

June 14, 2004

Mr. Keith D. Young
Vice President and Chief Nuclear Officer
Union Electric Company
Post Office Box 620
Fulton, MO 65251

SUBJECT: CALLAWAY PLANT, UNIT 1 - USE OF ENCRYPTION SOFTWARE FOR
SECURE TRANSMISSION OF SAFEGUARDS INFORMATION
(TAC NO. MC3212)

Dear Mr. Young:

By letter dated May 13, 2004, you requested approval to use encryption software for the transmission of Safeguards Information (SGI) for Callaway Plant, Unit 1. Specifically, you requested approval for the use of Pretty Good Protection (PGP) Software (Enterprise, Corporate, or Personal) Desktop Version 8.0 or the latest validated version developed with PGP Software Development Kit (SDK) 3.0.3 for encryption of sensitive unclassified SGI.

Title 10 of the *Code of Federal Regulations* (10 CFR) Section 73.21(g)(3) states, in part, “. . . Safeguards Information shall be transmitted only by protected telecommunication circuits (including facsimile) approved by the NRC.” The Nuclear Regulatory Commission (NRC) considers those encryption systems that the National Institute of Standards and Technology (NIST) has determined conform to the Security Requirements for Cryptographic Modules in Federal Information Processing Standard (FIPS) 140-2, as being acceptable. The Secretary of Commerce has made use of Cryptographic Module Validation Program products mandatory and binding for Federal agencies when a Federal agency determines that cryptography is necessary for protecting sensitive information.

PGP Software Corporate Desktop Version 8.0 was developed with PGP SDK 3.0.3. NIST Certificate, Number 394, validates compliance of this software development tool with FIPS 140-2 requirements. Therefore, the NRC staff finds the use of this encryption software acceptable for processing and transmitting SGI electronically for your site. Later versions of PGP Software Corporate Desktop are also acceptable provided that:

1. They were developed using a software development tool e.g., PGP SDK 3.0.3 that meets and is validated by NIST to FIPS 140-2 requirements.
2. You notify the NRC of your intention to update your encryption software 30 days prior to its first use. When notifying the NRC, include a description of the new software you will be using and provide a statement indicating NIST certification of the software development tool.

It is important to remind you that in accordance with 10 CFR 73.21(a), you are required to establish and maintain an information protection system that satisfies 10 CFR 73.21(b) through (i). Compliance with the provisions of 10 CFR 73.21, including the use of encryption software for transmittal of SGI, is mandatory and inspectable.

Additionally, only one public key is to be generated per site. The PGP file containing the public key must be named according to the following syntax: LastName_FirstName_SiteName.asc. This naming convention represents the organizational point of contact indicated as owning the key-pair.

As stated in letter dated May 5, 2004, from R. P. Zimmerman, NRC, Office of Nuclear Security and Incident Response, to Stephen D. Floyd, Nuclear Energy Institute (NEI), please provide the public key for transmitting sensitive, unclassified SGI and the point of contact information (name, telephone number and e-mail address) to NEI and the NRC points of contact provided below. Once this information has been provided, we will provide a copy of the NRC public key to your point of contact. All SGI holders must employ an appropriate credentialing process to verify that individuals providing public keys are legitimate users. Private keys must be controlled as SGI.

The NRC point of contact for all transmittals related to the review and approval of the supplemental responses to the security orders is Mr. Bhalchandra K. Vaidya, Project Manager, Security Plan Review Team, Division of Licensing Project Management, who can be reached at (301)415-3308, or via e-mail at bkv@nrc.gov. For transmittal of other SGI, and for public key coordination, the NRC point of contact is Mr. Louis Grosman, Office of the Chief Information Officer, who can be contacted at (301)415-5826, or via e-mail at lhg@nrc.gov. As coordinated with the NEI, the industry point of contact for public key coordination is Mr. James W. Davis, who can be reached at (202)739-8105 and via e-mail at jwd@nei.org.

Encrypted SGI information shall be transmitted as attachments to an e-mail directed to sprt@nrc.gov. The e-mail message must also contain the name of the NRC staff member who is to receive the attachments.

If you have any questions, please contact me at (301)415-3308.

Sincerely,

/RA/

Bhalchandra K. Vaidya, Project Manager
Security Plan Review Team
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-483

cc: See next page

It is important to remind you that in accordance with 10 CFR 73.21(a), you are required to establish and maintain an information protection system that satisfies 10 CFR 73.21(b) through (i). Compliance with the provisions of 10 CFR 73.21, including the use of encryption software for transmittal of SGI, is mandatory and inspectable.

Additionally, only one public key is to be generated per site. The PGP file containing the public key must be named according to the following syntax: LastName_FirstName_SiteName.asc. This naming convention represents the organizational point of contact indicated as owning the key-pair.

As stated in letter dated May 5, 2004, from R. P. Zimmerman, NRC, Office of Nuclear Security and Incident Response, to Stephen D. Floyd, Nuclear Energy Institute (NEI), please provide the public key for transmitting sensitive, unclassified SGI and the point of contact information (name, telephone number and e-mail address) to NEI and the NRC points of contact provided below. Once this information has been provided, we will provide a copy of the NRC public key to your point of contact. All SGI holders must employ an appropriate credentialing process to verify that individuals providing public keys are legitimate users. Private keys must be controlled as SGI.

The NRC point of contact for all transmittals related to the review and approval of the supplemental responses to the security orders is Mr. Bhalchandra K. Vaidya, Project Manager, Security Plan Review Team, Division of Licensing Project Management, who can be reached at (301)415-3308, or via e-mail at bkv@nrc.gov. For transmittal of other SGI, and for public key coordination, the NRC point of contact is Mr. Louis Grosman, Office of the Chief Information Officer, who can be contacted at (301)415-5826, or via e-mail at lhg@nrc.gov. As coordinated with the NEI, the industry point of contact for public key coordination is Mr. James W. Davis, who can be reached at (202)739-8105 and via e-mail at jwd@nei.org.

Encrypted SGI information shall be transmitted as attachments to an e-mail directed to sprt@nrc.gov. The e-mail message must also contain the name of the NRC staff member who is to receive the attachments.

If you have any questions, please contact me at (301)415-3308.

Sincerely,
/RA/
 Bhalchandra K. Vaidya, Project Manager
 Security Plan Review Team
 Division of Licensing Project Management
 Office of Nuclear Reactor Regulation

Docket No. 50-483

cc: See next page

DISTRIBUTION:

PUBLIC	OGC	ACRS	
SPRT R/F	LHGrosman	JPeralta	
SMorris	JNakoski	CHawes	JDavis, NEI
J. Donohew			
S. Dembek			
H. Berkow			
A. Howell, RIV			

ADAMS Accession No.: ML041670680

OFFICE	SPRT/PM	SPRT/LA	NSIR/DNS/SC	OCIO/PMAS	SPRT/SC
NAME	BVaidya	CHawes	SMorris	LHGrosman	JNakoski:RF for
DATE	06/10/04	06/10/04	06/14/04	06/14/04	06/14/04

Callaway Plant, Unit 1

cc:

Professional Nuclear Consulting, Inc.
19041 Raines Drive
Derwood, MD 20855

John O'Neill, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, N.W.
Washington, D.C. 20037

Mr. Mark A. Reidmeyer, Regional
Regulatory Affairs Supervisor
Regulatory Affairs
AmerenUE
P.O. Box 620
Fulton, MO 65251

U.S. Nuclear Regulatory Commission
Resident Inspector Office
8201 NRC Road
Steedman, MO 65077-1302

Mr. Chris Younie
Manager, Quality Assurance
AmerenUE
P.O. Box 620
Fulton, MO 65251

Manager - Electric Department
Missouri Public Service Commission
301 W. High
P.O. Box 360
Jefferson City, MO 65102

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

Mr. Ronald A. Kucera
Deputy Director for Public Policy
Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102

Mr. Rick A. Muench
President and Chief Executive Officer
Wolf Creek Nuclear Operating Corporation
P.O. Box 411
Burlington, KA 66839

Mr. Dan I. Bolef, President
Kay Drey, Representative
Board of Directors Coalition for the
Environment
6267 Delmar Boulevard
University City, MO 63130

Mr. Lee Fritz, Presiding Commissioner
Callaway County Court House
10 East Fifth Street
Fulton, MO 65151

Mr. David E. Shafer
Superintendent, Licensing
Regulatory Affairs
AmerenUE
P.O. Box 66149, MC 470
St. Louis, MO 63166-6149

Mr. Keith D. Young
Manager, Regulatory Affairs
AmerenUE
P.O. Box 620
Fulton, MO 65251

Mr. Scott Clardy, Director
Section for Environmental Public Health
P.O. Box 570
Jefferson City, MO 65102-0570

Certrec Corporation
4200 South Hulen, Suite 630
Fort Worth, TX 76109