

SCHWINGE UND STABILISATION

4.04.170

OPERATING GUIDE (CONTINUED)

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PRACTICAL HUMOR

SIMONSON
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SPOKANE RESIDENTIAL EXCAVATION LTD.

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Acoustic measurements of the airborne low-frequency sound from the atomic explosions of Operation CASTLE will be made at a variety of distances and azimuths from the detonation point. Data will be analyzed in order to obtain amplitude, duration, azimuth, horizontal phase velocity and frequency spectra of acoustic arrivals. Results will be used in the interpretation of seismic signals picked up from seismic sources during routine operation of the Atomic Energy Detection System seismic nets. Data are particularly important as a supplement to results expected from Operation IVY (Savannah).

Acoustic measurements during Operations CANNONBALL, BUSTER/JUSTICE (unclassified), and TITAN/JURT (unclassified) indicated the feasibility of acoustic long-range detection. Continued acoustic measurements during steady tests are required in order to determine the variations in signal characteristics as a function of season, location, and yield.

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Standby semi-permanent acoustic stations together with certain permanent stations will be operated especially for Operation CASTLE. These stations will be located at Gabra, N.H.; Phoenix, Arizona; Pt. Lewis, Washington; California-Arizona Desert; Washington, D.C.; and Nevada. No operations will cover the entire CASTLE test series.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW-DATE:	<u>6/15/95</u>
AUTHORITY:	DOE CLAD/CADD
NAME:	<u>K. Schmitt</u>
2ND REVIEW-DATE:	_____
AUTHORITY:	ADD
NAME:	_____
DETERMINATION (CIRCLE NUMBER(S))	
1. CLASSIFICATION RETAINED	
2. CLASSIFICATION CHANGED TO: _____	
3. CONTAINS NO DOE CLASSIFIED INFO	
4. COORDINATE WITH: _____	
5. CLASSIFICATION CANCELLED	
6. CLASSIFIED INFO BRACKETED	
7. OTHER (SPECIFY): <u>WITH DELETIONS</u>	

~~SECURITY INFORMATION~~

~~SECURITY INFORMATION~~

~~SECRET~~

~~SUPPORT REQUIREMENTS~~

No activity under this project is planned in the area defined as coming under the jurisdiction of the Task Force.

- a. Personnel: None
- b. Instrumentation: None
- c. On-Site Construction required from AEC Contractors: None
- d. Air and Rail Transportation: None
- e. Funds:

	<u>R&D</u>	<u>Extra-Military</u>
Total Estimated Cost	\$125,000	0
Funds Available	0	0
Test Agency Funds Required	\$125,000	0

~~SECURITY INFORMATION~~

~~SECRET~~