

## OFFICE MEMORANDUM

TO : Lester M. Baggett, Group Leader, GMX-4  
Thru *GA* Carl Buckland, Leader, General Monitoring Section, H-1  
And : Dean D. Meyer, Group Leader, H-1

DATE: March 20, 1972

FROM : Robert Martin, General Monitoring Section, H-1

SUBJECT: GMX-4 PU CONFINEMENT SHOT ①

SYMBOL : H-1

*TR*  
*Bay E - 4 - Box 2.0*

A plutonium confinement shot using 212 grams of  $^{239}\text{Pu}$  and 3.3 lbs. of HE was fired on Wednesday, March 8, 1972, at the GMX-4 IJ firing point.

No alpha contamination was detected during the loading operation. After loading, the three-foot confinement vessel was pumped down and purged twice with nitrogen and let up to atmospheric pressure with methane.

After the shot was fired, the outside of the safety vessel was monitored using a portable alpha instrument and no alpha contamination was detected. The pressure in the confinement vessel was then bled off and during this time an air sample was drawn from the manifold through two HV-70 filter papers on the H-1 Gast sampling system. No alpha contamination was detected on the filter papers using a portable alpha instrument. The first filter paper read 3.0 counts/min or 9.0 dis/min and the second filter paper had no detectable alpha contamination per Edna Marx, H-1 Count Room, CMR Building. The confinement vessel was then pumped down and purged twice with outside air.

No alpha contamination was detected around the confinement vessel after the safety vessel door was opened, and no contamination was detected after the copper trumpet was cut and replaced.

A giraffe air sampler was sampling the breathing air during the pre-shot and post-shot activities and it read 2.55 dis/min-M<sup>3</sup> per Edna Marx.

*Robert Martin*  
Robert Martin

RM:ed

Xc: Dick Warnes, GMX-4  
Ellery Storm, H-1  
File thru C. Blackwell, H-1

Received by ER-RPF

JUL 14 1992

*YCG*



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(Side 1 of 2)

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DOCUMENT TO: Lester M. Baggett DOCUMENT DATE: 3-20-72  
ORIGINATOR NAME: Robert Martin ORGANIZATION: H-1  
SYMBOL: H-1 PAGE COUNT: 1  
SUBJECT/TITLE: Gmx-4 Pic Confinement Shot

**RECORD TYPE** (Circle relevant type for primary record; type of attachments should be selected on *Keywords List*):

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| Analytical Data         | FAX       | Map            | Plan                   | Study            |
| Chain-of-Custody        | Figers    | Memo           | Procedure              | Telephone Record |
| Computer Output         | Form      | Microform      | Purchase Request       | Transcription    |
| Contract                | Interview | Notebook       | Receipt Acknowledgment | Video            |
| Controlled Distribution | Letter    | Personal Notes | Report                 | Work Plan        |
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