

Huge Gas Cloud Will Test Future Use Of Radar, TV

By RENNIE TAYLOR
PALO ALTO, Calif. — Military and civilian scientists disclosed Thursday they will produce a big gas cloud in the atmosphere 70 miles above Alamogordo, N.

M., in an effort to create an artificial ceiling for long distance radar and TV transmission.

The operation is almost certain to yield results of military value and may become the breakthrough for a revolution in civilian long distance radar and TV communication.

The gas, to be carried in an Aerobee H rocket, is intended to electrify a mass of air, and this charged mass in turn will bounce the very short radio waves back to earth instead of letting them go on into outer space.

The project, to be known as "Operation Smoke Puff," will be undertaken some time in July. It will be a joint effort of the Air Force Cambridge Research Cen-

ter, the Radio Amateurs of the Southwestern United States and the Radio Propagation Laboratory of Stanford University.

Some of the procedures will resemble the firing of an atomic bomb. Radio amateurs, standing by within a 700 mile radius of Alamogordo, will hear the count-down in their earphones. After the rocket has soared aloft and spewed its

load of gas into the air, the radio forces will start sending short wave messages to each other, expecting to bounce their transmitted signals off the cloud.

Stanford equipment in charge of Prof. O. G. Villard, electronics engineer and expert meteor tracker will plot the course of the cloud and the results of the radio transmission effort.



MAKE YOU FEEL ITCHY?—Nine-year-old Barbara Patch is struck a little wide-eyed as she views this model of an Indian Rat Flea (only magnified 160 times) at the Academy of Sciences in San Francisco's Golden Gate Park. Barbara's first thought was to flee!

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Reconsidering Of Hells Canyon Decision Sought

LEWISTON, Idaho — Members of the Idaho-Oregon-Washington Hells Canyon Assn. believe there is still "a fighting chance" for construction of a federal high dam in the Hells Canyon stretch of the Snake River.

President Lynn Tuttle of Clarkston, Wash., told the association at its meeting here Saturday there is still a chance the high dam will be approved despite recent setbacks in Congress and the courts.

The association voted to press for the high federal dam "until all possible hope of its being erected is lost."

Regardless of the outcome of the Hells Canyon fight, Tuttle said, the association will continue to press for comprehensive development of the Columbia River

basin through construction of other multi-purpose dams.

Tuttle indicated the group will support erection of a dam at the Nez Perce site below the confluence of the Salmon and Snake rivers.

Joan Baker, Portland, secretary of the National Hells Canyon Assn., said that group plans to ask the U.S. Supreme Court to reconsider its Hells Canyon action early this month. The court refused to review a lower court's

STATEHOOD APPROVED
SALEM, — A memorial to Congress urging immediate statehood for Alaska and Hawaii was recommended for approval Monday by the House State and Federal Affairs Committee. It was approved by the Senate last week.

decision upholding the Federal Power Commission's award of three low dam sites in the Hells Canyon area to Idaho Power Co.

INSTALLED AS WARDEN
Richard L. Mayer, grandson of Roy E. Burhart, 284 NE West Ave., was recently installed as warden at Phi Mu Alpha, men's music honorary at the University of Oregon. Mayer is a sophomore majoring in music at the university.

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9th Week	.50	35th Week	1.25
10th Week	.55	36th Week	1.15
11th Week	.60	37th Week	1.05
12th Week	.65	38th Week	1.00
13th Week	.70	39th Week	.95
14th Week	.75	40th Week	.85
15th Week	.80	41st Week	.75
16th Week	.90	42nd Week	.65
17th Week	1.00	43rd Week	.60
18th Week	1.05	44th Week	.50
19th Week	1.15	45th Week	.45
20th Week	1.25	46th Week	.40
21st Week	1.35	47th Week	.35
22nd Week	1.45	48th Week	.30
23rd Week	1.55	49th Week	.25
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