

DR. PETER VINCENT PRY

RESPONSE TO LOUISIANA PUBLIC SERVICE COMMISSION

REQUEST FOR PROPOSALS 16-12

FOR

OUTSIDE REGULATORY CONSULTANT

ON

ELECTROMAGNETIC PULSE (EMP)

SUBMITTAL DATE:

ON OR BEFORE JULY 15, 2016

PREPARED AND SUBMITTED BY:

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BACKGROUND

The Louisiana Public Service Commission (LPSC), in accordance with the requirements of the LPSC's General Order dated November 10, 2014 regarding the selection of contract employees to represent the Commission, issued a Request for Proposals to **outside regulatory consultants** who will assist the Commission in reviewing the issues related to electromagnetic pulse (EMP), the threat it poses to Commission-jurisdictional utilities, and steps that may be taken to mitigate those threats. Currently the Commission, in docket R-32702, is in the process of studying both the cyber and physical security of Commission-jurisdictional utilities. Some initial discovery has been issued and received regarding EMP-related issues. However, it is contemplated that the issues regarding EMP will be further studied in more detail in either a standalone EMP docket, or in a physical security docket. Cyber security issues will be addressed in a standalone docket as well. Specifically, for purposes of this RFP, **bids are being solicited to assist regarding the EMP issue only**. The Commission reserves the right to reject any proposal or decline to undertake this review at this time.

DR. PRY'S QUALIFICATIONS IN GENERAL

My unique qualifications to advise the Louisiana Public Service Commission on EMP threats to the electric grid and other critical infrastructures is based on long professional service as one of the nation's leading experts on the full range of EMP threats, including:

- Natural EMP from solar storms, so-called "Geo-Magnetic Disturbances" (GMD) in the parlance of industry, more accurately known to science as Magneto-Hydro-Dynamic EMP (MHD EMP). NASA estimates the probability of recurrence of a solar super-storm, like the 1859 Carrington Event, that would have catastrophic consequences for the unprotected electric grid and society, to be 12 percent per decade. The threat from a natural EMP event is inevitable.
- Nuclear EMP resulting from the high-altitude detonation of a nuclear weapon (HEMP) or from a nuclear ground-burst (SREMP). Russia, China, North Korea, and Iran (the world's leading sponsor of international terrorism) in their military doctrines and exercises all have existing plans and capabilities or aspirations to make a nuclear EMP attack on the United States.
- Non-Nuclear EMP from radiofrequency weapons. Terrorists and criminals in Europe and Asia have already used RF weapons. It is only a matter of time before the U.S. electric grid experiences non-nuclear EMP attack.

Few have expertise in all three of the EMP threat areas. Fewer still, and probably none, have my experience serving as the EMP expert for the Central Intelligence Agency (1985-1995), the U.S. Congress House Armed Services Committee (1995-2000), the Congressional EMP Commission (2001-2008), EMPact America (2009-2011) the EMP Task Force on National and Homeland Security (a Congressional Advisory Board, 2011-today) and now as Executive Director of the returned Congressional EMP Commission. **My biography and resume are appended.**

I am the single foremost expert on hybrid warfare involving EMP, Cyber, and sabotage attacks in combination, having literally "written the book" on this new way of warfare in *Blackout Wars* a copy of which has been submitted with this proposal.

Indeed, in my current role as Executive Director of the EMP Task Force on National and

Homeland Security, my expertise has been instrumental in advancing grid security against EMP and other threats by working with State governments in Maine, Virginia, Florida, and Arizona--the only State governments so far to have enacted and implemented legislative initiatives to protect their grids from EMP.

In my book *Blackout Wars: State Initiatives To Achieve Preparedness Against An Electromagnetic Pulse (EMP) Catastrophe* see Chapter IV "Maine", Chapter V "Virginia", Chapter VI "Arizona", and Chapter VII "Florida" and the LPSC can judge for itself my accomplishments and whether I might be helpful in Louisiana.

The LPSC might also want to query about my expertise and helpfulness to some of those state legislators who led the effort to advance electric grid security in their states: for example, Maine State Representative Andrea Boland sixwings@metrocast.net and Florida State Representative Michelle Rehwinkel Vasilinda MichelleRehwinkel@gmail.com

The LPSC may also want to query about my expertise and role in efforts to protect the electric grid and advance national EMP preparedness at the Federal-level from:

--Rep. Trent Franks, Chairman of the Congressional EMP Caucus, through his Chief of Staff Jonathan Hayes Jonathan.Hayes@mail.house.gov and his EMP Staffer Andrew Braun Andrew.Braun@mail.house.gov

--Dr. William Graham, Chairman of the Congressional EMP Commission, President Reagan's Science Advisor and director of NASA WRGraham@socal.rr.com (GRAHAM E-MAIL CONFIDENTIAL NOT FOR CIRCULATION)

--Ambassador R. James Woolsey, former Director of CIA and Central Intelligence Jim@odgroupLLC.com (WOOLSEY E-MAIL CONFIDENTIAL NOT FOR CIRCULATION)

The LPSC might also want to query about my expertise and role in efforts to advance EMP awareness and to protect electric grids internationally:

--Canada's David Harris, Director, International Intelligence Program, INSIGNISS insigniss@rogers.com (HARRIS E-MAIL CONFIDENTIAL NOT FOR CIRCULATION)

--Canada's Brian Hay, Director, Mackenzie Institute dbhay@crisispecialists.com (HAY E-MAIL CONFIDENTIAL NOT FOR CIRCULATION)

Finally, I welcome the opportunity to help the LPSC protect the Louisiana electric grid, as my highest professional and personal priority is advancing electric grid security in all the states and nationally. I am happily and enthusiastically prepared to help the LPSC protect the grid and the people of Louisiana from the existential threat that is EMP.

PLAN OF ACTION

My role as a contract employee to the Louisiana Public Service Commission would be the following:

- 1) To help the LPSC frame questions to the utilities about their preparedness, or lack thereof, to protect and recover the electric grid from natural and manmade EMP.
- 2) To help the LPSC analyze the veracity, competency, and adequacy of utility responses to LPSC queries about their preparedness, or lack thereof, to protect and recover the electric grid from natural and manmade EMP.
- 3) To conduct inspections on behalf of the LPSC of utility facilities to assess their preparedness, or lack thereof, to protect the electric grid from natural and manmade EMP.
- 4) To help organize and participate in hearings, meetings, briefings, and conferences to establish the facts about electric grid vulnerability to EMP and industry preparedness.
- 5) To perform analysis and make recommendations to the LPSC to protect the electric grid from natural and manmade EMP.

If the LPSC wishes, I can draw upon the additional vast expertise represented by the Congressional EMP Commission and the EMP Task Force on National and Homeland Security.

This preliminary work plan will form the basis of the detailed work plan that will be agreed upon with Commission Staff and used to perform this assignment.

COST PROPOSAL

For the Louisiana Public Service Commission's consideration, the total labor cost for the above plan of action is estimated as \$120,000 based on my rate as a Department of Defense consultant \$400/hour working 300 hours. **If this project takes less consulting hours, the total cost would be reduced accordingly.**

Estimated total expenses necessary for completion of the project, including travel expenses, would not exceed \$24,000.

Total estimated costs for this project would not exceed \$144,000 (\$120,000 professional fees + \$24,000 expenses).

As required by the November 10, 2014 General Order, all bills will be rendered monthly and shall specifically identify and describe all work performed, the person performing such work, the time and charge for such work, and shall additionally show the total amount billed to date and the authorized original estimate. Bills will be rendered in strict accordance with the Commission's guidelines.

Expenses, where applicable, shall be reimbursed at state authorized rates as specified in the Travel Policies and Procedures Memorandum issued by the State of Louisiana, Division of Administration in effect at the time such expenses are incurred ("Allowable Expenses"). Any expenses that exceed the Allowable Expenses shall be borne by the contract employee and shall not be reimbursed by either the Commission, or the correspondent utility, unless otherwise specified by the Commission.

CONFLICTS OF INTEREST

I am unaware of any conflicts of interest that would impair my ability to serve the Louisiana Public Service Commission in the capacity described in this proposal. Below are outlined disclosures that do not present any conflicts of interest, but are being included for the purpose of full disclosure:

1. I currently serve as Executive Director of the Commission To Assess The Threat To The United States From Electromagnetic Pulse (EMP) Attack, a Congressional Commission also known as the Congressional EMP Commission.
2. I currently serve as the Executive Director of the EMP Task Force on National and Homeland Security, a Congressional Advisory Board and 501(c)3 nonprofit.

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Dr. Peter Vincent Pry is Executive Director of the newly re-established Congressional Electromagnetic Pulse (EMP) Commission, and of the Task Force on National and Homeland Security, a Congressional Advisory Board dedicated to achieving protection of the United States from electromagnetic pulse (EMP), Cyber Warfare, mass destruction terrorism and other threats to civilian critical infrastructures, on an accelerated basis. Dr. Pry also is Director of the United States Nuclear Strategy Forum, an advisory board to Congress on policies to counter Weapons of Mass Destruction. Foreign governments, including the United Kingdom, Israel, Canada, and Kazakhstan consult with Dr. Pry on EMP, Cyber, and other strategic threats.

Dr. Pry served on the staffs of the Congressional Commission on the Strategic Posture of the United States (2008-2009); the Commission on the New Strategic Posture of the United States (2006-2008); and the Commission to Assess the Threat to the United States from Electromagnetic Pulse (EMP) Attack (2001-2008).

Dr. Pry served as Professional Staff on the House Armed Services Committee (HASC) of the U.S. Congress, with portfolios in nuclear strategy, WMD, Russia, China, NATO, the Middle East, Intelligence, and Terrorism (1995-2001). While serving on the HASC, Dr. Pry was chief advisor to the Vice Chairman of the House Armed Services Committee and the Vice Chairman of the House Homeland Security Committee, and to the Chairman of the Terrorism Panel. Dr. Pry played a key role: running hearings in Congress that warned terrorists and rogue states could pose EMP and Cyber threats, establishing the Congressional EMP Commission, helping the Commission develop plans to protect the United States from EMP and Cyber Warfare, and working closely with senior scientists and the nation's top experts on critical infrastructures, EMP and Cyber Warfare.

Dr. Pry was an Intelligence Officer with the Central Intelligence Agency responsible for analyzing Soviet and Russian nuclear strategy, operational plans, military doctrine, threat perceptions, and developing U.S. paradigms for strategic warning (1985-1995). He also served as a Verification Analyst at the U.S. Arms Control and Disarmament Agency responsible for assessing Soviet arms control treaty compliance (1984-1985).

Dr. Pry has written numerous books on national security issues, including *Blackout Wars*; *Apocalypse Unknown: The Struggle To Protect America From An Electromagnetic Pulse Catastrophe*; *Electric Armageddon: Civil-Military Preparedness For An Electromagnetic Pulse Catastrophe*; *War Scare: Russia and America on the Nuclear Brink*; *Nuclear Wars: Exchanges and Outcomes*; *The Strategic Nuclear Balance: And Why It Matters*; and *Israel's Nuclear Arsenal*. Dr. Pry often appears on TV and radio as an expert on national security issues. The BBC made his book *War Scare* into a two-hour TV documentary *Soviet War Scare 1983* and his book *Electric Armageddon* was the basis for another TV documentary *Electronic Armageddon* made by the National Geographic.

RESUME
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PROFESSIONAL

- 2011-Present Director: **Congressional EMP Commission; EMP Task Force on National and Homeland Security; U.S. Nuclear Strategy Forum.**
- 2009-2011 Advisor, Rep. Roscoe Bartlett (Chairman, Air and Land Forces Subcommittee); Senior Staff, **Congressional Strategic Posture Commission**; Director, **Commission on the Implementation of the New Strategic Posture of the United States**; President **EMPAct America.**
- 2001-2008 Director, **Congressional EMP Commission.**
- 1995-2001 **House Armed Services Committee**, Professional Staff: Weapons of Mass Destruction, Terrorism, Intelligence, NATO, Russia and China; Advisor to Rep. Curt Weldon (Vice Chairman Committee on Armed Services, Vice Chairman Committee on Homeland Security) and Rep. James Saxton (Chairman, Terrorism Subcommittee).
- 1985-1995 **Central Intelligence Agency**, Intelligence Officer: Soviet and Russian nuclear weapons, doctrine, strategy, and operations.
- 1984-1985 **U.S. Arms Control and Disarmament Agency**, Verification Analyst.
- 1980-1983 Volunteer to **Refugee Resettlement Program** for refugees from Vietnam, Cambodia, and Laos.
- 1976-1979 **College Instructor** U.S. History and Military History at SUNY Binghamton, Empire State College, Mohawk Valley Community College.
- 1974-1975 **Intern New York State Assembly**, Majority Whip Glen H. Harris.

EDUCATION

- Certificate Nuclear Weapons Design, USAF Weapons Lab & Los Alamos National Laboratory (1987)
- Ph.D. University of Southern California, International Relations/Strategic Studies (1985 cum laude).
- Ph.D./MA SUNY Binghamton, U.S. History (1979).
- BA SUNY Utica/Rome, Political Science (1976 summa cum laude).
- AA Herkimer County Community College, Social Science (1975 summa cum laude).

BOOKS: *Blackout Wars* (2015); *Apocalypse Unknown* (2013); *Electric Armageddon* (2013); *Critical National Infrastructures* (EMP Commission Report 2008); *Countdown To Terror* (Regnery 2005); *Report of the Commission to Assess the Threat to the United States From EMP Attack* (2004); *War Scare: Russia and America on the Nuclear Brink* (Praeger 1999); *Nuclear Wars: Exchanges and Outcomes* (Crane Russak 1990); *The Strategic Nuclear Balance: And Why It Matters* (Crane Russak 1990); *Israel's Nuclear Arsenal* (Westview and Croom Helm 1984); *The Last Ditch* (Gordon Press Military Science Series 1977).

TV DOCUMENTARIES: *Sun Storm* (BBC Discovery 2012), *Electronic Armageddon* (National Geographic 2009), *Soviet War Scare 1983* (BBC 2007).