

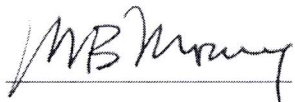
~~SECRET~~

Attachment 4

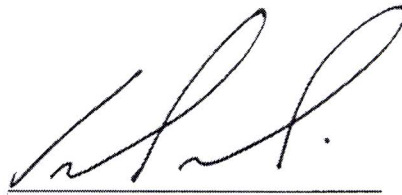
## DECLASSIFICATION DETERMINATION (U)

We have determined, pursuant to section 142c of the Atomic Energy Act of 1954, that the following information can be published without undue risk to the common defense and security of the United States, and can, therefore, be declassified and removed from the category of Formerly Restricted Data:

1. *The fact that the "Archie" radar used for the Mk II "Little Boy," "Fat Man", Mk III nuclear bomb, and Mk4 nuclear bomb, was the APS-13 "Tail Gun Charlie" radar in essentially unmodified form;*
2. *The design of the "Archie" radar;*
3. *External physical characteristics of the external Yagi-U do antennas used on nuclear weapons designed and constructed by the United States having such antennas (i.e., Mk II "Little Boy", "Fat Man," and Mk III nuclear bombs), including war reserve weapons, test devices, ballistic shapes, and mockups; and*
4. *The radio frequencies of the Mk II "Little Boy," "Fat Man," Mk III nuclear bomb, and Mk 4 nuclear bomb radars.*

 2/12/15  
date

Matthew Moury  
Associate Under Secretary  
Office of Environment, Health, Safety and  
Security

 11/4/14  
date

Vahid Majidi, Ph. D.  
Deputy Assistant Secretary of Defense  
(Nuclear Matters)

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1 <sup>st</sup> Review Date: <u>2/20/2015</u>	DETERMINATION (CIRCLE NUMBER(S))
Authority: <input checked="" type="checkbox"/> DC <input type="checkbox"/> DD	1. CLASSIFICATION RETAINED
Name: <u>Rich Lyons, Gen Engr</u>	2. CLASSIFICATION CHANGED TO:
2 <sup>nd</sup> Review Date: <u>2/20/2015</u>	3. CONTAINS NO DOE CLASSIFIED INFO
Authority: <u>DD</u>	4. COORDINATE WITH:
Name: <u>Johnnie Grant, Wpns Tm Ldr</u>	5. CLASSIFICATION CANCELED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

~~FORMERLY RESTRICTED DATA~~  
~~Unauthorized disclosure subject to~~  
~~Administrative and Criminal Sanctions.~~  
~~Handle as Restricted Data in Foreign~~  
~~Dissemination. Section 144.b, Atomic~~  
~~Energy Act of 1954.~~

~~Classified By: Glen D. Kres, Gen. Engr., AU-62~~

~~Derived From: TCC SA F-2, 7/12/2005-DOE/QC~~

~~SECRET~~