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**BUREAU OF SHIPS GROUP**

**TECHNICAL INSPECTION REPORT**

Classification (~~Cancelled~~) (Changed to **CONFIDENTIAL**)  
By Authority of Joint Chiefs of Staff (Action 15 Apr 49)  
By John R. Bagg, Capt Date 1 May 51

**OPERATION CROSSROADS,  
U.S.S. LCM 5,**

**TEST BAKER**

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ARMED FORCES  
SPECIAL WEAPONS PROJECT

(11) 1947,

(12) 18p.

**OPERATION CROSSROADS**

**DIRECTOR OF SHIP MATERIAL D C**

**JOINT TASK FORCE ONE**

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1 JAN 1965  
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BUREAU OF SHIPS GROUP  
TECHNICAL INSPECTION REPORT

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Classification (~~Cancelled~~) (Changed to \_\_\_\_\_)

By Authority of Joint Chiefs of Staff (Action 15 Apr 49)

By *Alan Rogers Capt* Date *1 May 51*

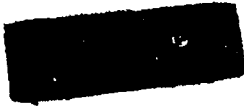
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*U.S. Govt. agencies there shall  
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APPROVED:

**CONFIDENTIAL** X. Forest,  
Captain, U.S.N.



USS LCM-5

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TECHNICAL INSPECTION REPORT

OVERALL SUMMARY

I. Target Condition After Test.

(a) Drafts after test, general areas of flooding, sources.

There was no flooding, hence no change in drafts or list. There was a slight amount of seepage through the shaft packing gland.

(b) Structural Damage.

None.

(c) Other damage.

None.

II. Forces evidenced and effects noted.

(a) Heat.

None.

(b) Fires and Explosions.

None.

(c) Shock.

None.

(d) Pressure.

None.

(e) Effects peculiar to the Atomic Bomb.

None.

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III. Effects of Damage.

(a) Effect on machinery, electrical, and ship control.

No effect.

(b) Effect on gunnery and fire control.

No effect.

(c) Effect on watertight integrity and stability.

None.

(d) Effect on personnel and habitability.

None.

(e) Effect on fighting efficiency.

None.

IV. General Summary of Observer's Impressions and Conclusions.

None.

V. Preliminary General or Specific Recommendations of Inspection Group.

None.

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TECHNICAL INSPECTION REPORT

SECTION I - HULL

GENERAL SUMMARY OF HULL DAMAGE

I. Target Condition After Test.

(a) Drafts after test, general areas of flooding, sources.

There was no flooding, hence no change in drafts or list. There was slight amount of seepage through the shaft packing gland.

(b) Structural damage.

None.

(c) Other damage.

Not observed.

II. Forces Evidenced and Effects Noted.

(a) Heat.

None.

(b) Fires and explosions.

None.

(c) Shock.

None.

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(d) Pressure.

None.

(e) Effects peculiar to the atom bomb.

None.

III. Results of Test on Target.

(a) Effect on machinery, electrical, and ship control.

Not observed.

(b) Effect on gunnery and fire control.

Not observed.

(c) Effect on watertight integrity and stability.

None.

(d) Effect on personnel and habitability.

None.

(e) Effect on fighting efficiency.

None.

IV. General Summary of Observers' Impressions and Conclusions.

None.

V. Preliminary Recommendations.

None.

VI. No loading was specified for this craft.

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## DETAILED DESCRIPTION OF HULL DAMAGE

### A. General Description of Hull Damage.

No damage. This craft was afloat about 200 yards off the beach for Test B. (Photo 1718-1, page 18)

### B. Superstructure.

No damage.

### C. Turrets, Guns and Directors.

Not applicable.

### D. Torpedo Mounts, Depth Charge Gear.

Not applicable.

### E. Weather Deck.

No damage.

### F. Exterior Hull.

No damage.

### G. Interior Compartments (Above w.l.).

No damage.

### H. Armor Decks and Miscellaneous Armor.

Not applicable.

### I. Interior Compartments (below w.l.).

No damage.

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- J. Underwater Hull.  
No damage.
- K. Tanks.  
No damage.
- L. Flooding.  
None.
- M. Ventilation.  
Not applicable.
- N. Ship Control.  
No damage.
- O. Fire Control.  
Not applicable.
- P. Ammunition Behavior.  
Not applicable.
- Q. Ammunition Handling.  
Not applicable.
- R. Strength.  
No damage.
- S. Miscellaneous.  
No comment.

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# TECHNICAL INSPECTION REPORT

## SECTION II - MACHINERY

### GENERAL SUMMARY OF MACHINERY DAMAGE

#### I. Target Condition After Test.

- (a) Drafts after test; list; general areas of flooding, sources.

The machinery space of this vessel was flooded with about 1 foot of water. Flooding appeared to be normal seepage through the shaft packing gland.

- (b) Structural damage.

None observed.

- (c) Other damage.

No direct damage caused by Test "B".

#### II. Forces Evidenced and Effects Noted.

- (a) Heat.

None.

- (b) Fires and explosions.

None.

- (c) Shock.

None.

- (d) Pressure.

None.

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(e) Effects peculiar to the Atom Bomb.

None.

III. Effects of Damage.

(a) Effect on machinery and ship control.

There was no apparent damage.

(b) Effect on gunnery and fire control.

No comment.

(c) Effect on water-tight integrity and stability.

No comment.

(d) Effect on personnel and habitability.

None.

(e) Total effect on fighting efficiency.

None.

IV. General Summary of Observers' Impressions and Conclusions.

None.

V. Preliminary Recommendations.

None.

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## DETAILED DESCRIPTION OF MACHINERY DAMAGE

### A. General Description of Machinery Damage.

#### (a) Overall condition.

Test "B" had no effect on the machinery of this vessel, however flooding probably rendered the main engines inoperable. This flooding is not the effect of the test, but because of the fact the crew was not aboard to control it.

#### (b) Areas of major damage.

There are no areas of major damage as a direct result of Test "B".

#### (c) Primary cause of damage.

Not applicable.

#### (d) Effect of test on overall operation of machinery plant.

Test "B" had no effect on the operation of the machinery plant.

### B. Boilers.

Not applicalbe.

### C. Blowers.

Not applicable.

### D. Fuel Oil Equipment.

Not applicable.

### E. Boiler Feedwater Equipment.

Not applicable.

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F. Main Engines.

The main engines suffered no damage from Test "B", however flooding probably rendered them inoperable.

G. Reduction Gears.

The reduction gears are an intergal part of the main engines.

H. Shafting and Bearings.

No apparent damage as far as can be determined by visual inspection.

I. Lubrication System.

This is an intergal part of the main engine.

J. Condensers and Air Ejectors.

Not applicable.

K. Pumps.

The bilge pump appears to be in operable condition.

L. Auxiliary Generators.

Not applicable.

M. Propellers.

Apparently undamaged.

N. Distilling Plant.

Not applicable.

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**O. Refrigerating Plant.**

Not applicable.

**P. Winches, Windlasses and Capstans.**

The bow winch appears to be undamaged.

**Q. Steering Engine.**

The steering controls are apparently undamaged.

**R. Elevators, etc.**

Not applicable.

**S. Ventilation.**

Not applicable.

**T. Air Compressors.**

Not applicable.

**U. Diesels (Generators and Boats).**

Not applicable.

**V. Piping.**

No damage was sustained by any piping.

**W. Miscellaneous.**

Not applicable.

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**U. S. S. LCM-5**

**TECHNICAL INSPECTION REPORT**

**SECTION III - ELECTRICAL**

**GENERAL SUMMARY OF ELECTRICAL DAMAGE**

**I. Target Condition After Test.**

- (a) Drafts after test; list; general areas of flooding, sources.

Not observed.

- (b) Structural damage.

Not observed.

- (c) Other damage.

No damage from the underwater blast.

**II. Forces Evident and Effects Noted.**

- (a) Heat.

No evidence of heat.

- (b) Fires and explosions.

No fires or explosions.

- (c) Shock.

No evidence of shock damage to electrical equipment.

- (d) Pressure.

No evidence of pressure damage to electrical equipment.

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- (e) Any effects apparently peculiar to the Atom Bomb.

No effects peculiar to the Atom Bomb were noted.

### III. Effects of Damage.

- (a) Effect on electrical equipment and ship control.

No effect.

- (b) Effect on gunnery and fire control.

No effect.

- (c) Effect on water-tight integrity and stability.

No effect.

- (d) Effect on personnel and habitability.

No effect.

- (e) Effect on fighting efficiency of the vessel.

No effect.

### IV. General Summary of Observer's Impressions and Conclusions.

The beached craft suffered no electrical damage from the underwater blast.

### V. Any Preliminary General or Specific Recommendations of the Inspecting Group.

No recommendations.

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**DETAILED DESCRIPTION OF ELECTRICAL DAMAGE**

**NOTE:** The only item discussed below are those where damage occurred. All items omitted either received no damage or are not applicable.

**There was no damage.**

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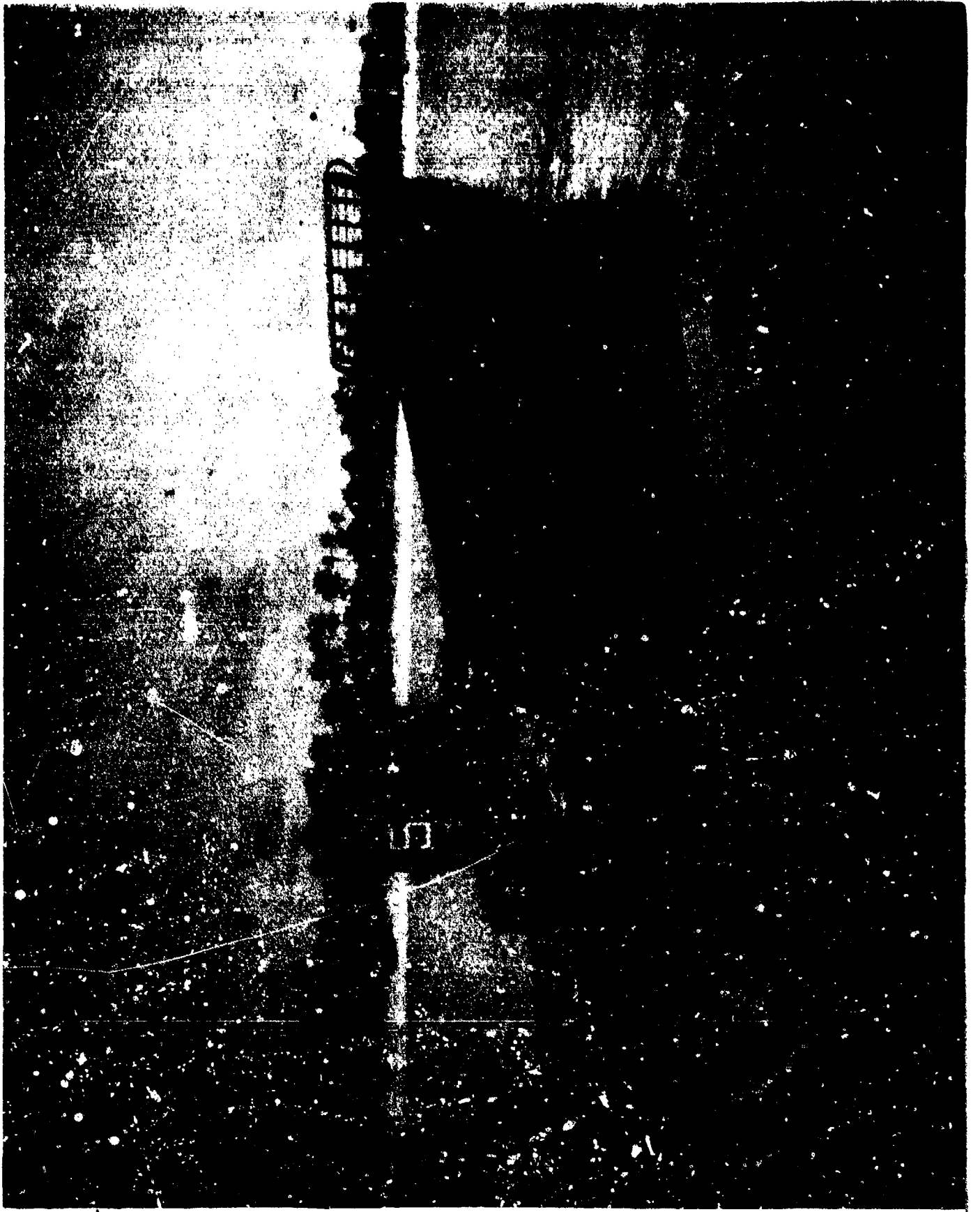
**SECTION IV**

**PHOTOGRAPHS**

**TEST BAKER**

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**USS LCM-5**



AB-CR-60-1718-1. View from off port quarter after Test B.

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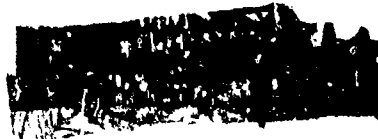
Classification (~~Canceled~~) (Changed to

By Authority of Joint Chiefs of Staff (Action 15 Apr 49)

By John Dege (Capt) Date 1 May 51

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Defense Special Weapons Agency  
6801 Telegraph Road  
Alexandria, Virginia 22310-3398

TRC

18 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER  
ATTENTION: OMI/Mr. William Bush (Security)

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency has declassified the following reports:

✓✓AD-366588	X	✓	XRD-203-Section 12
AD-366589	✓	✓	XRD-200-Section 9
AD-366590	✓	✓	XRD-204-Section 13
AD-366591	✓	✓	XRD-183
✓✓AD-366586	X	✓	XRD-201-Section 10
✓AD-367487	X	✓	XRD-131-Volume 2
✓✓AD-367516	✓	✓	XRD-143
✓✓AD-367493	X	✓	XRD-142
AD-801410	✓	✓	XRD-138
AD-376831	✓	✓	XRD-83
AD-366759	✓	✓	XRD-80
✓✓AD-376830	X	✓	XRD-79
✓✓AD-376828	X	✓	XRD-76
✓✓AD-367464	X	✓	XRD-106
AD-801404	✓	✓	XRD-105-Volume 1
✓✓AD-367459	X	✓	XRD-100

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18 April 1997

Subject: Declassification of Reports

✓✓ AD-367517 ✕	XRD-141 ✓
AD-366762 ✓	XRD-84 ✓
AD-366760 ✓	XRD-81 ✓
AD-366761 ✓	XRD-82 ✓
AD-367501 ✓	XRD-158-Volume 1 ✓
AD-367507L ✓	XRD-152-Volume 4 ✓
✓✓ AD-367495 ✕	XRD-184 ✓
✓✓ AD-367485 ✕	XRD-129 ✓
✓✓ AD-367484 ✕	XRD-128 ✓
✓ AD-367483 ✕	XRD-127 ✓
✓ AD-367482 ✕	XRD-126 ✓
AD-367488 ✓	XRD-132
✓ AD-367480 ✕	XRD-124 ✓
AD-801409L ✓	XRD-135 ✓
✓ AD-367490 ✕	XRD-136 ✓
✓ AD-367492 ✕	XRD-137 ✓
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AD-367515 ✓	XRD-144 ✓
AD-367514 ✓	XRD-145 ✓
✓ AD-367468 ✕	XRD-110-Volume 2 ✓
AD-367513 ✓	XRD-146 ✓
✓ AD-367497 ✕	XRD-162 ✓

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18 April 1997

Subject: Declassification of Reports

AD-801406L ✓ XRD-114✓

In addition, all of the cited reports are now **approved for public release; distribution statement "A" now applies.**

*Arduith Jarrett*  
ARDITH JARRETT  
Chief, Technical Resource Center