



## Department of Energy

Office of Scientific and Technical Information

Post Office Box 62

Oak Ridge, Tennessee 37831

August 10, 2016

Re: OSTI-2016-01064-F

Dear Mr. Ravnitzky:

This is in final response to the request for information you sent to the Department of Energy (DOE), Office of Scientific and Technical Information (OSTI) under the Freedom of Information Act (FOIA), 5 U.S.C. 552 on June 22, 2016.

You requested a "copy of records, electronic, or otherwise, of each letter TO and FROM universities, companies, and organizations, from the OSTI 'cold fusion' documents collection." On July 11, 2016, you were emailed an interim response letter informing you of the need for OSTI to obtain release authorization from the Department of Energy. OSTI received notification to release the letters to you in their entirety on August 8, 2016. As a result, OSTI is releasing 72 cold fusion letters in this mailing on a CD-ROM because of the volume and file size of the PDFs.

In addition, there are approximately 13 letters that are currently being reviewed by the DOE's General Counsel Office (GC) for release or redaction. Upon receipt of guidance from GC, OSTI will release in whole or in part.

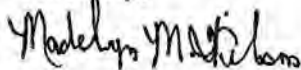
This decision, as well as the adequacy of the search, may be appealed within **90** calendar days from your receipt of this letter pursuant to 10 C.F.R. § 1004.8. Appeals should be addressed to Director, Office of Hearings and Appeals, HG-1, L'Enfant Plaza, U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, D.C. 20585-1615. The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal to [OHA.filings@hq.doe.gov](mailto:OHA.filings@hq.doe.gov), including the phrase "Freedom of Information Appeal" in the subject line. The appeal must contain all of the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either: 1) in the district where you reside; 2) where you have your principal place of business; 3) where DOE's records are situated; or 4) in the District of Columbia.

You may contact OSTI's FOIA Public Liaison, Charlene Luther, Office of Preservation and Technology at 865.576.1138 or by mail at the Department of Energy, Office of Scientific and Technical Information, 1 Science.gov Way, Oak Ridge, TN 37830 for any further assistance and to discuss any aspect of your request. Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer.

The contact information for OGIS is as follows: Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road-OGIS, College Park, Maryland 20740-6001, e-mail at [ogis@nara.gov](mailto:ogis@nara.gov); telephone at 202-741-5770; toll free at 1-877-684-6448; or facsimile at 202-741-5769.

If you have any questions about the processing of the request or about this letter, please contact Madelyn M. Wilson at

Sincerely,



Madelyn M. Wilson  
FOIA Officer  
DOE OSTI  
1 Science.gov Way  
Oak Ridge, TN 37830

March 28, 1989

Mr. Vince Vallquist  
4219 Ashworth N  
Seattle, WA 98103

Dear Mr. Vallquist:

Thank you for your recent letter to Admiral Watkins, Secretary of Energy, and the enclosed copies of your earlier letters to Mr. Tower.

I reviewed your materials very carefully and was quite touched by the sincerity and good will towards our country that emanates from them.

Your suggestions have been noted. The effort you took to communicate them to the Department of Energy is very much appreciated.

Sincerely,

Ryszard Gajewski, Director  
Division of Advanced Energy Projects  
Office of Basic Energy Sciences, ER-16

bcc: S  
US  
MA-1.22  
DO/4  
ER-622 (Fst1)

ES #89-002373  
ER #89-113

PREPARED BY: RGajewski/lh:ER-16:03/28/89:3-5995

FROM: Vallquist, Vince 4219 Ashworth N. Seattle WA 98103		DATE OF DOCUMENT: 3/7/89	DATE RECEIVED: 3/16/89	NO: 89-113
TO: James D. Watkins		LTR: X	MEMO:	REPORT: OTHER:
REG: _____ DUE DATE: _____		ORIG: X	CC:	OTHER:
DESCRIPTION (Must Be Unclassified) Regarding Cold Fusion		CLASSIFICATION/CONTROL MARKINGS: Uncl		
ENCLOSURES:		FILE CODE:	DATE ANSWERED: BY:	
		REFERRED TO:	DATE	RECEIVED BY:
		A. Davies-Action	3/16	Gajewski
		I. Adler-Info	3/16	
REMARKS: ES# 89-002373 Reply direct DUE 3/27/89		DESTRUCTION RECORD: COPY NUMBER(S) _____ PAGE COUNT _____ DATE: _____		
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New Energy Times

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TER:  MEMO:  TWX:  OTHER:  TO: SECY:  DEP SEC:  UN SEC:  OTHER:

FROM: VALLQUIST, VINCE WA 0

REMARKS:

SUBJ: NUCLEAR  
FUSION  
REGARDING COLD FUSION

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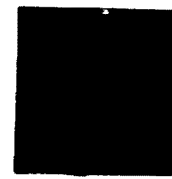
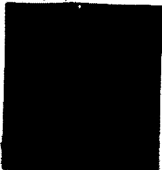
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CONTROL ANALYST: B. ATCHERSON...5075

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New Energy Times

830110



Adm. James Watkins  
Secretary of Energy  
1000 Independence Avenue,  
Washington D.C.

March 7, 1989

Dear Secretary Watkins,

Re: Full Disclosure.  
An event of absolute  
giveness.

# I am forever indebted to your staff  
being kind in replying to my letters  
to which have given extremely articulate  
and refined discussions that again  
measures a team spirit of our nation  
pulling together in one of the most  
entrancingly beautiful discussions in  
our nation's history.

# Please ~~review~~ <sup>attached</sup> the letters I've recently  
sent to Secretary John Tower, that  
focuses upon a possible breakthrough  
idea concerning upon plasma  
accelerators. The March 5 and March 6  
letters proceed from application to  
application, and to my surprise, lead  
to Cold-Fusion SDI utilities in a  
building block theory that is quite  
beautiful in elegance if the rough  
sketch has the merited truth value  
that I believe it does. I'm not a  
scientist, but I feel your brilliant  
team of scientists can take control  
with the field lines of discussion  
that would naturally cascade from  
this kernel of thought recently offered  
in love to DOE, DOD, and NASA, as  
a national treasure. I can only  
recommend to this level, a brief scenario,  
but to delay this letter for my own  
private study would not be in the national  
interest, since you have the necessary expertise  
and talent or genius to full comprehend the

detached  
and enclosed  
papers.

# This week has been very hectic for me in terms of pressure because of my inward sense of the magnitude of these letters, and I feel you can gauge my confidence of order for your brilliant Naval background in the attached portfolio that is meant to be a personal touch of sensitivity of what our Navy means to us in a new look, cold-fusion, power trains, to which a quiet appearance would be implied in a gifted statement of intimacy as a significant that only ~~man~~ understood in terms of hand work created in love for our country. Yes, the attire does cap my recommendation in the new look for the Navy, a confidence taking between men, and the last picture is definitely my artistic expression of SDI portrayed in the most beautiful magnitude of daring eloquence I've ever seen in my life.

# Please take care that this serendipity of events is in keeping with America at her best, knowing sincere hard work miracles have to be performed, yet having a degree of spirited play to ease the tension. Life is at its best with daring confidence taking, daring, pride, team spirit, a dumb, clan that promotes energetic in the certainty that were in the right track and its love.





# My artistic expression for DoD was in fact a vortex of love and enthusiasm for our country, to which I simply revealed my soul, so to speak. The contagion of creativity was a love sonnet to then Secretary Casper and Adam Crowe, but the point I'm making is that America has huge reserves of energy to create engineering feats of engine design and propulsion systems for advanced platforms in the incredible 21st century dimension, and I feel that this energy from DoD, DOE, and NASA have task force dimensions is America at her best, in which her full stride effort simply can't be matched by any other country. In fact, America does set the horizon, the future, for the world, and I love Naval presence in management being steadily at the helm. If this suggestion stream is remotely close to reality, I feel I've done my job as a patriot to our country. I feel that SDI is most practical in a Congressional lens of realism if it is a ground based component to a utility that normally benefits our society, especially with gridlock factors appearing in the horizon.

# I know absolutely that America had to have a new Adam Rickover to take the helm of our nation's destiny, and you the man of highest intellectual prowess to set the course of our nation's effort from every reach of America's intellectual base, and I might add that this Cold-War SDI utility may have serious NATO overtones - in terms of defense reachment, and energy resourcing.

# The sentiment degree of this letter is one to be an enjoyable center of an path, a possibility, for our nation's welfare to which I've dared to give you every artistic sense of meaning in highlights which may be an outlined scope of effect abstraction that is entrusted to you, man to man. I wish my educational background was up to the challenge, but my activity as a research analyst is one of integrating topics and applying presentations with some degree of psychology.

# Yes, energy becomes a love affair, of sophistication of course. Thank you for your time,

Sincerely,

Vince Vallquist  
4214 Ashworth N.  
Seattle WA 98103

JOHN TOWER

March 5, 1989

SECRETARY OF DEFENSE

THE PENTAGON

WASHINGTON DC

RE: PLASMA WAVE-GUIDE ACCELERATOR SUPERIMPOSED INTO COLD-FUSION  
REACTORS FOR FUTURE NAVAL SHIPS

Dear Secretary Tower,

I would like your staff to be keenly aware of a possible breakthrough in cold fusion design which I feel is appropriate at this time for you to consider from the intrinsically evidencing article in the Scientific American magazine dated March 1989, 'Plasma Particle Accelerators' by John Dawson.

The gellpoint of this discussion is one of obtaining a 20 MW beat-wave of about 400 GEV to which electrons could be injected into the plasma wave topside perpendicular to the direction of the electric field (induced by two carbon dioxide lasers with wavelengths of 9.6 and 10.6 microns), similar to what Dr. Joshi is doing per the article, yet I believe the plasma waves can be superimposed within the cold fusion vessel to which the electrons produce X-rays of sufficient energy to yield a muon region of about 1 MW that essentially yields fusion at 100 MW with the required tritium and deuterium injectors inserted at precise points of amplitude with the plasma wave-beat region.

Note that the cold-fusion arrangement could provide its own fuel from fast-neutrons reaching into proton regions for deuterium, and lithium regions for tritium. The vessel itself would have superconductor magnetic confinement within a superconductor magnetic refrigerator which I believe could both be assisted by Josephson Junctions, in which all housekeeping functions would be at 37.5% or 37.5 MW, and 83,750 h.p. derived from another superimposed idea, that of the muon region inducing a high magnetic field perfectly aligned for an alternator that just happens to appear on page 93 of this issue, in which the magnets

are mounted on the rotor and the coils are placed on the stator, which means the electromagnetic stator is flush and interior to the reactor vessel aft end. Note that the required magnetic field holding the plasma within a vacuum region travels ~~forward~~ aft, while the plasma electric field travels aft, completely consistent with the aim of the lasers, and the induced magnetic field is directed transversely inward perfectly matching the superimposed alternator aft. Of course, one could also add a lithium coil blanket in a compact sequencer-condenser arrangement. I also feel that the most critical factor of a 400 GEV plasma, or 20 MW, can be centered within a vessel size of no more than 3.5 m by 2 m square or 6.5 foot width, height and 12 feet in length that produces 134,000 horsepower total and 83,750 hp external. If these figures are somewhat correct, then I believe we have exactly the parameters for a Navy ship or Sub and we can scale a pair of these reactors for an aircraft carrier or cold-fusion HST/SST bomber, and it just tickles me that this may make Admiral Crowe's day. Obviously, the sentient point comes up of muomolecular catalyst resonance at the required temperature of 900 degrees C relative to the plasma wave-guide but I did want you to get the idea that I just couldn't contain myself when I put it together and everything lined up perfectly - I think. Aside from my interest in superpositioning fusion events, I've got a couple of drawings I'd like you to consider for future platform studies which could be examples of cold fusion applications - except for the twin X-wing Navy Patrol Craft. Again, thank you.

Sincerely,

  
Vince Vallquist

4219 Ashworth N  
Seattle Wa 98103

JOHN TOWER

MARCH 6, 1989

SECRETARY OF DEFENSE  
THE PENTAGON  
WASHINGTON DC

RE: PLASMA WAVE-GUIDE ACCELERATOR APPLIED TO A NEW AIRFORCE  
AIRCRAFT - AN EARTH SHIP THAT HAS BEEN PREVIOUSLY TERMED  
A GRAVITY SHIP.

Dear Secretary Tower,

I would like you to attach this letter to the one dated March 5, 1989 to which I gave a description of several novel ideas of superpositioning a wave-guide accelerator within a cold fusion reactor vessel with a power magnitude and inferred deminsion of 100 MW in which the drive from the plasma is dericted to an interior alternator which could provide an estimated 83,750 h.p. based on muon fusion and carbon dioxide lasers as implied in a formal research article appearing in the Scientific American magazine dated March 1989.

This letter now suggests that this arrangement of perhaps seven such cold fusion units with a suitable SMES startup arranged in the lower third of a flying saucer shaped 'Earthship' with a convenient diameter of 100 feet would have a combined energy of 20 TEV or 1,000 GW if infact the cold fusion sizes are approximately 150 MW each in which the lasers are situated at right angles to the lower deck perimeter, and angled by mirrors as the attached drawing indicates. This aircraft would weigh in at approximately a 747 to which a supercomputer linkup would employ the downward directed magnetic force much like a cone as indicated with the current running counterclockwise and resultant <sup>electric</sup> energy vectors dericted radially outward. The key to this huge amount of plasma energy is precisely found in the computer synchronization of wave-beats fore, aft, and transversally - as the drawing indicates.

If the March 5th letter has seroius merit for a breakthrough in cold fusion design for ships, subs, and aircraft as I truly beleive, then you can see the logic in aligning seven such units serially along a flying saucer perimeter, to which the supercomputer would be <sup>mid level</sup> above the reactor base level and the command-pilot area on the top level. The implications may seem startling yet I am forever grateful to your staff if infact plasma wave-guide accelerators joined with cold-fusion units become the crucial elements of launching highly efficient platforms such as conventionally appearing aircraft or breath-taking saucer-shaped aircraft as I've submitted in the past, with some degree of trepidation. If such designs do infact represent reality in the next decade I believe that very serious attention be given to this roughdraft presentation. The most novel concept is my approach to the flying saucer flight management profile.

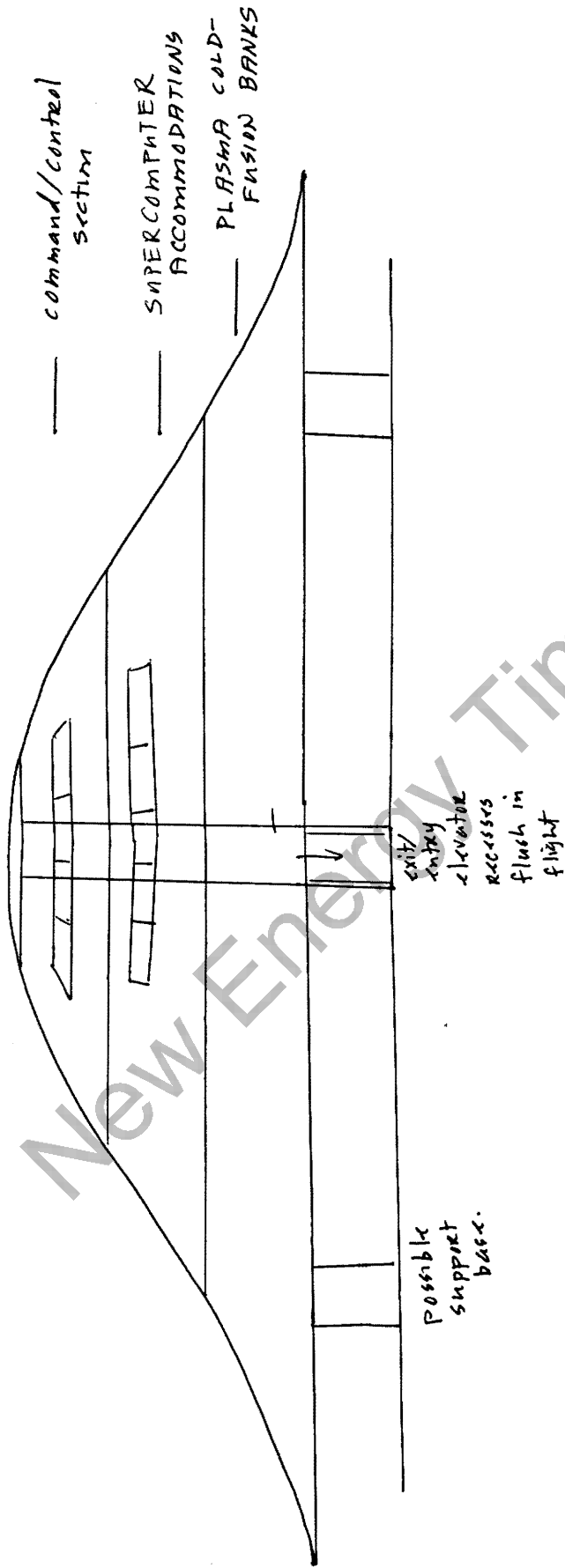
I realize that this Earth Ship concept comes as a shock to everyone but I feel proud to come forward with these ideas with fullest pride in trying to give the Navy and the AirForce my very best of design creativity, that is truly meant well. Certainly the March 5th letter can be dericted to Energy Secretary ADM. James Watkins for possible inclusion in new cold fusion utility studies to which I beleive there would be incredible savings.

This very sincere suggestion stream is dedicated to ADM. Crowe, ADM. Troste, and General Welch, all whom I devote my most fervent admiration and respect to.

Sincerely,

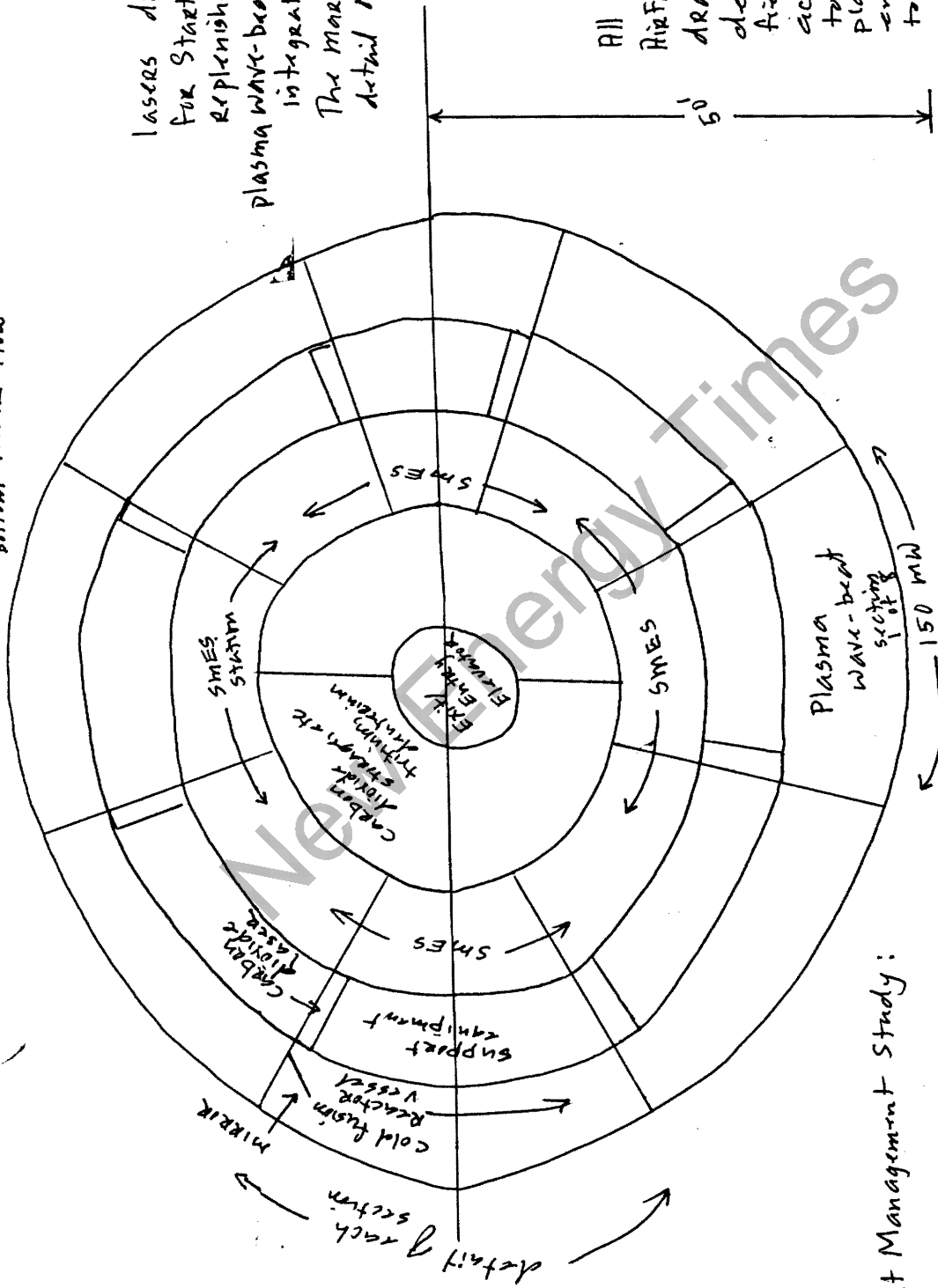


Vince Vallquist  
4219 Ashworth N  
Seattle Wa 98103



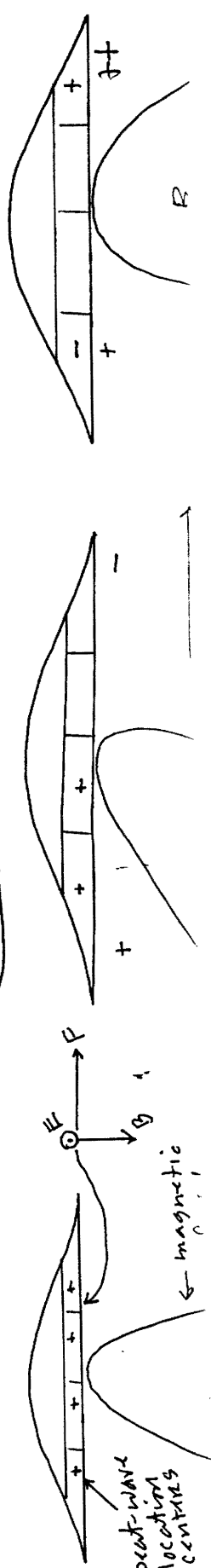
Earth Ship Employing Plasma-Induced  
Magnetic Fields  
See next page

TOP VIEW - widest diameter  
bottom inward flow



Lasers draw from the SMES for Startup, then the fusion replenishes the reserve. All plasma wave-beat banks are linked & integrated by a supercomputer. The March 5 letter goes in detail of each section.

All previously submitted Air Force, Navy, and NASA drawings apply. Please determine magnetic field strengths and acceleration relative to weight and plasma wave-beat energy management to IOTEV, approx.



Flight Management Study:

New Energy Times



# FEARFUL SYMMETRY

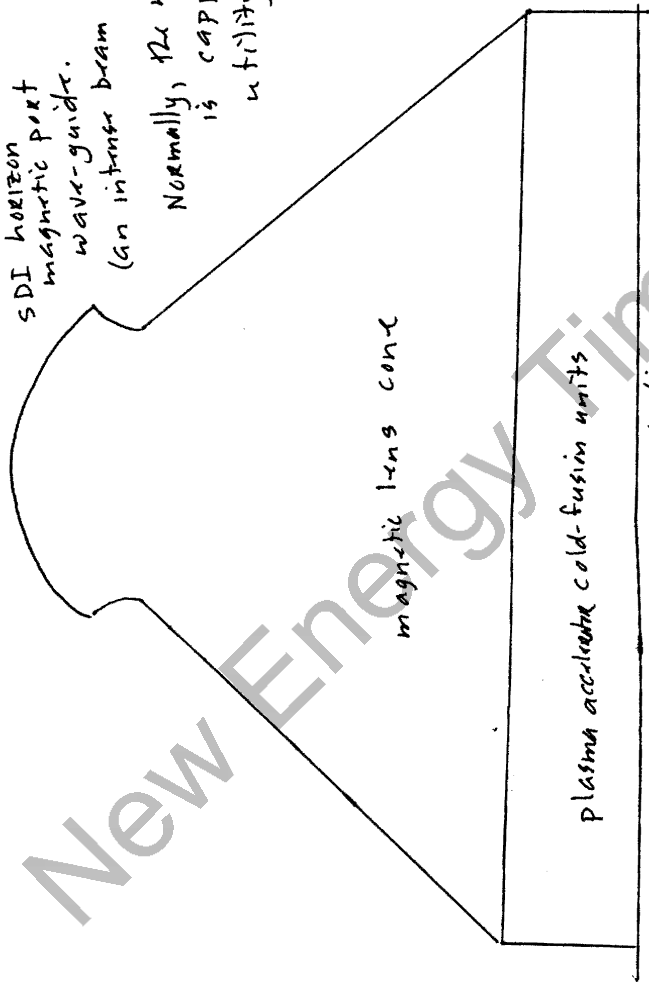
*The Search for Beauty in Modern Physics*



New Ener

This energy efficient SDI utility is affordable.

SDI horizon magnetic port wave-guide. (an intense beam focus).  
 Normally, the magnetic cone is capped during utility usage.



Forces are convenient around perimeter.



accelerator is counter clockwise.

20 TEV Cold-Fusion SDI utility - 7 cold-fusion units within its perimeter.

Estimated Power Requirements:  
 1,000 GW Total Reserve.

50 GW Burst-active repeat capability - SDI total power evidenced.

7 GW utility power that can be scaled up according to fusion event application and SMES requirements.

ER-16  
Gajewski  
02/10/89

February 10, 1989

Mr. Vince Vallquist  
4219 Ashworth N  
Seattle, WA 98103

Dear Mr. Vallquist:

Your recent letter to Secretary-Designate Watkins has been referred to me for response.

As it happens, your favorite, personal hope for a future energy source, cold fusion, is also mine (any many other people's). The problem, as you correctly imply, is in cheaply producing the muons. The only way we know how to make them is to first produce  $\pi$ -mesons (pions) which then naturally decay into muons. Pions are produced by effecting nuclear collisions at very high energies per nucleon. Though the total energies released in a howitzer round, as you suggest, would be tremendous, the energy per nucleon would certainly not be enough to induce nuclear reactions leading to muon production.

Your thoughtfulness in sharing your idea with the Department of Energy is very much appreciated.

Sincerely,

Ryszard Gajewski, Director  
Division of Advanced Energy Projects  
Office of Basic Energy Sciences, ER-16

bcc: US NE DO/4 ER-622 (Fst1)  
DP MA-1.22 IAdler, ER-60

ES#89-000982  
ER#89-0068

PREPARED BY: RGajewski/lh:ER-16:02/10/89:3-5995

FROM: Vallquist, Vince 4219 Ashworth N Seattle WA 98103		DATE OF DOCUMENT: 1/27/89	DATE RECEIVED: 2/9/89	NO: 89-0068
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DUE DATE: 2/23/89		CLASSIFICATION/CONTROL MARKINGS: Uncl		
DESCRIPTION (Must Be Unclassified) Regarding Cold Fusion		FILE CODE:	DATE ANSWERED: BY:	
ENCLOSURES:		REFERRED TO:	DATE	RECEIVED BY:
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		I. Adler-Info	2/9	
REMARKS: ES# 89-000982 Reply direct DUE 2/23/89		DESTRUCTION RECORD: COPY NUMBER(S) _____ PAGE COUNT _____ DATE: _____		
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New Energy Times

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FROM: VALLQUIST, VINCE

WA 0

REMARKS:

SUBJ: PUBLIC INFORMATION  
IDEA/INVENTION  
REGARDING COLD FUSION

FOR USE BY ACTION OFFICE ONLY

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ACTION TO: ER TYPE ACTION: Reply direct SIG OF: ER

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INFORMATION: US DP NE MA1.22 D0/4  
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CONTROL ANALYST: B. ATCHERSON...5075

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New Energy Times

830013



ADM. JAMES WATKINS  
SECRETARY OF ENERGY  
DEPARTMENT OF ENERGY  
WASHINGTON DC

January 27, 1987

RE: COLD-FUSION DIRECT DRIVE ENHANCEMENT

Dear Secretary Watkins,

this letter is very brief that concerns a working principle that may be of fairly significant consequence in upscaling direct drive efficiencies for my favorite, personal hope of energy sourcing: cold-fusion. Please consider employing a bank of 155 mm howitzers to fire the nuclear micropellets into the deuterium/lithium target to create muons by the most efficient means possible - x-rays, and we simply are avoiding incredible accelerator and laser costs to achieve a scaleup necessary for a fairly large fusion reactor. In fact, the target could be within the fusion vessel with the gun muzzels projecting inward, but the important point is that the high velocity is offset by recoil system, and I would imagine the barrel could be made of organometallic/ceramic material (OMs) to insure rapid fire without heat buildup. The guns could be centered bunker-style, or concentric, or below the base in a shaft arrangement, but the main point is that each gun would fire the equivalent of 25 pounds of TNT, times 20 guns, or 500 pounds of TNT, <sup>which</sup> equates to one billion joules of energy. The micropellets employed in this incredibly affordable fashion become the most elegant method of initializing and maintaining fusion energy.

Please note that these howitzers give perfect dimension requirements if grouped horizontally in a cluster, and I assume that pulsed ignition has always been the mainstream of thought. With the above arrangement, we can power subs, surface ships, and planes, although we would have to design a suitable silencer.

Concerning the reactor vessel, I believe OMs could be employed with a ceramic inner surface, since turbine technology is now considering these materials and with regard to new utility ITER generators, I feel that we should at least weigh the possibility of matter/ anti-matter interactions as a direct translation to streamline the turbine interface that could again be downscaled to ship/aircraft propulsion.

After a year long study of Defense applications, I feel cold-fusion is sentimentally perfect as the next step, especially for the Navy. In fact, new materials may completely change our Naval presence - with ceramic construction becoming viable if we can reduce costs and maintain a CAD-CAM section join in which I believe specially-coated CAD-CAM aluminum trays would serve as reusable molds for ceramic pouring and kilning. High energy and high facility costs would be a factor, even with Varian gyrotron microwave lasers, but an article in the February 1989 issue of HIGH TECHNOLOGY may have cracked the problem. A team from Northwestern University (Boston) is using superconductors to deposit thin ceramic films for computer chips, a process that would normally require temperatures in the range of 1,000 to 2,000 degrees C, but they've found a way to apply the ceramic films at 150 to 170 degrees C, and if upscaled to ship section construction, say 6' X 6' rigid sheets reinforced with honeycomb, then again the Navy is well served by your Department assisting in such developments for Defense purposes. This thought is yours to give to ADM. Crowe.

I am ever so sensitive to performatively brilliant articles from SCIENTIFIC AMERICAN and HIGH TECHNOLOGY, to which the public is given a glimpse of the incredible challenges facing your Department, and leading edge companies and university research teams. I hope I've been of some assistance. Thank you.

Sincerely,



VINCE VALLQUIST  
4219 ASHWORTH N  
SEATTLE WA 98103  
(206) 633-0754

New Energy Times