

PROPOSED PROJECT NUMBER
PROJECT ORIGIN (SOURCE)

404172

Log 53-838

22.2

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FORMERLY RESTRICTED DATA
Unauthorized disclosure subject to
Administrative Penalties, Final Sections,
Handbook on Foreign Disinformation, Foreign
Dissemination Section 144.b., Atomic
Energy Act 1954.

PROJECT NUMBER: 7.5
PROJECT TITLE: Calibration Analysis of Deton
SPONSOR: Headquarters USAF ORGANIZATION:

PROJECT OFFICE:
Agency:
Address:

Phone:

OBJECTIVE:

To continue the accumulation of calibration data on the relations
between all products of nuclear reactions occurring in fission and thermal
nuclear explosions

BEST COPY AVAILABLE

STATUS:

Beginning with Operation SANDSTONE (Theft/steal), Headquarters USAF,
has provided for the security of all available information on the
actual relations between the

without any valuable information was then secured on the occasion of each
1.3. test. Without this information it would be difficult, if not impossible,
past experience

security, operations from the data have been noted even where the U.S. test
has consisted of exploding essentially a stock-pile weapon. These departures
are apparently the result of exploding the weapon under various conditions
such as high in the air, on the surface of the ground, or underground. It
is important to continue following these departures even where a specific
weapon under test does not depart essentially in design from a previously
tested weapon. The nature of the laboratory work involved and, to a large
extent, of the field work involved in collecting the samples is very similar

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 6/15/95	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: EAC/DA/ADD	1. CLASSIFICATION MAINTAINED
NAME: H. J. [unclear]	2. CLASSIFICATION CHANGED TO:
2ND REVIEW DATE:	3. CONTAINS INFO OF CLASSIFIED INFO
AUTHORITY: ADD	4. COORDINATE WITH:
NAME:	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY): DELETED VERSION ONLY

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~~SECURITY INFORMATION~~

~~SECRET~~

to that of the chemical group of the J-Division of the Los Alamos Scientific Laboratory, and extreme close-in sampling of the debris since the time of Operation RANGER (Restricted) has been a joint [redacted] undertaking as far as such samples are necessary for this program.

PROCEDURE:

Extreme close-in filter paper samples will be required on the occasion of Operation CASTLE and it is planned to meet this requirement by working agreement with J-Division of the Los Alamos Scientific Laboratory. Extreme close-in samples of the gaseous debris may be necessary, depending upon the precise nature of the weapon or gadget under test, and similar arrangements will be made with the J-Division of the Los Alamos Scientific Laboratory to incorporate either the present snap samplers or a modification thereof into the LASL requirements for extreme close-in flights. It is anticipated, however, that securing of extreme close-in gas samples will constitute a part of this program for planning, administrative, budget and analysis purposes. Close-in samples out to a distance of approximately 300 miles, both of the particulate debris collected on filter papers and the gaseous debris to be collected by currently existing

[redacted] flights. These aircraft will be presumably available as in the past by virtue of the requirements for weather surveys under another program. Long range samples as may be required will be collected in the course of the routine operations of the

In addition, a requirement exists for high-concentration fall-out samples, procedures for which will be worked out in cooperation with other programs if possible, or otherwise initiated

SUPPORT REQUIRED:

In addition to the normal items below required in support of activities within the Task Force area, a further requirement essential to this project is included as Item (f),.

- a. Personnel: Forward echelon - seven (7) officers, seven (7) airmen, four (4) civilians
- b. Instrumentation: None
- c. On-Site Construction required from AEC Contractors: 1200 sq. ft. of office and laboratory space at Kwajalein.
- d. Air and Rail Transportation: Transportation for 7 officers, 7 airmen, 4 civilians, and 5 tons of equipment for the east coast of the U.S. to Kwajalein.

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e. Funds:

	<u>R&D</u>	<u>Extra-Military</u>
Total Estimated Cost	\$100,000	0
Funds Available	0	0
Test Agency Funds Required	\$100,000	0

f. Other: To facilitate the collection of samples at long range, there is a requirement for measurements of the height and initial movement, after stabilization, of the tops of the radioactive clouds, the bases of the mushrooms, and of any other prominent features of the clouds, and for upper level wind observations taken in the Task Force area. These data are required in Washington as soon as possible after detonation. The details of this requirement will be worked out in coordination with the Task Force meteorological section.

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