

# New Clean Atomic Basts May Dig 2nd Panama Canal

**By RALPH DIGHTON**  
LAWRENCE, Calif. (AP)—Scientists are perfecting a new and improved way of producing nuclear blasts that may have a profound effect on both military and peaceful uses of the atom.

This is the primary reason no other country has written for Project Plowshare—a giant scale, earth-moving scheme illustrated in a report released by the 1963 nuclear test treaty. Instead, the Atomic Energy Commission has extended its study of the problems of digging a second Panama Canal—a project once considered impossible because of the hazards of radioactive fallout.

Although AEC officials are not discussing military applications, it is obvious that development of low-radioactive weapons would have vital significance in a war-time: Key enemy installations could be destroyed by atomic blasts with less fear of being wiped out themselves by a changing wind direction.

**RADIATION**  
Dr. Gerald Johnson, associate director of the University of California's Lawrence radiation laboratory, which runs Project Plowshare for the AEC, said the "clean" technique is a result of information learned in recent underground tests of military operations in Nevada and Idaho. He said that a 1962 Plowshare blast that opened a crater three blocks wide and a block deep.

Although a 100-kiloton hydrogen bomb is equal to 100 tons of TNT was set off in that test,

which would accomplish Plowshare objectives without contaminating the atmosphere.

**DEVICES IMPROVED**  
Although there have been no developments in the first two areas, improvement of test devices is definitely under way and, judging from the optimism here, with measurable success. John Kelly, director of the AEC's division of peaceful nuclear explosives, says:

"I am very optimistic that we will be able to do some cratering tests under the treaty."

In the meantime, Johnson said, serious study is being made of projects which clearly can be carried out under the treaty with deep underground, fully contained explosions.

Among them:

1. Continued improvement of devices for blasting out canals and harbors.
2. Using the extreme heat of nuclear detonations to extract oil from tar sands and shale.
3. Stimulating the flow of natural gas by breaking up underground pockets.
4. Creating vast caverns into which the sewage and rubbish of large cities could be dumped.
5. Purely scientific experiments to determine the effects of heat, pressure and radiation on various materials.

The new technique, Johnson said, shows promise of being even cleaner.

"We had just completed a two-year study of the feasibility of a canal across the desert which showed we could cut a new canal for less than the cost of widening the old one—and still keep radioactivity within reasonable safe limits," he said.

"Now, on the basis of our new experience, we are revising the present design and I think we will come up with an even better safety factor."

The project was with one of the most promising yet unproven cratering projects developed by Plowshare for atomic energy.

**SCHEDULE SET BACK**  
Early in 1963, the AEC said perfection of excavation technology-

### CKCW-TV

- 1.30 p.m.—Musical
- 2.00 p.m.—Passover
- 2.30 p.m.—Saver Hill
- 3.00 p.m.—Like Thirty
- 3.30 p.m.—Friendly Giant
- 4.00 p.m.—Coco Kid
- 4.30 p.m.—Homesay
- 5.00 p.m.—Razze Dazze
- 5.30 p.m.—Woody Woodcock
- 6.00 p.m.—Mrs. Business
- 6.15 p.m.—Live Longe
- 7.15 p.m.—Cinema 137
- 8.00 p.m.—Double Life
- 9.00 p.m.—Ferry Mason
- 10.30 p.m.—Herald... Han
- 11.30 p.m.—Strangers For A Day
- 12.00 p.m.—CKCW-TV News
- 12.15 p.m.—Local TV
- 12.14 a.m.—Sign Off

### CKCW-TV

- 1.00 p.m.—Weekend Payroll
- 2.30 p.m.—All Home With
- 3.00 p.m.—Like Thirty
- 3.30 p.m.—The Friendly Giant
- 4.00 p.m.—Coco Kid
- 4.30 p.m.—Woody Woodcock
- 5.00 p.m.—Mrs. Business
- 5.15 p.m.—Live Longe
- 6.00 p.m.—Super Club
- 6.35 p.m.—Saver Hill
- 7.00 p.m.—Phil Silvers Show
- 8.30 p.m.—How Gun Will Travel
- 9.00 p.m.—Herald... Han
- 10.30 p.m.—Ferry Mason
- 11.30 p.m.—Strangers For A Day
- 12.00 p.m.—CKCW-TV News
- 12.15 p.m.—Local TV
- 12.25 a.m.—Sign Off

### CKCW-RADIO

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- 4.30—News and Weather
- 6.35—Country—Western Roundup
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- 9.10—Preview Commercial
- 9.15—News and Weather
- 9.27—Marine Musical Charades
- 10.20—Perfection Vocalist
- 10.25—News and Weather
- 10.30—Get Rich With Rich Little
- 10.35—News and Music
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- 12.55—Town and Country Time
- 1.00—News and Weather
- 1.05—Town and Country Time
- 1.10—News and Weather
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