

May 14, 2018

SUBJECT: ADAMS ADDITION – EMAIL RECORD TO SUPPORT COMMISSION  
PAPER—OPTIONS AND RECOMMENDATIONS FOR PHYSICAL SECURITY  
FOR ADVANCED REACTORS

FROM: William D. Reckley, Senior Project Manager */R/*  
Advanced Reactor and Policy Branch  
Division of Safety Systems, Risk Assessment and Advanced  
Reactors  
Office of New Reactors

The attached email was received during the development of a white paper (ADAMS Accession No. ML17333A524), which was used to support public interactions and ultimately the Commission Paper “Options and Recommendations for Physical Security for Advanced Reactors” (ADAMS Accession No. ML18052B032). The white paper and initial drafts of the Commission Paper included the sentence:

... The staff estimates the current requirement adds approximately 5 million dollars per year to the operating costs of a nuclear power plant. ...

The staff estimate was based on rough assumptions of 50 armed responders being required to provide the minimum number of 10 responders per shift with an estimated pay/benefits cost of \$100,000 per responder. Interactions with representatives from the Nuclear Energy Institute (NEI) during the public meetings on this topic included a question on their insights related to the cost estimate. NEI had performed a survey of their members as part of their activities in support of the white paper “Proposed Physical Security Requirements for Advanced Reactor Technologies,” dated December 14, 2016 (ADAMS Accession No. ML17026A474), and the related interactions with the NRC staff. Given the general agreement in overall costs of the current regulatory requirements (\$5M rough staff estimate versus \$5.1M from NEI survey results), the staff deferred a more formal request for the NEI survey results until the development of the regulatory basis for a possible rulemaking (should the Commission direct the staff to pursue such a rulemaking). However, questions related to the staff’s cost estimate were raised during the concurrence process and so the attached email is being preserved and used to support the inclusion of the costs associated with the current regulatory requirements within the Commission Paper.

Address any questions to Bill Reckley at (301) 415-7490.

**From:** YOUNG, David  
**To:** [Reckley, William](#)  
**Cc:** [TSCHILTZ, Michael](#); [ZACHARIAH, Thomas](#)  
**Subject:** [External\_Sender] Preliminary Armed Responder Cost Information  
**Date:** Tuesday, September 19, 2017 12:24:21 PM

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Bill,

You asked:

"Do you have an estimate for what the current requirement for 10 armed responders translates to in terms of **number of employees**, **cost per employee**, and ultimately **cost per year**?"

As discussed this morning, the preliminary average numbers are:

Number of employees: 53  
Cost per employee: \$95,900 (all in with salary and benefits)  
Cost per year:  $53 * \$95,900 = \$5.1M$

Feel free to contact me with any questions.

David

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**From:** YOUNG, David [<mailto:dly@nei.org>]  
**Sent:** Tuesday, September 19, 2017 11:06 AM  
**To:** Reckley, William <[William.Reckley@nrc.gov](mailto:William.Reckley@nrc.gov)>  
**Subject:** [External\_Sender] Is there a good time to call you today?

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