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 Mk4 nuclear bomb radars.

Matthew Moury  3/12/15  date
Associate Under Secretary
Office of Environment, Health, Safety and Security

Vahid Majidi, Ph. D.  11/4/14  date
Deputy Assistant Secretary of Defense
(Nuclear Matters)