

University of Illinois  
at Urbana-Champaign

Department of  
Nuclear Engineering  
214 Nuclear Engineering  
Laboratory  
103 South Goodwin Avenue  
Urbana, IL 61801-2984

College of Engineering

217 333-2295  
217 333-2906 fax

December 1, 1992  
Docket No. 50-151

Mr. Alexander Adams, Jr.  
U.S. Nuclear Regulatory Commission  
PDNP  
ATTN: Document Control  
M.S. 11-B-20  
Washington, DC 20555

Dear Sir,

The following information is an update of the software status for use at the University of Illinois upon installation of the GA digital control console:

1. University of Illinois Specific I&C System Software - Modifications

General Atomics has provided to the University of Illinois both proprietary and non-proprietary versions of this document. Also included is an affidavit from General Atomics concerning 10 CFR 2.790 protection over proprietary information. It is requested that the GA proprietary information be afforded the requisite protection of 10 CFR 2.790 for the following reason:

The information contained in "University of Illinois Specific I&C System Software - Modifications" was developed at private expense for commercial purposes and is of a type customarily held in confidence by an owner. The rational basis, therefore, lies in its commercial utility and the competitive advantage it affords the owner.

Thank you for your time and consideration.

Respectfully,



Richard L. Holm  
Reactor Supervisor

Enc.

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PDR ADOCK 05000151  
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Change: NEC PDR  
NSIC

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AD201



TRIGA Group  
Telex: 695065 GENATOM SDG  
FAX: (619) 455-4169

November 25, 1992

Mr. Richard Holm  
Supervisor, Nuclear Reactor Laboratory  
University of Illinois  
Urbana, Illinois 61801

Dear Rich:

In response to your earlier request, we have prepared an update on the software status for the use of the University of Illinois in responding to any further specific request by the U.S. Nuclear Regulatory Commission (NRC) on this subject.

This software status lists all changes made to GA's software after our previous status report of October 8, 1992. The software updates listed below were made specifically for the University of Illinois I&C system. With the exception of one product improvement and one display modification, these changes were made to accommodate the operation of the fast transient rod.

GA continues to consider this information as proprietary information, and requests that it be afforded the requisite protection by the NRC as provided under 10 CFR 2.790.

An affidavit supporting this request is enclosed as required by 10 CFR 2.790(b)(1). In providing the attached document to the NRC, please include this affidavit along with an application by the University to the NRC which includes the reasons listed above in this letter, as required by 10 CFR 2.790(b)(1)(ii). Further, in responding to the NRC, you must provide both a proprietary and a non-proprietary version of the information. The non-proprietary version has the proprietary information blacked out and will eventually find its way into the public document room.

If you have any questions regarding this matter or require any additional information, please contact me at (619) 455-3593.


Very truly yours,

W.K. Hyde  
Manager, I&C Systems  
TRIGA Group


STATE OF ILLINOIS

COUNTY OF CHAMPAIGN

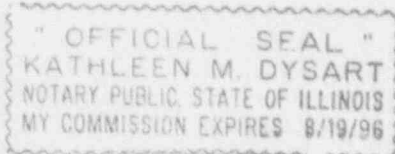
Richard L. Holm, being first duly sworn on oath, deposes and says that he has affixed his signature to the letter above in his official capacity as Reactor Supervisor, University of Illinois Nuclear Reactor Laboratory; that in accordance with the provisions of Part 50, Chapter 1, Title 10 of the Code of Federal Regulations, he is attaching this affidavit; that the facts set forth in the within letter are true to his best information and belief.

  
Richard L. Holm  
Reactor Supervisor

Subscribed and sworn to before me, a Notary Public, in and for the County of Champaign, State of Illinois, this 1st day of December, A.D., 1992.

  
Notary Public of Illinois

8-19-96  
My Commission Expires



**AFFIDAVIT**

The undersigned, Manager - I&C Systems of General Atomics' ("GA") TRIGA® Group, avers that he has read the accompanying and attached letter from W.K. Hyde to Richard Holm which forms the basis for a GA requested application by the University of Illinois for withholding specific documents from public disclosure, as well as having reviewed the content of the two documents. The specific GA document to be withheld is:


University of Illinois Specific I&C System Software - Modifications

The information contained in the said document has been held in confidence by GA. It is made available only to those who must know it in order to evaluate the safety characteristics of the system. It is made available to the University of Illinois upon the NRC's explicit request and is so provided in confidence.

The information contained in "University of Illinois Specific I&C System software Modifications" was developed at private expense for commercial purposes and is of a type customarily held in confidence by an owner. The rational basis, therefore, lies in its commercial utility and the competitive advantage it affords the owner.

Accordingly, GA directs the University of Illinois to ask the NRC to handle such information in confidence. It is not available from public sources, and its disclosure by the NRC would cause substantial harm to GA's competitive position in a wholesale market valued at approximately \$1 million per year. GA has expended approximately \$1,100,000 of private funds in developing the systems which incorporate the trade secrets described in this document, so the value ratio between that development cost and indicated market is substantial. Others presently engaged in the same or similar business appear not to have developed the same information.

Date: November 25, 1992

  
William K. Hyde

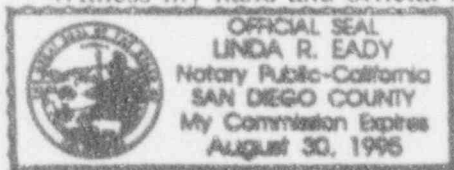
STATE OF CALIFORNIA )

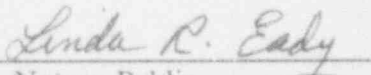
) ss.

COUNTY OF SAN DIEGO )

On this, the 25th day of November, 1992, before me, Linda R. Eady, the undersigned Notary Public, personally appeared William K. Hyde, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal.



  
Notary Public



[REDACTED]

## UNIVERSITY OF ILLINOIS SPECIFIC I&C SYSTEM SOFTWARE MODIFICATIONS

1. Requirement: Provide a [REDACTED] display on the high resolution color graphics monitor.

Reason: The University of Illinois has specified that the status of the [REDACTED] be displayed on the main color graphics monitor.

Solution: The [REDACTED] was modified to display the [REDACTED] in place of [REDACTED] on the color graphics animator display if the configuration is defined as ILL.

Safety: This change was reviewed for safety and performance implications. It was determined that this change was not safety related [REDACTED]

2. Requirement: Provide a relay contact for an external facility function when all scrams are cleared and control rod magnet power is available.

Reason: Illuminate a facility "Reactor On" annunciator.

Solution: The software was modified [REDACTED]

Safety: This change was reviewed for safety and performance implications. It was determined that this change was not safety related. [REDACTED]

3. Requirement: Delete the [REDACTED] from the [REDACTED]

[REDACTED]

[REDACTED]

Reason: Illinois does not use the [REDACTED]  
[REDACTED] are used only for safety  
related functions.

Solution: [REDACTED]

Safety: This change was reviewed for safety and performance  
implications. It was determined that this change was not  
safety related. [REDACTED]

4. Requirement: Provide for the display of the [REDACTED]

Reason: Illinois has two transient rods, the Adjustable transient rod  
and the Fast Transient Rod. [REDACTED]

Solution: [REDACTED]  
[REDACTED]  
[REDACTED]

Illinois has only two shim rods.

Safety: This change was reviewed for safety and performance  
implications. It was determined that this change was not  
safety related. [REDACTED]

5. Requirement: Allow the Regulating rod position to be controlled by  
[REDACTED]

Reason: The generic rod control design provides for only [REDACTED]  
[REDACTED] The Illinois design requires  
that the Regulating rod position be controlled [REDACTED]  
[REDACTED]

Solution: On 10/12/92 the [REDACTED] was modified  
to provide [REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

Safety: This change was reviewed for safety and performance implications. It was determined that this change was not safety related. [REDACTED]

6. Requirement: Allow selection [REDACTED] both to be used in [REDACTED]

Reason: The generic [REDACTED] allows for only [REDACTED]  
The Illinois reactor uses [REDACTED]  
operations, any combination of these [REDACTED]

Solution: On 10/12/92 [REDACTED] was modified to allow the [REDACTED]  
select switches and [REDACTED]  
[REDACTED] When the [REDACTED]  
[REDACTED] is selected, the operator [REDACTED]  
enter the [REDACTED] to be used for that  
particular [REDACTED]

Safety: This change was reviewed for safety and performance implications. It was determined that this change was not safety related.

[REDACTED]

1. Requirement: Allow conditional selection of the [REDACTED]  
[REDACTED]

Reason: [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Solution: On 10/12/92 the [REDACTED]  
[REDACTED]

Safety: This change was reviewed for safety and performance implications. It was determined that this change was not safety related. [REDACTED]  
[REDACTED]  
[REDACTED]