

EDO Principal Correspondence Control

FROM: DUE: 09/01/11

EDO CONTROL: G20110613

DOC DT: 08/12/11

FINAL REPLY:

Representative Roscoe G. Bartlett

TO:

Chairman Jaczko

FOR SIGNATURE OF :

** PRI **

CRC NO: 11-0479

Chairman Jaczko

DESC:

ROUTING:

Safeguarding Nuclear Reactors from Natural and
Manmade Disasters and Electromagnetic Pulse (EMP)
(EDATS: SECY-2011-0468)

Borchardt
Weber
Virgilio
Ash
Mamish
OGC/GC
Leeds, NRR
Sheron, RES
Wiggins, NSIR
Burns, OGC
Schmidt, OCA

DATE: 08/15/11

ASSIGNED TO:

CONTACT:

EDO

Rihm

SPECIAL INSTRUCTIONS OR REMARKS:

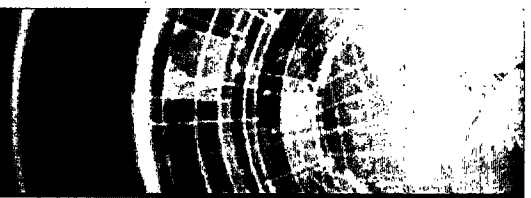
Ref. G20110584/LTR-11-0471.
Please prepare response in accordance with OEDO
Notice 2009-0441-02 (ML093290179). NRR, RES and
NSIR to provide input to Roger Rihm/Glenn Elmers,
OEDO, if required. OEDO will coordinate response
with OGC and OCA.

Template: SECY-017

E-KIDS: SECY-01

EDATS

Electronic Document and Action Tracking System



EDATS Number: SECY-2011-0468

Source: SECY

General Information

Assigned To: OEDO

OEDO Due Date: 9/1/2011 11:00 PM

Other Assignees:

SECY Due Date: 9/6/2011 11:00 PM

Subject: Safeguarding Nuclear Reactors from Natural and Manmade Disasters and Electromagnetic Pulse (EMP)

Description:

CC Routing: NRR; RES; NSIR; OGC; OCA

ADAMS Accession Numbers - Incoming: NONE

Response/Package: NONE

Other Information

Cross Reference Number: G20110613, LTR-11-0479

Staff Initiated: NO

Related Task:

Recurring Item: NO

File Routing: EDATS

Agency Lesson Learned: NO

OEDO Monthly Report Item: NO

Process Information

Action Type: Letter

Priority: Medium

Sensitivity: None

Urgency: NO

Signature Level: Chairman Jaczko

Approval Level: No Approval Required

OEDO Concurrence: YES

OCM Concurrence: NO

OCA Concurrence: NO

Special Instructions: Please prepare response in accordance with OEDO Notice 2009-0441-02 (ML093290179). NRR, RES and NSIR to provide input to Roger Rihm or Glenn Elmers, OEDO, if required. OEDO will coordinate response with OGC and OCA.

Ref. G20110584/LTR-11-0471

Document Information

Originator Name: Representative Roscoe G. Bartlett

Date of Incoming: 8/12/2011

Originating Organization: Congress

Document Received by SECY Date: 8/15/2011

Addressee: Chairman Jaczko

Date Response Requested by Originator: NONE

Incoming Task Received: Letter

OFFICE OF THE SECRETARY
CORRESPONDENCE CONTROL TICKET

Date Printed: Aug 15, 2011 10:48

PAPER NUMBER: LTR-11-0479

LOGGING DATE: 08/12/2011

ACTION OFFICE: EDO

AUTHOR: REP Roscoe Bartlett

AFFILIATION: CONG

ADDRESSEE: CHRM Gregory Jaczko

SUBJECT: Provides a letter from Dr. Graham and Dr. Pry addressing the threat to our nuclear reactors from an electromagnetic pulse incident

ACTION: Signature of Chairman

DISTRIBUTION: RF, OCA to Ack.

LETTER DATE: 08/12/2011

ACKNOWLEDGED No

SPECIAL HANDLING: Commission Correspondence
Ref: LTR-11-0471

NOTES:

FILE LOCATION: ADAMS

DATE DUE: 09/06/2011

DATE SIGNED:

EDO --G20110613

ROSCOE G. BARTLETT
6TH DISTRICT, MARYLAND

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WASHINGTON, DC 20515
(202) 225-2721



**UNITED STATES
HOUSE OF REPRESENTATIVES**

August 12, 2011

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SMALL BUSINESS
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AGRICULTURE, ENERGY AND TRADE

The Honorable Gregory B. Jaczko
Chairman
U.S. Nuclear Regulatory Commission
Mail Stop O-16G4
Washington, D.C. 20555-0001

Dear Chairman Jaczko:

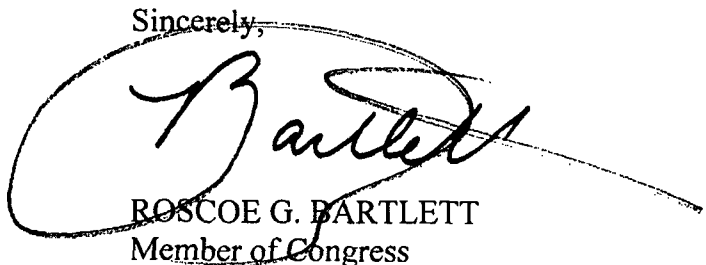
Please find the attached letter from Dr. William R. Graham and Dr. Peter Vincent Pry addressing the threat to our nuclear reactors from an electromagnetic pulse (EMP) incident.

I echo their concern and would request that as your firm plans to address the U.S. nuclear reactors vulnerabilities as a result of a Fukushima-type disaster that you also plan for the very real threat of an EMP incident which could be produced by a terrorist attack on our country or by solar storms.

While I will not reiterate the details of their letter, I would like to offer you a comprehensive briefing which would answer many of the questions you or your staff are sure to have.

Thank you for your attention to this matter. Please contact Sallie Taylor, my legislative assistant, (202-225-9386 or sallie.taylor@mail.house.gov) to set up the briefing or with any questions you might have.

Sincerely,



ROSCOE G. BARTLETT
Member of Congress

RGB:sbt

Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack

Established by Congress through Title X, National Defense Authorization Act for Fiscal Year 2006

The Honorable Gregory B. Jaczko
Chairman
U.S. Nuclear Regulatory Commission
Mail Stop O-16G4
Washington, D.C. 20555-0001

Dear Chairman Jaczko:

I am writing you as the Chairman of the Congressionally mandated Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack as well as the former Science Advisor to the President and Director of the Office of Science and Technology Policy in the Executive Office of the President from 1986 to 1989. This letter is to urge you, as you form plans to protect U.S. nuclear reactors from Fukushima-type disasters where electric power to support nuclear plant operations is lost for a protracted period, to take account of the very real threats from a great geomagnetic storm and from a nuclear EMP attack.

An EMP can be generated naturally by a solar flare or coronal mass ejection from the Sun, which can produce a great geomagnetic storm on the Earth similar to some aspects of an EMP attack from a high-yield nuclear weapon, with similar catastrophic consequences. A great geomagnetic storm could cause the collapse of the electric grid and other critical infrastructures--transportation, communications, banking and finance, food and water--for a protracted period of months or years. A study by the National Academy of Sciences independently confirmed the EMP Commission's assessment that, if a great geomagnetic storm like the 1859 Carrington Event recurred today, recovery of the national electric power grid would take 4 to 10 years.

Such an event could also cause operators of the 108 nuclear plants in the United States to lose the ability to perform a safe, controlled shutdown of their power reactors, producing a Fukushima-like disaster on a large scale.

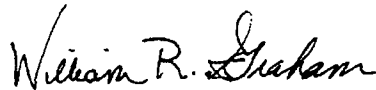
Although great geomagnetic storms are rare, estimated to occur about once a century, most experts assess that we are probably overdue. Indeed, many scientists are concerned that the approaching solar maximum in 2012-2013, characterized by increased solar flares and coronal mass ejections, may produce great geomagnetic storms. The solar maximum recurs every eleven years.

Moreover, there is no doubt that all the capabilities exist for an EMP to be generated by a terrorist or rogue state nuclear-armed missile, perhaps launched off a ship near our shores to preserve anonymity, and burst at high-altitude over the United States. In this manner, a single crude nuclear weapon, lofted by a primitive short-range missile, could generate an EMP that would disable and/or destroy electronics and electric power systems across large, highly populated areas of the continental United States, where many more nuclear power reactors are located than found at Fukushima. Such an attack would also collapse the critical infrastructures, leaving nuclear power plants isolated from external support, including from the electric power grid, for a protracted period of at least months and probably years. Given the current state of unpreparedness, a nuclear EMP attack could cause Fukushima-like disasters nationwide.

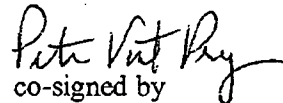
Therefore, I urge you to implement the policies, planning, emergency control system protection, and technical safeguards that are so urgently needed to protect nuclear reactors from natural and manmade disasters--including EMP events.

Please inform me of the response you and the NRC plan to take in response to this letter and the threat of both natural and adversary-induced EMP damage to the nuclear power reactors of the United States.

Sincerely,



Dr. William R. Graham
Chairman
Commission to Assess the Threat to the United States
from Electromagnetic Pulse (EMP) Attack



co-signed by
Dr. Peter Vincent Pry
President
EMPact America
301-481-4715

cc: The Honorable Steven Chu, Secretary of Energy
The Honorable John P. Holdren, Director, Office of Science and Technology Policy,
The White House
Thomas E. Donilon, National Security Advisor to the President
Senator Jeff Bingaman, Chairman, Committee on Energy and Natural Resources
Senator Lisa Murkowski, Ranking Member, Committee on Energy and Natural Resources
Senator Joseph Lieberman, Chairman, Committee on Homeland Security and Governmental
Affairs
Senator Susan Collins, Ranking Member, Committee on Homeland Security and
Governmental Affairs
Senator Carl Levin, Chairman, Senate Armed Services Committee
Senator John McCain, Ranking Member, Senate Armed Services Committee
Rep. Fred Upton, Chairman, Committee on Energy and Commerce
Rep. Henry Waxman, Ranking Member, Committee on Energy and Commerce
Rep. Peter King, Chairman, Committee on Homeland Security
Rep. Bennie Thompson, Ranking Member, Committee on Homeland Security
Rep. Buck McKeon, Chairman, House Armed Services Committee
Rep. Adam Smith, Ranking Member, House Armed Services Committee
Rep. Roscoe Bartlett, Co-Chair, Congressional Caucus on EMP
Rep. Trent Franks, Co-Chair, Congressional Caucus on EMP
Rep. Yvette Clarke, Co-Chair, Congressional Caucus on EMP