

United States Senate

WASHINGTON, D.C. 20510

August 22, 1979

To: Congressional Liaison
Nuclear Regulator Commission
1717 H Street, N. W.
Washington, D. C. 20555

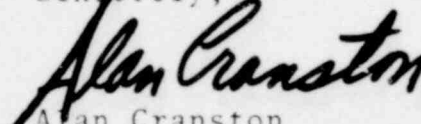
Enclosure from: Mr. Matthew C. Jay
Matthew C. Jan and Associates
Post Office Box 23395
San Diego, California 92123

Re: Please comment on constituent's suggestion re
preventing pipe leaks from occurring in Boiling
Water Reactors.

I forward the attached for your consideration.

Your report, in duplicate, along with the return of the enclosure
will be appreciated.

Sincerely,


Alan Cranston

Please address envelope to:
Senator Alan Cranston
229 Russell Senate Office Building
Washington, D.C. 20510

Attn: Karyn Mandan

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79121 20049

Matthew E. Jay

and ASSOCIATES



WELDING CONSULTANTS



P. O. BOX 23395 • SAN DIEGO, CALIFORNIA 92123 • 714/277-6365

The Honorable Allen Cranston
Room 229
Russell Senate Office Building
Washington, D.C. 20510

April 18, 1979

Dear Senator Cranston:

The problem with cracks and leaks occurring in the weld areas of stainless steel piping system of Boiling Water Reactors has been plaguing the reactor industry the world over for almost twenty years.

General Electric Company has investigated this problem for seven years and all they had to offer is to redesign the piping system utilizing higher cost materials.

The NRC spent 5 years on this problem and it resulted as a carbon-copy of G.E. recommendations.

Two years ago I investigated this problem at my own expense and found that there is no need to redesign the piping systems nor to change the materials presently used (namely Type 304 stainless steel) to eliminate the cracks and leaks.

I found that by making a few changes in the method presently employed in manufacturing stainless-steel pipe, cracks and leaks will not occur when such piping systems are used in conjunction with nuclear reactors or in any other industry which transmits high temperature, high pressure steam.

Having informed all concerned of my findings, namely:

Nuclear Regulatory Commission
General Electric Co.
Electric Power Research Institute
Babcock-Wilcox
Westinghouse Electric
Combustion Engineering
ConEd Chicago
U.S. Navy (Adm. Hyman Rickover)

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I found no one seems to be interested in eliminating this problem, which requires shutting-down each reactor for 10 days or more per year at a cost of \$250,000.00 per day in energy losses and maintenance.

Further investigation reveals that no prior art exists to the process I developed, therefore an application has been made for a patent. Re: Mr. Donald D. Mon, Attorney at Law, 234 East Colorado Blvd., Pasadena, CA 91101, (213) 681-5494. This action will further establish "credibility."

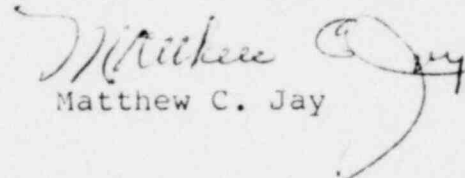
The offer to all concerned involves my compensation. That I would work with all concerned to prove the merits of my process and should it fail to meet any suitable requirements, compensation due me would be null and void.

At the NRC meeting in Washington, D.C., mention was made that if someone high enough in Government would suggest to the industry to look into my process, favorable results would follow to all concerned.

As a specialist in metal-joining, I am presently a consultant to the Dept. of Energy at the Nevada Test Site, Mercury, Nevada. Formerly, consultant to U.S. Air Force Intercontinental Ballistic Missiles, Re: General, Tom Garrity, Deputy Chief.

For a greater understanding of nuclear energy, I am

Respectfully yours,


Matthew C. Jay

cc: Senator Gary Hart
Senator Morris K. Udall
Governor Dixie Lee Ray
Mr. Donald D. Mon

MCJ/sjb

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