAMATH RACQUET CLUB 2524 CROSBY AVENUE		
BLACKSBURG		V A:	24061	KLAMATH FALLS	OR	97601

J L	ANDRUM			M Á CHÉVRÓN RESCURCÍ			
375 ĞLADYS #1		-		P G.BOX 3722	ES COMPANT		,
LONG BÉACH	C	: A	00814	SAN FRANCISCO		CA	94119
Ř N L GRUY FÉDÉRAL INC. 2500 TANGLEWILDE:	ANÉ SUITE 150			J Ř VÍN CORP P O BOX Č 19529	LAÑÊ		
HOUSTON	Ť	X 7	7063	IRVINE		C A	92713
C K L WESTEC SËRVICES 3211 FIFTH AVENUE	ANE			R K CARSON HOT SPRIM 1500 HOT SPRINGS	LANGSON VGS		
SAN DIEGO	Ċ	A 9	2103	CARSON CITY		ΝV	89701
	ARSEN			M K CITY OF CALIENTS	LARSON		
800 18TH ST., NW.	SUITE 300			TOWN HALL	iz		
WASHINGTON	D.	c a		CALIENTE		NV	89008
L Ť L DÉPT GEOLÓGÍCAL S UNÍV OF NEVÁDA	ANSON			K MAYOR CITY OF CALIENTE	LANGUM		^
RENO		V 8		CALIENTE		ΝV	89008
T L SAI 1200 PROSPECT ST	ÁRSON	· ·		W P KEFN PÖTATO DÍST P O BOX 321	LASSETT TRS. INC		,
LA JOLLA	c	A 9	2038	KLAMATH FALLS		OR	97601.
A L L UNION OIL CO. OF 2099 RANGE AVE.	ATTANNÉR		·		LAU		
SANTA RÕSA	C	A 9	5461	IDAHO FALLS		IĐ	83401
C L ENVIRONMENTAL RESI P O BOX 511	AWTON EARCH & DES	IGN		E AMER. PUB.PWR. / 2600 VIRGINIA AV	LEBER Assoc.		
LAKEPORT		A 9	5453	WASHINGTON		nc	20037

	•						
Ρ .	LEITNER			м	LEVMSON		
ST MARY S COLLEG	Ε			P 0 B0X 570065			
MORAGA				LOS ANGELES			
M					LEVMSON		
P 0 80X 57065				P C BOX 57065		_	
LOS ANGELES				LOS ANGELES		C A	90057
P SOUTH DAK. OFFIC STATE CAPITOL	LIDEL E OF ENERG	Y PO	LICY	P J OREGON INSTITUTE	LIENAU E OF TECHNO	LCGY	
PIERRE		SD	57501	KLAMATH FALLS		OR	97601
M A EXPLORATION RESE 1701 CLINTON ST.	ARCH ASSOC		SINC	G W 1409 ESPLANADE	LINDLAND		
LOS ANGELES		CA	90026	KLAMATH FALLS		OR	97601
G M	LINDLAND			В	LINNF		
14091 ESPLANADE				P 0 B0X 9669			
KLAMATH FALLS		OR	97601	BAKERSFIELD		C A	93309
N W				СН			
7001 WEST 117TH				1000 CONN. AVENU	JE . NW		
BROOMFIELD		сo	80020	WASHINGTON		DC	20036
DR A GRUY FEDERAL INI	L OTTO II.			M L	LONG		
2500 TANGLEWILDE				P.G. BOX M			
				KLAMATH FALLS		OR	97601
F G L COUNCIL OF ENERGY 5660 S SYRACUSE (LONG Y RESOURCE		BES		LONG S		
ENGLEWOOD		CO	80111	GRASS VALLEY		CA	95945

LISTING OF MTREGE ORILLING MAILING LIST PAGE 0030

A B LONGYEAR LAHONTAN. INC			D J LOWELL AGIP MINING CO INC		
P 0 B0X 630			950 17TH ST. SUITE 2200		
SACRAMENTO	CA	95 80 3	DENVER	co	80202
D A LUNDY BROWN & CALDWELL CONS. ENG	· · ·		E E LUPER MISSISSIPPI DEPT. OF NAT. EUREAU OF GEOLOGY JACKSCN C MAC EDDY	RESO	URCES
WALNUT CREEK	CA	94596	JACKSON	MS	39216
J F LYNCH SOMERSET COUNTY PUBLIC SCH PRINCE WILLIAM ST.	DOLS		C MAC EDDY NEVOPACHE ELECTRIC COOPERA P O BOX 308	TIVE	INC
PRINCESS ANNE	MD	21853	LAKESIDE	ΑZ	85929
GEOTHERMAL COMMERCIALIZATION PO BOX 4096	DN O	FFICE	NEVOPACHE ELECTRIC COOPERA P C BOX 308	TIVE	INC
LARAMIE	WY	82071	LAKESIDE	ΑZ	85929
R B MACKAY GEOTHERMAL ENERGY SYSTEMS 1600 MT. ROSE HWY			F L MAJCHSZAK OHIO GEOLOGICAL SURVEY FOUNTAIN SQUARE		
RENO	NV	89511	COLUMBUS	он	43224
F P MANCINI CAPITOL TOWER, ROOM 502			J A MANCUS DELAWARE ENERGY OFFICE P.O. BOX 1401		
PHOENTY	Δ7	85.007	DOVER	DE	19901
C J MANKIN OKLAHOMA GEOLOGICAL SURVEY 830 VAN VLEET OVAL• ROOM 1			L MANSDORF		; ;
NORMAN	oĸ	73019	BEVERLY HILLS	C A	90210
NORMAN A J MANSURE BDM CORPORATION 180 RANDOLPH RD, SE		* • • • • • • •	K MARCOTTÉ GECTHERMAL COMMERCIALIZATI P O BOX 4096	0N 0	FFICE
		87106			82071

K MARCOTTE GEOTHERMAL COMMERCIALIZATI P O BOX 4096	ON C	FFICE		- 1.	
LARAMIE	W Y	820/1			99501
D MARKLE DIVISION OF ENERGY & POWER 338 DENALI STREET			G MARL OJO CALIENTE MINERAL SPRI P.O. BOX 468	NGS C	c o
ANCHORAGE	AK	99501	OJO CALIENTE	NM	88054
T J MARSHALL CAYUGA CO IND DEV AGENCY ERIE DR.			DR R C MARTIN CALIFORNIA DIV OF MINES & 2815 O STREET	GEOL	ngy
WEEDSPORT	NY	13166	SACRAMENTO	C A	95816
R C MARTIN CALIFORNIA DIV. OF MINES & 107 SOUTH BROADWAY	GEÓ	LOGY	R. C. MARTIN DIVISION OF MINES & TECH. 1416 NINTH ST, ROOM 1341		
LOS ANGELES	C A	90012			95814
R 'H MATHERSON AG-GRO IND. INC GEOTHERMAL AG SYSTEMS			M MATHEWS 1532 42ND STREET		
					87544
M D MATTICE HAWAII INST. OF GEOPHYSICS 2525 CORREA ROAD			W C MAURER MAURER ENGINEERING INC. 2916 WEST T.C. JESTER		
HONOLULU	ні	96822	HOUSTON MC GINNES	T X	77018
R MAYER, JR P 0 80X 1483			E MC GINNES SOUTHWEST TEXAS ELECTRIC P C DRAWER 677		
DALLAS	ТX	7 5221	ELDORADO	ТX	76936
B MC NEAL KRUCHEK ENGINEERING 3312 S W KELLY AVE			H W MCADEN SUNEDCO 12700 PARK CENTRAL PL		
PORTLAND	OR	97201	DALLAS .	ТX	75251

ARLINGTON VA 22202 ANIMAS NM 88020 P M MCCARTHY ADM ASSOCIATES, INC. 720 HOWE AVENUE, SUITE 105 SACRAMENTO CA 95825 SALEM D MCCLAIN D MCCLAIN 1411 IRENE DO BOX 488 CIMARRON NM 87714 CIMARRON NM 6COUNTEL NM COUNTEL NM COUNTEL NM COUNTEL NM COUNTEL NM	W J	MCCABE			T	MCCANTS		
P M MCCARTHY OREGON DEPT. OF ENERGY 102 HOWE AVENUE. SUITE 105 102 LABOR & INDUSTRIES BLDG SACRAMENTO CA 95825 SALEM OP 97310 D MCCLAIN JENERGY INC. P. 9. 80X 736 BOISE 10 83702 IDAHO FALLS ID 83401 M MCDANIEL M MCDANIEL M MCDANIEL P O BOX 488 P C BOX 486 CIMARRON NM 87714 CIMARRON NM 87714 W J MCDONALD EXTLORATION GEOTHERMICS 5202 COLLEGE GARDENS COURT HOUSTON TX 77018 SAN DIECO CA 92115 L MCGARR ALABAMA ENERGY MANAGEMENT BOARD STAFF ENGINEER MCGARR ALABAMA ENERGY MANAGEMENT BOARD P C DRAWER 6.77 MONTGOMERY AL 36130 ELDORADO TX 76936 F J MCGRATH C T MCGRADO TX 76936 F J MCGRATH C T MCHUGH CHEVRON RESOURCES P O BOX 3722 LA JOLLA CA 92038 SAN FRANCISCO CA 94119 R S MCINNIS MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP 10880 WILSHIRE BLVD	2301 S. JEFF DA	VIS HWY			P+C+ BOX 265		٠	
ADM ASSOCIATES. INC. 720 HOWE AVENUE. SUITE 105 SACRAMENTO CA 95825 SALEM OP 97310 D MCCLAIN INCONNELL ENERGY INC. P. 9. BOX 736 BOISE ID 83702 ID AHO FALLS ID 83401 M MCDANIEL P C BOX 498 CIMARRON M MCDANIEL M MCDANIEL P C BOX 498 CIMARRON MCDONALD AUPER ENGINEERING INC 2916 WEST T C JESTER DR R B MCGINNES SAN DIECO CA 92115 L MCGARR ALABAMA ENERGY MANAGEMENT BOARD STAFF ENGINEER MCGRATH SCIENCE APPLICATIONS INC P O BOX 2551 MCCULLOCH GEOTHERMAL CORPORATION R S MCINNIS MCCULLOCH GEOTHERMAL CORPORATION MATIGNAL GEOTHERMAL CORP	ARLINGTON	•	V'A	22202	ANIMAS		NM	88020
D MCCLAIN 1411, IRENE DOISE ID 83702 IDAHO FALLS ID 83401 M MCDANIEL M MCDANIEL P C BOX 488 CIMARRON NM 87714 CIMARRON MAURER ENGINEERING INC 2916 WEST T C JESTER HOUSTON TX 77018 SAN DIEGO CA 92115 L MCGARR ALABAMA ENERGY MANAGEMENT BOARD STAFF ENGINEER MCGARR ALABAMA ENERGY MANAGEMENT BOARD STAFF ENGINEER MONTGOMERY AL 36130 ELDORADÓ TX 76936 F J MCGRATH SCIENCE APPLICATIONS INC P O BOX 3722 LA JOLLA CA 92638 SAN FRANCISCO CA 94119 R S MCINNIS MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP 10880. WILSHIRE BLVD	ADM ASSOCIATES.	INC.	'		OREGON DEPT. OF	ENERGY	G .	
D MCCLAIN J W MCCONNELL ENERGY INC. P.C. BOX 736 BOISE ID 83702 IDAHO FALLS ID 83401 M MCDANIEL M MCDANIEL P O BOX 488 P C BOX 488 CIMARRON NM 87714 CIMARRON NM 87714 W J MCDONALD P R 0 MCEUEN EXFLORATION GEOTHERMICS 5202 COLLEGE GARDENS COURT HOUSTON TX 77018 SAN DIEGO CA 92115 L MCGARR E MCGINEER SOUTHWEST TEXAS ELECTRIC CO-OP INC P C DRAWER 6.77 MONTGOMERY AL 36130 ELDORADÓ TX 76936 F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH C T MCGURD F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH C T MCGURD F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH C T MCGURD F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH C T MCGURD F J MCGRATH C T MCGURD STAFF ENGINEER C T MCGURD F J MCGRATH F MCGURD F M M MCDON F M M MCDON F M MCGURD F M M MCDON F M M	SACRAMENTO		CÁ	95825	SALEM		OP	97310
M MCDANIEL M MCDANIEL P O BOX 488 P C BOX 486 CIMARRON NM 87714 CIMARRON NM 87714 W J MCDONALD DESTER EXFLORATION GEOTHERMICS 5202 COLLEGE GARDENS COURT HOUSTON TX 77018 SAN DIEGO CA 92115 L MCGARR E MCGINNES SOUTHWEST TEXAS ELECTRIC CO-OP INC P C DRAWER 677 MONTGOMERY AL 36130 ELDORADÓ TX 76936 F J MCGRATH C T MCHUGH CEVENOR RESOURCES P O BOX 2351 LA JOLLA CA 92038 SAN FRANCISCO CA 94119 R S MCINNIS MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP	D	_			J W ENERGY INC.	MCCONNELL		
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CIMARRON NM 87714 CIMARRON NM 87714 W J MCDONALD DR R R MCEUEN MAURER ENGINEERING INC EXFLORATION GEDTHERMICS 2916 WEST T C JESTER 5202 COLLEGE GARDENS COURT HOUSTON TX 77018 SAN DIEGO CA 92115 L MCGARR ALABAMA ENERGY MANAGEMENT BOARD SOUTHWEST TEXAS ELECTRIC CO-OP INC STAFF ENGINEER P GRAWER 677 MONTGOMERY AL 36130 ELDORADÓ TX 76936 F J MCGRATH CT MCHUGH SCIENCE APPLICATIONS INC CHEVRON RESOURCES P O BOX 3722 LA JOLLA CA 92038 SAN FRANCISCO CA 94119 R S MCINNIS H MCLAUGHLIN MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP	м	MCDANIEL			м	MCDANTEL		
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L MCGARR ALABAMA ENERGY MANAGEMENT BOARD SOUTHWEST TEXAS ELECTRIC CO-OP INC P C DRAWER 677 MONTGOMERY AL 36130 ELDORADÓ TX 76936 E J MCGRATH C T MCHUGH CHEVRON RESOURCES P C BOX 3722 LA JOLLA CA 92038 SAN FRANCISCO CA 94119 R S MCINNIS H MCLAUGHLIN NATIONAL GEOTHERMAL CORP	W J MAURER ENGINEER	MCDONALD ING INC			DR R B EXFLORATION GEO	THERMICS		
ALABAMA ENERGY MANAGEMENT BOARD STAFF ENGINEER MONTGOMERY AL 36130 ELDORADÓ TX 76936 E J MCGINNES P O DRAWER 677 MONTGOMERY AL 36130 ELDORADÓ TX 76936 E J MCGRATH C T MCHUGH CHEVRON RESOURCES P O BOX 3722 LA JOLLA CA 92038 SAN FRANCISCO CA 94119 R S MCINNIS MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP	HOUSTON	·	тх	77018	SAN DIEGO		C A	92115
F J MCGRATH C T MCHUGH SCIENCE APPLICATIONS INC CHEVRON RESOURCES P O EOX 2351 P O BOX 3722 LA JOLLA CA 92038 SAN FRANCISCO CA 94119 R S MCINNIS H MCLAUGHLIN NATIONAL GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP	L ALABAMA ENERGY STAFF ENGINEER	MCGARR MANAGEMENT I	BOAR	D	E SOUTHWEST TEXAS	MCGINNES ELECTRIC C	0-0P	INC
SCIENCE APPLICATIONS INC P 0 EGX 2351 CA 92638 SAN FRANCISCO CA 94119 R S MCINNIS MCCULLOCH GEOTHERMAL CORPORATION 10880 WILSHIRE BLVD CHEVRON RESOURCES P 0 BOX 3722 CA 94119 MCLAUGHLIN NATIONAL GEOTHERMAL CORP NATIONAL GEOTHERMAL CORP	MONTGOMERY	, ,	AL	36130	ELDORADÓ		ТX	76936
R S MCINNIS H MCLAUGHLIN MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP 19880 WILSHIRE BLVD	SCIENCE APPLICA	TIONS INC			CHEVRON RESOURCE			
R S MCINNIS H MCLAUGHLIN MCCULLOCH GEOTHERMAL CORPORATION NATIONAL GEOTHERMAL CORP 1988 WILSHIRE BLVD	LA JOLLA		CA	9 2638	SAN FRANCISCO		C A	94119
LOS ANGELES CA 90024 RENO NV 89502	R S MCCULLOCH GEOTH	MCINNIS ERMAL CORPO	RATI	O N				
	LOS ANGELES		CA	90024	RENO		NV	89502

B MCNEAL KRUCHEK ENGINEERING 3312 SW KELLY AVE			S MEGBY FUEL 8 MINERAL RESOURCES. P 0 BOX 2790	INC.	
PORTLAND	OR	97201	RESTON	VA	22090
DR T MEIDAV MEIDAV ASSOCIATES THE BROADWAY BUILDING	-		DR T MEIDAV MEIDAV ASSOCIATES THE BROADWAY BUILDING		
OAKLAND	CA	94612	OAKLAND	CA	94612
H MELTON DEPT OF ENERGY. OFFICE OF DEPT OF ENERGY. 5A 22B-MS WASHINGTON	INSP	ECTOR 20585	R J MEMBRENO SAI ENGINEERS • INC 3200 SCOTT BOULEVARD SANTA CLARA R T MEYER WESTERN ENERGY PLANNERS • E 2180 SOUTH IVANHOE	C A	95051
F G METCALFE GEOTHERMAL POWER CORPORAT PRESIDENT	ION	,	R T MEYER WESTERN ENERGY PLANNERS. L 2180 SOUTH IVANHOE	. T D•	
NOVATO				c o	80222
R T MEYER WESTERN ENERGY PLANNERS, I 2180 S. IVANHOE, SUITE 4	_TD		D MICHELS REPUBLIC GEOTHERMAL• INC• P•C• BOX 3388		
DENVER	со	80222	SANTA FE SPRINGS	C A	90670
H P MIHELIS SAI ENGINEERS. INC. 3200 SCOTT BLVD.			H P MIHELIS SAI ENGINEERS. INC. 3200 SCOTT BOULEVARD		
SANTA CLARA	CA	95051	SANTA CLAFA	CA	95051
DR R L MILLER			SR R L MILLER		
BOX 7738			NO 8 ADMIRAL DRIVE		
TAHOE CITY	C A	95730	EMFRYCILLE	CA	94608
DR R L MILLER WILBUR HOT SPRINGS			J C MITCHELL DEPARTMENT OF WATER RESOUR 450 WASHINGTON STREET	CES	
WILLIAMS	CA	95987	BCISE	1D	83702

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D K MOFFATT SUDESIGNS - ARCHITECTS & P 1315 GRAND AVENUE	LANN	ERS	W J MOLLIERE OFFICE OF ENVIRONMENTAL A LA DEPARTMENT OF NATURAL	AFFAIR: RESOU	S RCES
GLENWOOD SPRNGS	CO	81601	BATON ROUGE	LA	70804
J MONFORE WEYERHAEUSER COMPANY P O BOX 9			M MONTGOME! INTEGRATED ENERGY SYSTEMS 205 N 10TH STREET	RY	
KLAMATH FALLS	OR		BOISE		83702
C MOORF BOX 130			J L MOGRE CALIFORNIA ENERGY COMPAN' P G BOX 3909	Y. INC	•
ONTARIO	OR,	9 7914	SANTA ROSA	CA	95404
J MOREAU HAWAIIAN DREDGING & CONST. P O BOX 3468	c 0		G MORELLI DMJM 3250 WILSHIRE BLVD.		· · ·
HONOLULU	HA	96801	LOS ANGELES	CA	90010
R MORGAN			R. B. MOSS		
1206 N ELM CIRCLE	,		78-6800 ALII DRIVE		
TWIN FALLS	ID	83301	KAILUA KONA	ні	96740
W S MCTT EBASCO SERVICES INCORPORAT TWO WORLD TRADE CENTER	ED		W S MOTT EBASCO SERVICES INCORPOR TWO WORLD TRADE CENTER	ATED	
NEW YORK				NY	
N A MOYER			N A MOYER		
7035 INDIGO COURT			GEOTHERMAL OFFICE MS 59		
FAIR OAKS	CA	95628	SACRAMENTO	CA	95825
G MULLER WESTERN DEVELOPMENT 2640 S. CANDELIGHT DRIVE	•		S MUNSON	• INC.	
LAS CRUCES	NM 	88001	DENVER	c0	80206

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S MUNSON P J MURPHY TECHNOLOGY INTERNATIONAL, INC. UTAH GEOLOGICAL & MINE 1372 S. FILLMORE 606 BLACK HAWK WAY	RAL SURV	ΕY
DENVER CO 80206 SALT LAKE CITY	υτ	84108
W G MURRAY D E MYFRS		
TEKNEKRON RESEARCH. INC. 1483 CHAIN BRIDGE ROAD 7312 SOUTH 1600 EAST		•
MCLEAN VA 22101 SALT LAKE CITY	IJŤ	84121
F W NANTKER T L NEATHE SEHLL OIL COMPANY GEOLOGICAL SURVEY OF A 260 MAPLE COURT P O DRAWER O	RY Labama	
VENTURA CA 93003 UNIVERSITY	AL	35486
T L NEATHERY S L NFILSE GEOLOGICAL SURVEY OF ALABAMA	N	
P O DRAWER O 177 E CAKRIDGE DRIVE		
UNIVERSITY AL 35486 BOUNTIFUL	UT	84010
OR J H NEINABER R NELSON HUNT OIL COMPANY		
P 0 B0X 1317 B0X 263		
DENVER CO 80201 KETCHUM DR D NFLSON K L NEWMAN	ID	83340
DR D NFLSON K L NEWMAN ROSS STATE UNIVERSITY WESTEC SERVICES, INC. DEPT OF GEOLOGY 505 MARQUETTE NW		
ALPINE TX 79830 ALBUQUERQUE	NM	87102
V T NGUYEN R O NICHOL' NVT TECHNOLOGIES • INC • RESOURCE MANAGEMENT IN 8320 PORNEL PLACE	S TERNATIO	NAL
VA EDIO DAGANENTO		95815
R W NICHOLSON DR R W NICHOL WELL PRODUCTION TESTING 3188-D AIRWAY AVE 3188 C AIRWAY AVENUE	SON G	
COSTA MESA CA 92626 COSTA MESA	CA	92626

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85 EAST 1470 SO	ŮTĤ			DIVISION OF WATE 231 E. 400 SOUTH	H REGHTS		
FARMINGTON		ŮΤ	84025	SALT LAKE CITY		UT.	84111
G THERMOGENICS . I	NTIMI NC.		•	W E Wildelam e. Nork 250 e. Greg stri	NORK INC.	~.	
SANTA ROSA		C À		SPARKS		Ň.V	89431
M CITY HALL				L	NORTHRUP		
P 0 B0X 551		٠		4312 WESTWAY			٠
SAFFORD		ΑZ	85546	DALLAS		T.X.	75205
P [·]	NORTON			E F	NUCKOES'		
P 0 B0X 5326			·	P 0 B0X 729			
CARSON		CA	90749	LOS ALAMOS		ŇM	87544
F D' TECHNADRIE • INC 1111 FANNIÑ ST.	O PRIEN			W M LAS VEGAS HIETON PROPERTY CPERATI	O*PELL	·	
HOUSTON		ΤX	77002	LAS VAGAS		ſįV	89109
M SEOTHERMAL KINE 301 W. INDIAN SO	O DONNELL			M GEGTHERMAN KINES	OFFONNFEL		
PHOEN IX		ΑZ	· .	PROFNIX	· · · · · · · · · · · · · · · · · · ·	ΑZ	85013
D BEELINE PARK	0 HAIRE			J I	O*NEILL + JF	?.•′.	,
P 0 B0X 2269		•	•	P 6 BOX 2840			
PAYSON		ΑZ		MIDLAND		ΤX	79702
M CEOTHERMAL KINE 301 W INDIAN SCI	ODONNELL " Tics			G S OKI NURSERY• INC P G BOX 7118	OKI		
PHOENIX	•	ΑZ	85013	SACRAMENTO		C A	95826

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C OLSON			H J OLSON AMAX EXPLORATION, INC.		
1536 ELDORADO			7100 WEST 44TH AVE		
KLAMATH FALLS	OR	97601	WHEAT RIDGE	c.o	80033
R OLSON IHES - GEOTHERMAL DIV. REDISTRIBUTION OF ENERGY.	INC.		L OLVER INDUSTRIAL ECONOMICS DIV DENVER RESEARCH INST		
MARINA DEL REY	CA	90251	DENVER	co	80208
J			L H ORREN - JET PROPULSION LABORATORY 4800 OAK GROVE DRIVE, MS 5	06-3	16
KLAMATH FALLS	OP		PA SADENA	CA	91103
M PACK			M . PACK		
1320 HUMBOLDT, NO. 7			1020 HUMBOLDT. NO. 7		
		89509			89509
M PACK 1020 HUMBOLDT, NO. 7	· -		F C PADDISON APPLIED PHYSICS LABORATORY JOHNS HOPKINS ROAD		,
RENO	NV	89509	LAUREL	ΜĎ	20810
F C PADDISON JOHNS HOPKINS UNIV/APL 83 JOHNS HOPKINS ROAD	· 	·	6 R PARKS P C BOX 1908		
LAUREL .	MD	20801	EUGENE	0R	97401
R PARODI AMERICAN THERMAL RESOURCES 950 E. KATELLA AVE. SUITE			R H PEARL COLORADO GEOLOGICAL SURVEY 1313 SHERMAN AVE., ROOM 71		
ORANGE	CA.	92667		C O	80203
R H PEARL GROUND WATER INVESTIGATION 716 STATE CENTENNIAL BLDG	S	. :	E PEDERSEN ENERGY INCORPORATED : P O BOX 736		
DENVER	СО	80203	IDAHO FALLS	ID.	83401

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J W REEDER STATE OF ALASKA DIV. OF G & GEOPHYS. SURVEY	EOLOGICAL	W K REESER COUNCIL OF ENERGY RESOURCE TRIBES 56:0 SO SYRACUSE CIRCLE
ANCHORAGE	AK 199501	ENGLEWOOD CO 80111
LA. BIO-FUEL. INC. 3630 I-10 SERVICE RD., SU	ITE 105	HENRY J. SEAGROATT CO. INC.
METAIRIE W RICE DEPARTMENT OF ENERGY	LA 70001	BERLIN NY 12022
W RICE DEPARTMENT OF ENERGY DIV. OF GEO. ENERGY WASHINGTON	DC 20461	L F RICE SYSTEMS. SCIENCE & SOFTWAPE P G BOX 1620 LA JOLLA CA :92038 J RICHARDSON
B0X 10100		2190 CALKINS AVE
RENO	NV 89510	IDAHO FALLS ID 83401
J RICHARDSO 2190 CALKINS AVE	N	R RIDDLF GADSEN SCHOOL DISTRICT DIRECTOR OF SPECIAL SERVICES
IDAHO FALLS	ID 83401	ANTHONY NM 88021
B RIEDESEL 3811 JOLIET ST		J F FIKER KLAMATH CONSULTING SERVICE. INC.
DENVER	CO 80239	KLAMATH FALLS CR 97601
S M ROPERTS MIRADOR CORP. P.O. BOX 1475		D P ROPERTS ROBERTS GEOLOGICAL SERVICES 1901 KIPLING STREET
SILVER CITY	NM 88061	LAKEWOOD CO 80215
D B ROBERTSON DENISON MINES (US) INC. N 9107 COUNTRY HOMES BLVD	•,• #4	LAKEWOOD CO 80215 J O ROBERTSON JE REPUBLIC GEOTHERMAL P O BOX 3388
SPOKANE	WA 99218	SANTA FE SPRINGS CA 90670

K S ETEC Slog T211	ROBINSON			P GECTHERMAL ENER PRESIDENT		ION	
CANOGA PARK		CA		NEW YORK		ΝY	10006
	ROEHL			E N			
ROEHL & ASSOCIAT 2601 E CHAPMAN A		11,2		3720 STEPHEN M.	WHITE		
FULLERTON	•	CA	92631	SAN PEDRO		C A	90731
R F DEPT OF GEOLOGIC UNIVERSITY OF TE	ROY .			J M THERMAL POWER CO STAFF ENGINEER	RUDISILL DMPANY		
EL PASO		ТX	7 9968	SAN FRANCISCO		C A	94108
Δ	RUHTERFORD			0	RUSH		
20 E 66TH ST	•			ST. ANN'S HOSPI 800 E. NINTH	IAL		
NEW YORK		NΥ		TRUTH OR CONSEQU		NM	8.7901 .
G P GEO-HEAT UTILIZA OIT		₹		J L VIN 2301 CAMPUS DRIV	SAKAGUCHI		
KLAMATH FALS		OR	97601	IRVINE		C.A	92713
ë J TERRA TEK• INC UNIVERSITY RESEA	SAKASPITA RCH PARK			B J TERRA TEK, INC 420 WAKARA WAY	ATEHRANAR		
SALT LAKE CITY		UT	84108	SALT LAKE CITY		UT	84108
J W FEDERAL BUILDING 12TH AND PENN N	MS:3344			J O CHEVRON RESOURCE P O BOX 3722			
WASHINGTON		DC	20461	SAN FRANCISCO		CA	94119
S	SARBER				SAVAGE		
270 ASH				WOODWARD-CLYDE OF THREE EMBARCADER			
ELKO		NV	89801	SAN FRANCISCO		CA	94111

R G SCHAFF ALASKA DIV OF GEOLOGICAL & GEOPHYSICAL SURVEYS	E G SCHEMPF EXPLORATION ASSOCIATES 7635 E. 42ND PL.
ANCHORAGE AK 99501	TULSA OK 74145
S SCHMENK	M F SCHMIDT 9773 STATE ROUTE 59, APT 7
KLAMATH FALLS OR 97601	KENT OH 44242
C SCHÜBERT D*APPALONIA 10 DUFF ROAD	C E SCHUBERT D*APPOLONIA 10 DUFF RD
PITTSBURG PA 15235	PITTSBURGH PA 15235
A C SCHULTES & SITE A.C. SCHULTES & SONS. INC. P O BOX 411	P SCHURKE UNIVERSITY OF MINNESOTA DEPT• OF CIVIL & MINERAL ENGR•
WOODBURY NJ 08096	MINNEAPOLIS MN 55455
J F SCHUSTER WASHINGTON DEPT OF NATRL RESOURCES	J SCHUT EASTERN OREGON STATE COLLEGE PROGRAM DEVELOPMENT OFFICE
OLYMPIA WA 98504	LAGRANDE OR 97850
M SCOTT SENATOR FRANK FERGUSON OFFICE BOX 131	G SCUDELLA ENERGY RESOURCE & DEVELOPMENT DIV ENERGY & MINERALS DEPARTMENT
KOTZEBUE AL 99752	SANTA FE NM 83401
W S SEFLIG SEFLIG IHES - GEO. SC.	J E SEIPPEL ENERGY SYSTEMS INC P O BOX 182
RESEDA CA 91335	CYPRESS CA 90630
J E SEÎPPEL	E M SEUELL " -
ENERGY SYSTEMS INC P O BOX 182	P.O. BOX 130
CYPRESS CA 90630	VALE CO 97918

W A SHAW GETTY OIL CO P O BOX 5237	-		DR J R SHAW SHAW LAND & ROYALTY CO 3719 ARLINGTON AVENUE #1		
BAKERSFIELD	CA	93308	RIVERSIDE	CA	92506
I SHEINBAUM I. SHEINBAUM CO., INC. 75 WEST GREEN ST., SUITE 2			F SHERMAN DEPT WATER RESOURCES STATEHOUSE		
				ΙD	83720
P SHERWOOD WESTEC SERVICES 405 MARQUETTE AVE NW	,		A SHEW KLAMATH COUNTY ECCNOMIC DE 127 S. 6TH STREET	V. A	ssoc.
			KLAMATH FALLS	0R	97601
A SHEW KLAMATH COUNTY ECONOMIC DEVELOPMENT ASSN•			J SHREVE ELIOT ALLEN & ASSOCIATES P O BOX 2055 ORETECH		
KLAMATH FALLS	0 R	97601	KLAMATH FALLS	OR	97601
G SHULMAN. GEOTHERMAL POWER COMPANY. PRESIDENT	INC.	·	J W SHUPE COLLEGE OF ENGINEERING 2540 DOLE STREET		
ELMIRA	NY	14905	HONOLULU	HI	96822
A SIFFORD IDAHO OFFICE OF ENERGY STATEHOUSE			D SIMUNDSON LL TA P C BOX 410		
ROISE	ID	83720	LOS ALAMOS	NM	87544
I L SMEDLEY CALIF. THERMOHOL REFINERY 18218 PARADISE MTN RD #81			W SMITH RT. 1. BOX 57		
VALLEY CENTER	CA	92082	BONANZA	0R	97623
M J SMITH			D W SMITH		
BOX 1238	;		407 5TH ST		
TWIN FALLS	ID	83301	MARYSVILLE	C A	95901

C W SMITH		.· · ·	C. W. SMITH INTERNATIONAL AIR SERVICE 1710 GILBRETH RD.	CO.	, er er
HONOLULU	ні	96816	BURLINGAME	C.A	94010
C W SMITH INTERNATIONAL AIR SERVICE: 1710 GILBRETH ROAD	.1		C P SMITH INTERNATIONAL ENGINEERING P O BOX 4057	C C	
BURLINGAME	CA	94010	BOISE	In	83704
S SMITH L*EGGS PRODUCTS. INC. P.O. BOX 788			G SNELL INTERCOMP ENGINEERING 1201 DAIRY ASHFORD		
MESILLA PARK	NM		HOUSTON	T.X	77079
J S SNIDER S40 CITY NAT*L TOWER			D A SOMMERS HYDROSCIENCES. INC. 12687 WEST CEDAR DRIVE		
OKLAHOMA CITY	o K	73102		СО	80228
J SONDEREGSE MONTANA BUREAU OF MINES			WIN SORRELLS 6801 CALMONT AVENUE	· -	· · · · · · · · · · · · · · · · · · ·
SUTTE	мт	59761+	FORT WORTH	T'X -	 76116
G SFENCER PRC TOUPS P 0 BOX 5367			M I SPERO BROWN AND CALDWELL 71 E. 28TH AVE		
ORANGE	CA	92667	EUGENE	OR.	97405
J F SPLETTSTOE MINNESOTA GEOLOGICAL SUREY UNIVERSITY OF MINNESOTA	1		J SPRINKLF MALONE & WILLIAMS ARCHITEC LLOYD & HANSON STREETS		
ST. PAUL		55108	SALISBURY	, MD	21801
J SPRINKLE MALONE & WILLIAMS, ARCHITE LLOYD AND HANSON STREETS		. ;	R SQUIRES WESTERN DEV C.H. INC. 1224 PENNSYLVANIA NE		
SALISBURY	MD	• • •	ALBUGUERQUE	NM	87110

W B STAAB GIBBS & HILL, INC 393 7TH AVE			C STADEL WEST COAST DRILLING CO INC 220 ACADEMY ST		
NEW: YORK	NY	10001	MT ANSEL	OR	97362
C STADEL WEST COAST DRILLING OC., I 220 ACADEMY ST			A STARKEY NEW MEXICO ENERGY INSTITUT NEW MEXICO STATE UNIV	TE	
			LAS CRUCES	NM	88003
D W STEEPLES KANSAS GEOLOGICAL SURVEY UNIVERSITY OF KANSAS			M F STFINER PB-KBB INC. 11999 KATY FREEWAY. SUITE	600	
LAWRENCE	KS	66044	HOUSTON	ΤX	77079
D STELLER ESCATECH CORP 3001 RED HILL AVE	· 		A STERN AL STERN ASSOCIATES P 0 BOX 3458		
COSTA MESA	CA	92626	INDIALANTIC	FL	32903
A STERN AL STERN ASSOCIATES 1170 N. HWY. A1A, SUITE 5			R G STEVENS		
SATELLITE BEACH			SAN DIEGO		92101
L.D STEVENS D•APPOLONIA 10 DUFF ROAD			L D STEVENS D•APPOLONIA CONSULTING ENG 10 DEFF RD		•
PITTSBURGH	PA	15235	PITTSBURGH	PΑ	15235
A STEVENSON RIGGER ENGINEERING CORP 550B RIVERDALE DRIVE			T STEWART COULTER STEWART & ASSOCIAT 4409 VISTA WAY	ES,	INC
GLENDALE	CA	91204	DAVIS	C A	95616
T STEWART COULTER • STEWART & ASSOC • •			D. STOCKTON		
4409 VISTA WAY	INC		1416 NINTH ST., ROOM 1310		
DAVID	CA	95616	SACRAMENTO	CA	95814

G W DIVISION OF WATE P O BOX 506				N MCCULLOCH GEOTH 390 NORTH FORBE	ERMAL CORPOR	RATI	DN
CEDAR CITY		UT	84720	LAKEPORT	÷	C.A	95453
DR A M APL/JHU JOHNS HOPKINS RE	STONE			G STOOKESBURÝ DRII 545 N. G STREET	STOOKESBUR' LING CO.	v	
				LAKEVIEW		OR	97630
D 911 PINE GROVE F	STOREY			D PRESIDENT 911 PINE GROVE I	STOREY	- 	
				KLAMATH FALLS			
R G CALIFORNIA DIV C 1416 NINTH ST.,	STRAND F MINES & ROOM 1341	GEOL	0 GY	R H E-E-L ENGINEERS P C BOX 407	STRATEMEYE	R	
SACRAMENTO		CA	95814	SALISBURY		MD	21801
H E DEPT. OF WATER F P O BOX 388	STRICKMEYE	R		S S P 0 60X 111, R0	SUGINE		· .
SACRAMENTO		CA		LOS ANGELES			90051
H US DEPT. OF ENEF 1333 BROADWAY	SULLIVAN			R F KIRKHAM MICHAEL 9110 WEST DODGE	SULLIVAN PO & ASSCC	F	
OAKLAND		CA	94612	OMAHA		ŅE	68114
₩ K 80X 684• 904 CUE	SUMMERS		·	H EXLOG/SMITH P O BOX 666	SUN		·
SOCORRO		NM	87801	COBB		CA	95426
H RIGGER ENGINEERI 550B RIVERDALE E				C A NEW MEXICO STATE PHYSICS DEPARTME		Y	
GLENDALE	ē .	CA	91204	LAS CURCES	· ·	NM	88001

W J TASTLE SOUTHERN TIER E. REGIONAL DEVELOPMENT BOARD	PLAN	NING	W W TAYLOR AQUITAINE COMPANY OF CANA 1700 SELKIRK HOUSE	DA LT	D
BINGHAMTON	NY	13901			
N R TAYLOR INTERNAT*L DISTRICT HEATIN 1735 EYE ST. NW. SUITE 611	G AS	soc.			
WASHINGTON	DC	20006	HAWTHORNE	ΝV	89415
B THOMA			T R THOMAS		
WILLMAR COMMUNITY COLLEGE			11823 E SLAUSON AVENUE		
WILLMAR	MN	56201	SANTA FE SPRINGS	CA	90670
B L THOMAS ENERGY ANALYSIS, INC P O BOX 1508			D M THOMAS HAWAII INST GEOPHYSICS 2525 CORREA RD.		
NORMAN	oĸ	73070	HONOLULU	нІ	96822
A P THOMPSON THIOKOL CORPORATION P O BOX 524			A P THOMPSON THIOKOL CORPORATION 2503 N MAIN		
SALT LAKE CITY	UT	84111	LOGAN	UΤ	
W THOMSON			P THORSON		
P 0 BOX 748			P 0 80X 248		
SANTA YNEZ	CA	93460	WOCDINVILLE		98072
THURSTON HUNT OIL COMPANY MINERALS DIVISION SHITE 28	20		R G TIGHE ECONOMIC DEVELOPMENT CO 329 MAIN STREET		14224
DR A B TIPTON OCCIDENTAL RESEARCH CORP P 0 80x 19601			R TOPPING P G BOX4104		
IRVINE	CA	92713	SANTA ANA	C A	92702

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APPLIED PHYSICS JOHNS HOPKINS RO	LAB			DELTA RESEARCH INSTITUTE BOX 3011	٠	
LAUREL		MD	20810	SAN JOSE	C A	95116
C L	TRAYLOR			R P TREMBLAY STATE OF IDAHO		
1555 CANDELIGHT LAS CRUCES	DRIVE	NM	88001	MANAGEMENT ANALYST	ID	83720
С				D TREXLER NEVADA BUREAU OF MINES & G	FOL D	e v
P.O. BOX 16				UNIVERISTY OF NEVADA		
CASTELLA		CA	96017	RENO	NV	89557
J J VTN INC P O BOX C19529	TRINDLE			J TROISI: WATER• MINERAL HODROCARBON P C BOX 100		
IRVINĖ		CÁ	92713	EAGLE BUTTE	SD	57625
E S	TULLIS			D L TURNER GEOPHYSICAL INSTITUTE		
P 0 BOX 614				UNIVERSITY OF ALASKA		
NEW CASTLE .		UT	84756	FAIRBANKS	ΔK	99701
J R IDAHO POWER CO P O BOX 70	TURNER			F TURPIN MORRISON KNUDSEN CO., INC. P O BOX 7808		
BOISE		10	83707	BOISE	10	83729
R PARSONS-BRINKERF 8301 GREENBORO	ULRICH	<u> </u>		S VADER MORRISON-KNUDSEN COMPANY, P O BOX 7808	INC	
MC CLAIN		VA	22102	BOISE	10	83729
L CER CORPORATION P O BOX 15090	VAN DER HAR	RST		O J VAN ECK IOWA GEOLOGICAL SURVEY 123 N. CAPITOL STREET		
LAS VEGAS		NV	89114	IOWA CITY	I A	522,42

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R F VAN HORN GRIPS COMMISSION			A T VAN HUISEN		
2628 MENDOCINO AVENUE			29456 INDIAN VALLEY RD.		
SANTA ROSA	CA	95401	ROLLING HILLS ESTATES	C A	90274
J VANOLST AQUACULTURE SYSTEMS INTERN	ATIO	N.A.1	J W VARLEY		
11211 SORRENTO VALLEY ROAD		WAL	1200 18TH STREET N W		
SAN DIEGO	CA	92121	WA SHINGTON	рс	20036
J W VARLEY			T VAUGHT		
1200 18TH STREET N W			2001 JEFFERSON DAVIS HIGHW	ДΥ	
WASHINGTON	DC	20036	ARLINGTON	VA	22202
F P VERLING			S D VICKERS BONNEVILLE POWER ADMINISTR	ATIO	NI.
P 0 80X-789			P G BOX 3621	:	•
KLAMATH FALLS	GR	97633	POPTLAND .	0 R	97208
M VGRUM COURY & ASSOCIATES • INC 7625 W 5TH AVE			D WAFFLE CITY ADMINISTRATOR P G BOX 385	*	
			OAKRIDGE	0 R	97463
K.W. S GEOTHERMAL. INC 2730 CHERRY AVE			E L WALSTON• J CENTRAL TEXAS SAVINGS & LO 418 COLEMAN STREET	R. AN A	\$\$0C•
LONG BEACH	CA	90806	MARLIN	TX	76661
F B WARNER PATTERSON TOWER PARTNERSHI 300 PATTERSON PLACE	P .		M W WASHBURN PADEL• INC 1299 N FIRST ST		
BISMARCK	ND	58501	SAN JOSE	CA	95112
B WEBER SOLAR ENERGETICS, INC 301 S WEST ST			B. WERER SOLAR ENERGETICS: INC. 301 S. WEST ST.		
WILMINGHAM	DΕ	19801	WILMINGTON	DE	19801

J B WEINRESS BANK OF AMERICA NT & SA 555 SOUTH FOWER STREET #5	154		E B WELCH PACIFIC INTERMTN MINERALS • 4353 W 5615 S	INC.	· .	
M WERT			B WESTON			
M WERT CH2M HILL 200 SW MARKET ST	. •		B WESTON SCIENCE APPLICATIONS, INC. P 0 BOX 2351		•	
PORTLAND	0R	97201	LA JOLLA	CA.	92038	
Y H WESTPHAL		******	C L WHEELER			
4398 S. AKRON			C L WHEELER WATER RESOURCES DEPARTMENT 555 13TH STREET NE			
ENGLEWOOD	co	80111	SALEM	OR	97310	
DR. J WHELAN CODE 26601 NAVAL WEAPONS CENTER	,		D - WHITE DEPT OF CHEMICAL ENGINEERI UNIVERSITY OF ARIZONA	NG		
CHINA LAKE	CA	9 355 5	TUCSON	ΑZ	85721	
D M WHITE TEXAS ENERGY & NATURAL RES ADVISORY COUNCIL	ES	DR C WHITTLE INSTITUTE FOR ENERGY ANALYSIS OAK RIDGE ASSOCIATED UNIVERSITIES				
AUSTIN	ТX	7 8701	OAK RIDGE			
J WIEGAND ALTERNATIVE ENERGY INC BOX 961		-	J WILGAND ALTERNATIVE ENERGY DIV BOX 961			
			56K 361			
RANCHO SANTA FE	CA	92067	RANCHO SANTA FE	CA	92067	
R WILL			S WILLARD CALIF. ENERGY COMMISSION		·	
5715 SW 176TH AVE			GEOTHERMAL OFFICE MS-59			
ALOHA	OR	97007		CA		
R E WILLIAMS			R WILMOT			
R E WILLIAMS DENVER RESEARCH INSTITUTE UNIVERSITY OF DENVER DENVER CO. 8020		•	BOX 3355			
DENVER	CO	80208	LARAMIE	ШY	82071	

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K FUGRO, INC 3777 LONG BEACH	WILSON . BLVD			G V GEOLOGICAL SURVI P C DRAWER O	EY OF ALABAN	1 ⁻ A	
LONG BEACH		CA	90807	UNIVERISTY		AL	35486
J L NEW ALBION RESOU P O BOX 168	WILSON			DR E J CITIES SERVICE (ENERGY RESOURCE	WITTERHOLT COMPANY S GROUP		
SAN DIEGO							
L PACIFIC GAS & EL GERERATION PLANN	WOITKF ECTRIC COMP ING DEPT. R	ANY OOM	1382	K A NATL CONFERENCE GEOTHERMAL POLIC	WONSTOLEN STATE LEGIS CY PROJECT	TAT	URES
SAN FRANCISCO		CA	94106	DENVER	•	СО	80202
J				C M	WOODRUFF.	JR	
DEPT OF PLANNING DEVELOPMENT HONOLULU		НА	90804	UNIVERSITY STAT		ТX	78712
D J FACILITY ENGR SH P O BOX 527	WOOLLEY		-	F D SRG/COG 575 S. ALAMEDA	WORMAN		
HOUSTON				LAS CRUCES		NM	88001
T C 148 WEST 73RD ST	₩RIGHT			J REGION IV DEVELO 725 SHOSHONE ST	YFATES OPMENT ASSOC	:	
NEW YORK		NY	10023	TWIN FALLS		ID	83301
J N NATIONAL GEOTHER PETROLEUM INFORM	YORDT MAL SERVICE ATION			E J ELLIOT ZAIS & AS 7915 NW SISKIN I	ZAIS SSOC., INC DRIVE		
DENVER	٠	СО	80201	CORVALLIS		0R	97330
M G P O BOX 1107	ZEISLOFT			T RE/SPEC INC P 0 BOX 725	ZELLER		
r u bux 110/				F V BUX 723	i		
COLFAX		C A	95713	RAPID CITY		SD	57709