XVIII-12-28

U. S. ARMY CORPS OF ENGINEERS
BALLISTIC MISSILE CONSTRUCTION OFFICE
LOS ANGELES, CALIFORNIA

CEBMCO

HISTORICAL SUMMARY REPORT

0F

MAJOR ICBM CONSTRUCTION

NEWSPAPER DOCUMENTATION





ATLAS "F"

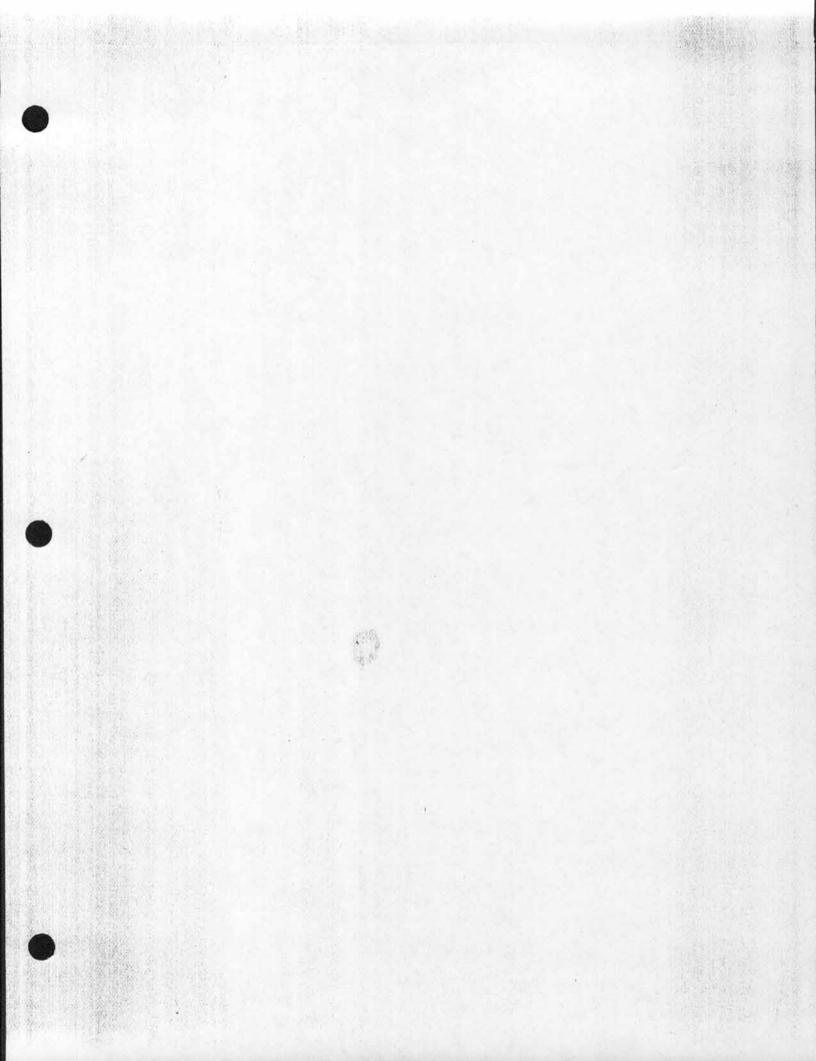


LINCOLN SQUADRON

I SPAPER DOCUMENTATION

OF

ATLAS P PROCEAM



Missile Bases 'Most Urgent of Jobs'

Sites Are Viewed by Itschner

By Bess Jenkins

Value from a war this is the most argent of jobs for

No. 14 Sec. this job of building think is the es for the! Air Freezy has the same or gency has walterne work "

These two comments -- in one, two tempo - came from the Army Corps of Engineers' chief, the 3-star Gen-eral F. C. Itschner of Washington, D. C. as he took rapid strides toward an awaiting Army heliconter.

It and another identically large chopper took the l'entagon-based Leneral and his party of about a dozen general of mers and assistants to 3 of Lincoln area's 12 Atlamissile fauncher sites.

The group, representing the Army and the Air Force identified with the construction or the nation's missile bases, ar rived in Lincoln from the east and west coasts Thursday night.

The visit was described as a routine one of regularly scheduled inspections what Gen. Itschner is mak; ii ; where his Engineers are constructing the missile bases.

Gen Itschner, in the Army Corps since 1924, symbol, the ground, izes the trend of the job of the Engineers down through the years.

He said

"My first job in the Corps was to help build the Alaskan roads back in 1924. There have been many of those. many dams since. But this is the most urgent of all."



GENERAL IS BRIEFED-A glass-paned ermitted this photograph of the brie of given by Col. Harry Woodbury ing). Omaha District Army Engi-10 Lt. Gen. E. C. Itschner (pencil in No. 1 man in the Army Engineers Change and other top brass in the Air Force and amy, here Friday to tour some of the l media area missile launcher sites. Maj.

York, known as Site 7 to Wilbur and Cortland sites. of tion.

These will form the con- pervision will begin. crete-lined silos or under-

presently division engineer of the Missouri River Division, Omaha District Army Engineers, will go to Washington, D.C., next month for his new assignment as deputy Chief of Engineers. Col. Verson Hastings, (hand to his face), is in charge of the Offutt missile system and has been assigned the same duty for the Lincoln project by the Air Force Ballistic Missile Division.

Vorb Wilbur and Cortland Work on the all-concrete In the party with York, Wilbur and Cortland Work on the all-concrete in the party with Gen. were the 3 sites seen by Gen. launch control center (con-Itschner were Maj. Gen. lischner and his group, both necting to the missile siles) A. M. Minton, director of from the helicopter and from which will be 45 (cet under civil engineering for the Air from the helicopter and from which will be 45 (cet under civil engineering for the Air from the helicopter and from which will be 45 (cet under civil engineering for the Air from the helicopter and from which will be 45 (cet under civil engineering for the Air from the helicopter and from which will be 45 (cet under civil engineering for the Air from the helicopter and from which will be 45 (cet under civil engineering for the Air from the helicopter and the helicopter a ground is under way at the Force in Washington, D.C.

4. all are in various stages the electronic or "black box" Los Angeles. the 175-foot mining opera- equipment under Air Force equipment under Air Force The group left Lincoln Air Ballistic Missile Division su- Force Base soon after noon

work is on time at this date. terpart

and Brig. Gen. Alvin C. Wel-Western Contracting Corp., Completion of the 12-site ling, who is the commanding who have the Army Engi- system by the Army Engi- general for the Army Engineers' building contract: Wil. neers is scheduled for July, neers' newly set to Ballistic bur. Site 6, and Cortland. Site 1961. At that time the job of Missile construction office in

Friday for Salina Ken Mason Travis, project man, where they were to inspect ground nests for the actual ager for Western Contracting another Atlas underground missiles. Corp., has said the overall missile system, began 45 days schedule for the Atlas system | earlier than the Lincoln coun-

Construction Vil. Ciartily Falls Few Duals Released

Cost Approximately 925 Million; 755 Persons to Mandle New Unit

An in recontinental ballistic missile base will be located between Lincoln and Omaha, it has been learned.

Announcement of construction of a base in the Offutt Air Force illese area" was made by the Air Force in Washington.
Officials of the Strategic Air Command of Offutt Base

near One and they could not reveal the exact location of the base.

A reliable course reported, however, that the installation will be "more or less between the 2 cities" of Lincoln and Omaha.

Cost was elimated at \$25; million.

It was under food that the site would core from 850 to 1,030 acres.

The Offset a base will include only one issile launching site, it is base annual to be divided an included an incl

Maj. Gen. W. Kelley, director of the gislative liaison of the Force, announced the tent is sile to Nebraska Sen. Roman ska.

The letter's the base will have about 7 personnel assigned to its a cration.

Construction the base will begin in the summer or early fall of year, Gen. Kelley so

No estimate that for completion of the feet was given in the firm the grant ment.

that consider od, however, that consider would proceed rupidly a completion expected of 1 of 10 months

ofter its sort.

Constructor lil be under the super the of the Arry Engineers with each ical design under the recent from a lingle weed to be amounted to the construction of the construc

Official to add to discuss, the technolic lign of the base or the took of no size to be based to be.

h was any meet and the C. or reres Atlas L. or Co the Ci. or I Lincoln Journal 18 April 1958

An Atlas missile on Canaveral launching pad.

At as Missiles to Soar From SE Nebraska Base

as Intercontinental Ballistic Missiles will be laune ad from the proposed southeast Nebraska missile

CMAHA DISTRICT

LINCOLN JOURNAL, LINCOLN, NEB 30 May 1958

is site, which will be announced in the near future, will | bably be the old Mead ordnance plant near Wahoo, info: ed sources say.

1) other sites, also within a 25-mile radius of Offutt . B. Omaha, are also possible.

Office will be the control and supply point for the mis-sile bases, which are expected to have 750 men stationed

Cut of the project has been estimated at \$25 to 25 milli ...

CMAHA DISTRICT

OMAHA HORLD HERALD, OMAHA, WEBRASKA 7 August 1958

'A.F. to Seek ICBM Sites'

Senator Chave: Aim of Lincoln Survey

By Darwin C (50n Works-Hersh) Washing In Proceedings of the Lincoln of Face of the Lincoln of the

He told The World Hand the Air Force is "many terested" in finding and the Atlas, the Titan and mare missiles.

The Atlas and Tital are tercontinental ballist in siles and the Bomarc is an eterceptor missile.

'For Some Time'
Senator Chavez, charm
of the Defense subcommitte
of the Senate Appropriate
Committee, said the
Force 'for some time to
been surveying sites fall
Atlas and Titan, prince the Mississippi
Bomarc sites are not to be a sid, but around the periods
of the United States.

The Air Force alread ha announced the selectic of four ICBM bases, including one near Offutt Air I ree Base at Omaha. All are vest of the Mississippi.

The Air Force said Monday that new surveys would not lead to the immediate section of sites.

Scnator Chavez said the Air Force will survey about 15 additional areas, including Lincoln, in which ICBM bases may be located.

He cautioned, however, that just because an area is surveyed, "it doesn't necessarily mean a site will be selected there."

Altitude One Factor

Senator Chavez said the missile bases generally are of two types—"hard configuration" and "soft configuration." The "hard" type are those in which missiles are fired from under ground. The "soft" varieties are fired from above ground.

He said altitude is one factor considered in the selection of a site, since altitude increases the missile's range.

Senator Chavez said he did not know whether the Atias or Titan would be the missiles used at new ICBM bases. The Titan has not yet reached the test-firing stage.

OMAHA DISTRICT

THE LINCOLN STAR, LINCOLN. NEERASKA
5 February 1959

IL BLUFFS NONPAREIL, COUNCIL BLUFFS, IOWA 4 February 1959

Gensider Lincoln is Missile Dasa Sive

WASHINGTON A-The Lincoln.
Neb., area is being considered for an Atlas. Titan or Minuteman missile base.

Res. Phil Weaver (R-Neb) said Mad. Gen. Jacob Smart, vice chief of stat. felt him the Air Force is enoughing its incilities and prepring for the advent of the Min-

Small action that the Air Form a control of the horse to gather in a cities on work sile selections may be acted to a later of

And Force Byes I as For ICC Vi

Reports Survey

The Air Force is a latter to Rep. Phil Weiver in West-ington has confirmed that the Lincoln Air Force Base is one of the possible sites being a preveyed for Intercontinuously Ballistics Missiles.

The letter to Werver need that the Air Force vis copinding its facilities for a Vilas and Titan ICBM preparing for the addition will be harmed Man not sile visited.

Chalce of locavers, a kebraske 1st District representative was informal, while board on such for its a coorbite relationships to a di areas, proximity a saint for Force installation, and actors involving and a struction, and locat.

Air Force hearmarters are currently conducting surveys near a number of air bases to "assimilate information on which sound site selections may be made at a layer date."

"By proceeding in this manner, we shall be able to use the most efficient and economical locations or this costly facility."

Weaver said his office is vomaining in close contact with the Air Force concerning atture developments.

OMAHA DISTRICT WYOMING STATE TRIBUNE, CHEYENNE, WYO. 10 Harch 1959

WASHINGTON (UET) - The Mir Force has disclosed that its seventh interconfinence! ball to missile ICBM base will be ic. 4 at Lincoln Air Perce D. co. 1 b. The service issued a same of late Monday after it care, and

that congressmen afrecer and been notified that Lincoln had been selected.

It said the Lincoln base was cluded in the Air Perce cours tion program now pending in the gress for the fiscal year star next July 1. The service refe to say whether Lincoln well have Atlas or Titan ICBM's.

The Air Force disclesed pr ously that Atlas missiles will based at Vandenberg AFB. Call. Cheyenne, Wyo., in the Om Neb., area, and in the Spoke Wash., area, Titans will be bar in the Denver area.

IOBM Date To De Located At Lincoln

WASHINGTON (UPD-The Air Force has flaclosed that its seventh intercontinental ballingie missile (ICBM) base will be .o. cated at Lincoln Air Force Base.

The service issued to platement late Monday after . leveloped that congressmen all may had been notified that Lincoln had been selected.

It said the Lincoln the was included in the Air Force construction program new pending in Congre a for the liseal year starting next day 1. The service refused to sa, whether Lincoln would have this of Tital ICBM's.

An ICE., obie, not countil 2 nuclear war, cads and the price of land, costs approximately 290 m. lion dollars.

Question Is Water

The Air Force displaced previously that Atlas mis its will he based at Vandenne. AFE. Calif., Cheyenne, Wyo., in the Omaha, Neb., area, and it the Spokane. Wash., area. Thens will be based in the Denver : a.

Forbes AFB, Topcka, L. . . also has been selected as an ICBM site but the missile it will fire ange and lighter-weigh

(R-Nob) said he thought as ap-cessfully tested twice, propriation for the ICBE ase at it was doubtful that Lincoln would have no call culty going through Congress. But he added: "The question is when." I have because of it added: "The Air Force said the Minute

The Air Force said furns de out fuel missile still tails would be forthermin, as the mean-was not out soon as Congress considers the other of possibility. The money request. There was no man, it's the Titan. firm indication when this sould launched from uncled be.

The Lincoln Base 100 houses the the medium bom two air wings as an addition to the Control B - 47 the Strategic Air Command readquarters at Offutt AFB, Omana. The ICBM facility would also be under SAC.

Other Missiles Possible

The Air Force said earlie it was considering Lincoln as on of several possible loca cas. la mati announcement, the . . 1 orc. . . . id it was not limiting to to to the Atlas missile. The hand he door open for basing b

has not been announced.

An aide to Sen. Carl 'I'. Curtis than the Atlas. It has construly tested twice.

or to of carrying

OMAHA DISTRICT
WYOMING EAGLE, CHEYENNE, W.
11 March 1959

Final Teles

To SHIF Green - (UPI) - The Air Texts has disclosed that its to the har disclosed that its to the interest of the continental ballistic to the IC 12 are will be located to lower the Parce Base. Neb. To serie that the text of the series of the series of the transfer of the series of the transfer that the Lincoln had to the text.

From the service of t

the ICBM wave, not counting nuclear warhers and the price of 1 mc, costs approximately 200 million dellars.

The Air Perce disclored prevition but Albe russ les will be hand at Vendenberr Air Force East Calif. Cheyenne, Wyo., in the Conaha, Neb., area, and in the Spokane, Wesh., area, Titans will a based in the Penyer area.

Furies Air Torce Bare, Topeka, Bin, also has been selected as an ICBM site and the missis of will fire has not been anno need.

Lincoln Is Picked

for Missile Base

Associated Press Special Service
ASHINGTON The airforce Monday designated
the area of Lincoln, Neb., as the site for an intercontimental ballistic missile base.

A statement issued late Monday reversed the position given earlier in answer to inquiries in which an airforce spokesman said the Lincoln area was a rong several locations involved in arrays for figure missile sites, but that the studies had not been consisted.

The new statement said the airforce has added Linrole to its request for construction authorization for the reas starting July 1 and that after approval by congress add tonal details will be announced.

the airforce has previously announced six interconstant ballistic missile base sites. Four have been class sated to handle Atlas missiles. One site; on Lowry table near Denver, Colo., has been designated as a little missile site.

Snother location, near Forbes airforce base mean Topika, Kan., has been selected as a missile site but there has been no public designation as to which missile will be placed there.

de four announced Atlas launching sites are Vanden g airforce base, Cal., Warren airforce base, the one, Wyo., Offutt base near Omaha, Yeb., and the lid near Spokane, Wash.

de airforce estimates the direct cost to build and gur an intercontinental missile base at about 290 million of llars. This cost excludes the warhoads for missiles, the price of the land, if the government has to purthas it, and the training of men required to hundle the missiles.

OMAHA DISTRICT ENING JOURNAL, LINCOLN, NEB. 26 March 1959

Storage Is tile for Atlases incoln Missile Site earance of Local Base igs About Some Confusion

By Dave Birnham and

gton-Several Air Force officials said here the on of the Atlas intercontinental ballistic missle site

has not been finally decided.

r reports had indicated that the huge instruments
of the placed in underground silos.

th this possibility is not completely ruled out, a

slightly different picture is beginning to emerge.

One informed source believes the Lincoln Atlases will be stored horizontally in what he described as "large coment 'bathtubs."

To be fired, the missile would be raised to an erect position.

Further reports also Indicate that the Atlas, resting in its cement bathtub, might be encased in a "steel coffin."

Launching would then involve withdrawing the missile from its steel encasing and placing it in an upright position. One informant said this could be accomplished with "tremendous speed."

Confusion over what the Lincoln missile site would look like has apparently been created by new technical developments in the Atlas pro-

Earlier versions of the Atlas missile cannot be placed in any underground shelter. It is believed that the missiles to be placed near Offutt Air Force Base are of this early type.

First missile to be designed with the capability of being stored in the completely underground silos is the Titan.

Recent Atlas developments, however, have apparently allowed the Air Force a degree of latitude in Atlas "harden-

military construction riation bill for fiscal 960, containing details Defense Dept,'s buildans, has not yet been acdelivered to Congress. ect to momentarily, it is ht the appropriations bill pei cut more firmly exd plans for Lincoln.

p. Phil Weaver (R-Neb.) ng a recent Lincoln meetre ted at that time that es might be placed for storing and n sone type of "hardenhinst damage was the subt of defense experiments.

OMAHA DISTRICT WORLD HERALD, OMAHA, NEER. 10 March 1959

It's Official: Atlas Base for Lincoln

World-Herald Washington Bureau, 1220-22 National Press Building. The Air Force Monday officially designated the area of Lincoln, as the site for an intercontinental ballistic missile base.

The announcement confirmed a story in The Sunday World-Herald March 8.

Senator Roman Hruska and Representative Phil Weaver said they were advised by the Department of Defense that the Air Force has added Lincoin to its request for author-i ization to start construction during the fiscal year starting July 1.

The Senate Armed Services Committee is scheduled to begin hearings on a military construction authorization bill today.

وملك 10 April 1959

Degree of 'Hardening' at LAFB Disputed

Missile Sites to Be Reinforced

By Gordon White

vair missile engineers here weapons are developed. Payare finishing plans for crash load of the Atlas will be more construction of slightly rein- ton 4 times that of the solid- is one of the chief factors in forced Atlas missile launch feel minuteman, latest an- hardening plans according to sites at Lincoln Air Force bounced U.S. ICBM. Base.

In order to get U.S. missiles ready to go as quickly as pos- siles will be almost totally in sible, the first 4 Atlas squad- the open. Each squadron will rens, at Offutt, Warren, Van- have 3 launching pads. denberg and Fairchild Air Force Bases are being put on "seft" unprotected launching pacis.

Five other Atlas squadrons at Lincoln, Warren, Forbes, knocked out by H-bomb hits Schilling, and two still 'secret more than 12 miles away. locations' will go into concrete surface bunkers, but will not be fully hardened.

Construction Longer

Soft bases wil begin to become operational this summer. Fully hard bases will take nearly 3 years to compicte.

The degree of reinforcement is of major importance in determining the vulnerability of the bases to enemy attack, and the number of nuclear warheads required to destroy them.

Strategic Air Command Head Gen. Thomas Power has said hardening carried top priority. Congressional and Pentagon sources say bases for Titan and 3rd-generation Atlases will be built as hard as modern construction can make them.

Rep. Phil Weaver (R-Neb.) said Friday in Washington that the Lincoln Atlas site would be "hardened" to withstand 100 pounds blast over pressure.

Sources within the Pentagon considered wholly reli-able continued to maintain that only 25 pound reinforcement was planned for Lincoln.

Missile Model T

Contributing to the decision not to build completely hard bases for the first 9 Atlas squadrons is the fact that the Atlas is a missile Model T. Members of Congress are indicating a reluctance to put out the additional money because of a feeling that the Atlas may be replaced within 5 years.

Most Pentagon sources, how ver, expect the Atlas to be

Atlases to be based at Offult and the 3 other early

LAFB More Advanced

Offutt's missiles will be vul merable to blast over-pressures as low as two pounds per square inch, and can be

Slightly more advanced missiles will be based at Lincoln. Elimination of radio guidance will allow more hardening, since there will be no vulnerable antennae above ground. Each missile will be kept in own launcher at single, widely-dispersed sites, roughencircling Lincoln AFB.

Each Allas will be stored in horizontal position in steel d concrete, bathtub-shaped closures. Steel gantries will ise them to firing position thin 30 seconds.

Lincoln Atlas sites will be r sq. in. blast pressures; om a miss as close as 2 perations.

Truly hard bases to be built a nuclear attack.

but to be useful even after later on for Titans and more San Diego, California-Con- is in aller, more advanced advanced Atlases will be deep concrete silos.

Accuracy of existing ICBMS Air Force sources, only one in 4 early U.S. missiles will be able to hit within a 50 mile circle at full 6,300 mile range.

American intelligence sources estimate Soviet missiles are even less accurate. Facing such opor aim, 100 PSI hardening is not yet necessary, according to U.S. Defense officials.

By placing missile sites far enough from each other to assure that a single hit could destroy only one launcher, the number of ICBMS required to wipe out a hardened squadron mounts into the hundreds. An aggressor would have to face an H-bomb blow against his un-hardened cities for every U.S. ICBM he missed.

U.S. scientists are working: toward hitting a 10 mile circle with 35% of the missiles fired. (Another 35% would hit within 20 miles of the target). Similar progress is expected in the U.S.S.R.

As missile accuracy inle to withstand 25 pounds creases, later bases will have to be hardened more, to reduce the danger of destruction iles except during launch of U.S. retaliatory weapons on the ground in the first wave of

WORLD HERALD, OMAHA, NEBR., 29 April 1959

Lincoln Atlas Site Strong

Will Be Tough Enough for Nearby H-Bomb

World-Herald Washington Burrau, 1220-22 National Press Building.
The Lincoln Air Force Base is to be the first Atlas-launching site in the country fully-hadened against enemy missiles.

That was the picture Wednesday, based on the unofficial—but accurate—word that Lincoln is scheduled to be the first Atlas base, plus the testimony of Gen. Thomas S. Power, Commander-in-Chief of the Strategic Air Command, at Omaha.

The term 100-PSI means one hundred pounds to the square inch.

The Lincoln site will resist that much overpressure.

Can't Take Direct Hit
Describing a 100-PSI base,
General Power recently told
a House subcommittee:

"It will not withstand a direct hit by a hydrogen bomb. But being able to absorb a near-miss, you place a tremendous pressure on the agrressor."

The enemy, General Power went on, must plan many missiles against each missile site "to have a 90 per cent confidence factor that he will destroy it."

The Lincoln Air Force Base is among those that will be constructed in varying degrees of hardening—and 100-PSI is now the extreme, though tests reportedly are being made for even harder configurations.

In a hardened configuration, like Lincoln's is to be, the facility is entirely under-

ground.

The Air Force plans to spend \$34,800,000 on Lincoln in fiscal 1960, and construction is likely to be finished by late 1961.

OMAHA DISTRICT LINCOIN EVENING JOURNAL, LINCOIN, NEBR. 17 April 1959

Atlas Dide Planned iti October

For Lincoln Missile Site

A construction start of Lincoln's Atlas intercontinental ballistic missile site by December appeared probable as October was designed for the bid advertising time.

This pre-construction schedule was disclosed Friday in Washington as an Army Engineers spokesman said a di-

'Atlas Safety Factor Geod'

Page 14

rective for the bid letting would be forwarded to the Omaha District Army Engineers office.

The spokesman said in a Lincoln missile complex is part of a construction program by the Corps of Eazineers for 9 new Air Force intercontinental bailistic missile sites during the 1959 cylendar year.

9, according to the Washington Army Engineers, will be about \$300 million. An estimated cost figure for the Lincoln ICBM site has been set at about \$35 million by Rep. Phil Weaver (R-Neb).

As yet, no announcement has been made of the specific sites at which the Lincoin Atlas will be located. It is understood the definite sites have not yet been chosen but will be announced first by the Department of Defense in

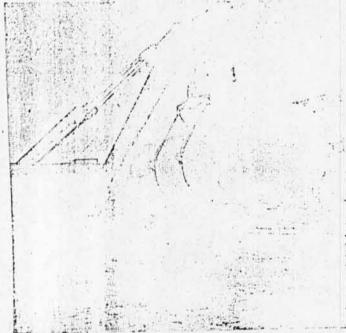
Washington.

Col. Caples said construction work would begin at the 3rd Offutt area ICBM site at Missouri Valley next week. Work began this week at the other two sites — Mead and Arlington.

OMAHA DISTRICT
LINCOLN EVENING JOURNAL, LINCOLN, NEBR.
3 June 1959

4 Wednesday, June 3, 1959-P.M. Lincoln Evening Jou

Atlas' Feeding Bottle



FUEL FOR ATLAS MISSILE—Some 28,000 gallon liquid ox on tanks like this one being lifted by a giant 150-ton rai and crane in the Cheyenne, Wyo., freight yards will be ming to the Lincoln area soon after the Atlas ICBM lation slated here is completed. Liquid oxygen is the major chemical used in making the fuel for the nucle offensive weapons. It and other chemicals in other tanks are piped into the missile at the ICBM sites. These tanks are manufactured in Chicago and moved only by daylight on two flat cars.

OMAHA DISTRICT LINCOLN STAR, LINCOLN, NEBR. 11 June 1959

One Afläs Sife Near Beatrice

Part of the Atlas missile launching facilities announced earlier for the general Lincoln area will be constructed near Beatrice, it was disclosed Wednesday.

Beatrice, it was disclosed Wednesday.

The district office of the U.S. Corps of Engineers in Omaha confirmed the location near Beatrice, according to United Press International.

The site will be on a 16-acre plot on the Paul G. Claassen farm 3 miles south of Beatrice and 3 miles west of Highway 77.

Claassen told newsmen earlier he had been offered \$225 an acre for 16.14 acres of his farm. He said he had not signed and that military representatives had informed him he must accept that price, plus \$1,000 nuisance fee, or be subject to a condemnation action.

Drilling Tests
Routine well drilling to test
geological properties of the
land has been underway on
the farm for some time.

The Air Force announced earlier in Washington that it planned to construct Atlas facilities in the Lincoln area.

Kimball, Too

The Air Force announced another Atlas site will be constructed 2½ miles southwest of Kimball in western Nebraska.

Art Hendrickson, editor and publisher of the Western Nebraska Observer, said the underground installation is part of a 9-site complex for Francis Warren Air Force Base in Cheyenne, Wyo.

The Kimball site will be constructed on a 20-acre plot which the government is purchasing from the A. Painter estate and it will consist of a single underground launching pad.

Kimball, in a booming oil area, is a town of 5,500. Its population has more than doubled since 1950, largely due to the expanding oil in-Edustry.

Hendrickson said Air Force officials have given no indication as to how many military personnel will be stationed at the site.

OMAHA DISTRICT ORLD HERALD, OMAHA, NEBRASKA 11 June 1959

Engineers Seek Site

at Beatrice for Atlas

The Omaha District office of A my Engineers Wednesday confirmed that land is being sought near Beatrice as a part of the Lincoln Air Force Base Atlas missile installation

stallation.

Framer Paul Claassen of
Bearice earlier said he had
been offered 225 dollars an
acre for 16.14 acres of his

Routine soil tests of the Classen land have been going on some time.

issile May Be Located Any One of 13 Areas * * * * * * * * * Points Form Circle Around Lincoln

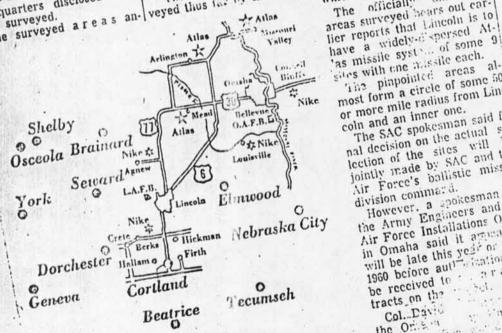
Launching sites of Lincoln's nounced by a SAC spokesman District Office of the Army large in the vicinities of: Launching sites of Lincoln's nounced by a SAC spokesman District Office of the Army Lincoln's nounced by a SAC spokesman District Office of the Army Engineers for us. The spokesare in the vicinities of:
Atlas intercontinental bailistory of the Army Vork, Seward, Brainard, man said.

Seward, Brainard, man said.
Cortland, Readrice, Sibility that more will be surflocated in any one of 13 areas cunsel. Cortland, Osceola, Veyed, it is believed the Cortland Counsel. Shelby, Osceola, Veyed, it is the same as earlier distinctions of the Army Lincoln and Seward, Brainard, man said.

The surveyed Air Command Cortland, Osceola, Veyed, it is believed the Cortland Counsel. The Surveyed have the Army Lincoln and Seward, Brainard, man said.

The surveyed Air Command Cortland, Osceola, Veyed, it is believed the Cortland Counsel. The Surveyed have the Army Lincoln and Cortland Counsel. The Surveyed have the Army Lincoln and Cortland Cortland Counsel. The Surveyed Air Command Counsel Cortland Counsel Counsel Cortland Counsel Couns een surveyed.

The surveyed are as an veyed thus for by the Omaha closed for the Firth area, which is marky announced areas surveyed bears out carlier reports that Lincoln is to have a widely-d spersed At-



SURVEY AREAS - Cities near which surveys have been made, according to SAC, for possible Atlas missile sites are in the larger, italics letters. Other offensive Atlas and defensive Nike sites, previously announced, also are

most form a circle of some 50 or more mile radius from Lincoln and an inner one. The SAC spokesman said final decision on the actual selection of the sites will be jointly made by SAC and the Air Force's ballistic missile

The pinpointed areas al-

division commard. However, a apokesman for the Army Engineers and the Air Force Installations Office in Omaha said it arrivars it will be late this year or carry 1960 before ault ination will be received to and got tracts on the

Col._David said his where were his w the One naming on the had find reflect is and would not add) natines any of the engless. Fig. is they expected to be t through with their way in two or a more weeks. results are given a SAC and the AF ballistic missile divi-He explained that most of sion commani.

the sites stud oil involved assewhere om 12 to 20 acres Surveyors crilled and the samples on the Walt in the reif farm & Eastern State and Land Elawood are . . sur evers h

OMAHA DISTRICT

IN JOURNAL, LINCOLN, NEBR.

1 July 1959

Actual Sites \ Not Yet Picked

Special to The Journal Was non gt on-Rep. Phil Prover (Relate spid the Air Porce old him Wednerday it and no yet made finel solvetions of any of the f sites or the Lincoln Atlas missile facilities.

million figure originally requested.

Col. Leonhard indicated in his testimony that underground Atlas facilities were now being programmed by the Air Force to cost \$42.8 million.

The Air Force missile man, however, had earlier indicated that costs for the Atlas silo launchers would be in the "same ballpark" as the costs for the Titan silo launchers.

Col. Leonhard estimated the costs for 4 Titan missile squadrons as running around 225 million, or 56 million per squadron.

The military construction bill now up for final congressional approval contains a \$400 million figure for missile bases.

Exact amounts were classified but it was known that funds for the Lincoln complex were included in the lump sum for fiscal year 1950.

In other development, according to the Arr Force, "soft" launchers, of the type being built at Offut, would be destroyed by only 2 psi pressure.

This means that the Offutt missiles could be knocked out by a 10 megaton weapon which missed its target more than a dozen miles.

The 25 psi "semi-hard" launchers originally planned for Lincoln would have been less vulnerable. But a 10 meg aton head, landing closer than 5 miles, would have destroyed them.

The "silo" type launchers, now being considered for Lincoln, could withstand a hydrogen warhead hit less than 3,000 yards away.

The Air Force listed 9 individual, 12 acre lots as "procured in 1959" for the Lincoln base complex.

Precise locations were not given, but testimony indicated that no two launchers would be spaced closer than 13 miles apart, the estimated biast radius of the Soviet missile.

The committee was told that the U.S. planners were thinking of a missile force of 300

to 500 ICEMS.

Early facilities at Offutt.

Vandenberg AFB, Calif., and 5
Warren AFB, Wyo, are "soft"
because of the necessity to get

AFS, pris the regulability oper
tional at the earliest possible.

mates also revealed that concets at Lincoln were expected to be signed early in June

Missile Site Surveys Involve Drilling 200 Feet to Hard Rock

By Bill Hinel Southeast Nebraska Writer Beatrice—What does an on-

the-site survey for possible missile installation involve?

John Flaherty of Ft. Pierre, S.D., drilling on the Paul G. Claassen farm southwest of here, said holes are being drilled to hard rock, 200 feet down.

Reason for the holes, he said, is to obtain soil samples to determine the ground structure for construction purposes.

Other members of the test crew are Kenneth Palmer, inspector; and Lloyd Fulsos and Wayne Winchell, helpers, all of Ft. Pierre.

Surveys are under the direction of the District Army Engineers of Omaha.

Cable Rig

The crew is operating a menium-sized cable rig, commonly used for digging water wells. Palmer said the holes are cased to their full depth to keep out water.

Classen and his wife say they are not happy about the idea of possibly giving up 16 acres of their 400-acre farm for a missile site.

Claassen said, his main objection was the quited offer of \$225 per acre for his land by the Corps of Engineers and the fact that officials won't talk about what they intend to do with the land.

The plot of ground requested by the Engineers is about the only piece of level ground on the Claassen farm and is used for a corn field, he said.

Not Irrigated

The farm operated by Claassen is not irrigated and is lairly rolling. The Claassens also opearte a Grade A dairy. The farm has been in the Claassen family about 50 years, with land in the area generally bringing about \$300-\$400 an acre.

Claassen said he feels that the \$225 offered is too low, especially considering its location in the middle of his farm.

He indicated that he will not sign the papers left him approving the sale. And govern



of Beatrice live on a farm which he says has a surveyed by Army Engineers in connection with their search for sites for missiles.

be used if necessary,

in other areas, as e surveyed leading allation of 9 Atlas ental Ballistic Mis-

reas

Surveyed

de farm two miles
outh of Dorchester.
It is recently surAl Yungdahl farm
lest and one mile
osceola. Lungdahl
in-irrigated tract is
ind."

ples were taken
was surveyed near
farm land owned

was surveyed near
farm land owned
cow, Dave Scow,
and Mark Alt. Most
d is flat according

special spokesman said agineers have been in surveying land 3½ west of Seward and two is north of Highway 34. land is farmed by Fay Burdett Watson.

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBR. 1 July 1959

hould V. Stand Relatively Close Megaton Blasts

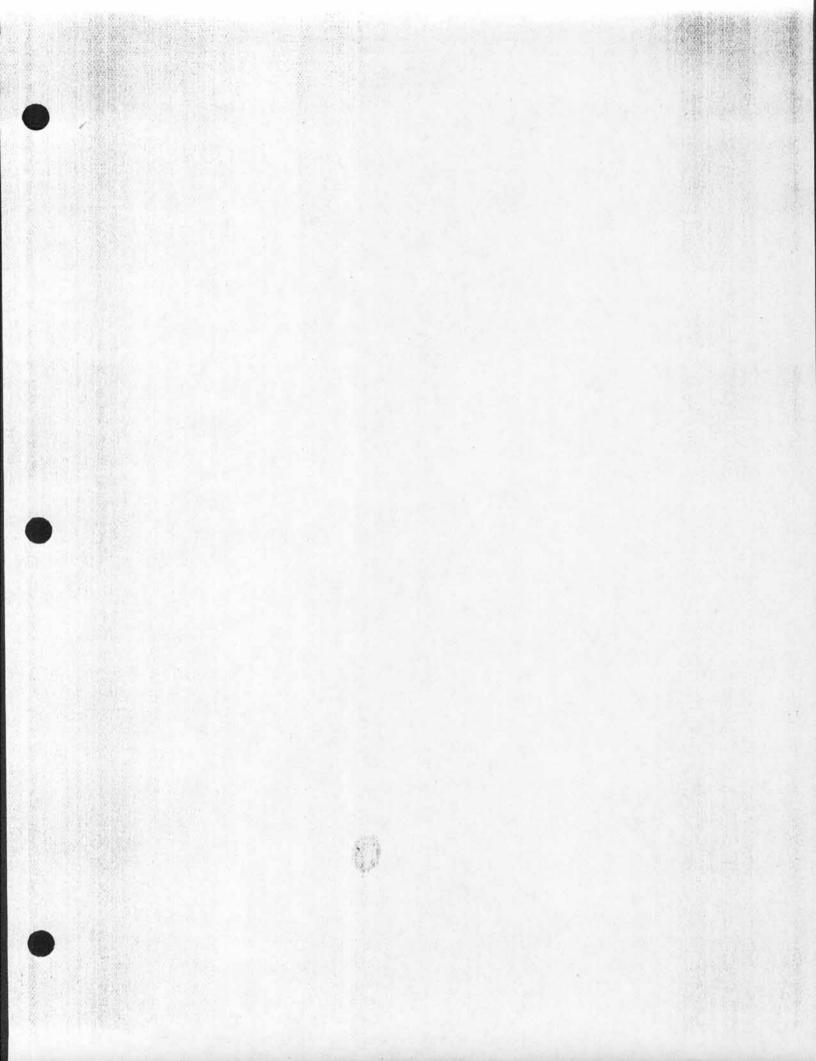
-.1

Handened Launchers Set for Area Missiles

By Gorden h. White and David Enrolland

Vashington + Ar Force A Defense Dept. source regioners are designing unported swiftly changing technical concepts probably would be built to withstand would dietate abandonment 100 pounds per square inches intercontinental ballistic would dietate abandonment 100 pounds per square inches assile, slated for the Lincoln of the preliminary plans for of pressure or a nuclear extension of the "horizontal ball ht ub" plosion and would involve the launchers.

Secret testimony released launchers originally seenes duled for the Lincoln missing Dispropriations of the "hard-" Rep. Phil Weaver (R-1st); liam Leonhard, of the Air Continued on Page 2



Associated Press Special Service

Washington-The Air Force lans to let contracts for Atlas hissile bases in Wyoming, cbraska and Kansas beween September and Febru-

of the Air Force Ballistic Mis- Col. Leonhard said design tions, availability of govern-

Leonard's testimony, made the installations. sile Division. he three missile squad- down.

rol

January and February, re-Schilling with a cost of \$3.750, on-base roads at missile sites. spectively, for the Lincoln and 000.

Schilling installations."

public Wednesday, came in the intention was to fund of 140 million dollars to basis but he gave no break- (D-Calif), he said these funds

The overall estimates show

OMAHA DISTRICT NONPARIEL, COUNCIL BLUFFS, IA.

14 July 1959

Bess Comments Sol Lawy in "Co "We expect to let contracts that about 28 miles of roads struction bill for the year in September as soon as we would be needed at Warren, which began Wednesday to In September as soon as we would be needed at warren which began weakesday to get our 1960 appropriations for with a total cost of \$1,900,000; get a program underway that the squadron at Warren," Col. 2215 miles at Lincoln to cost will improve local roads between adequate highways and Leonhard said, "and . . in \$1,125,000 and 75 miles at tween adequate highways and January and February residential sould be seen as the second of \$2,750 and \$2,750 a

The references were to War- of access to these launching Office told the subcommittee a closed session of a House ren Air Yorce Base, Wyo., areas is an important factor Appropriations subcommit- Lincoln AFB, Neb., and Schil- in site selection but such

In response to a question by support of a request for a such projects on a priority Chairman Harry R. Sheppard "substantially completes the

Missile Assembly Likely But he estimated that about \$1 million each would be sought in the 1961 fiscal year program for such things as missile assembly at the Lincoln and Schilling bases.

The Air Force also sought \$4 million in the military con-

Col. Jackson said the case Air Force Civil Engineering

To Build Atlas Base At Lincoln

· OMAHA - An Atlas Intercon tinental Ballistic Missile complex will be constructed near Lincoln. Neb., the Air Force announced

Col. James S. Caples, Air Forms -Regional Engineer, said it will be the eighth Atlas squadron in the U.S. It will consist of nine launchers generally grouped in a circular fashion around Lincoln 20 to 30 miles from the center of the city.

Construction is scheduled to begin the first part of 1900. Design

ciated Press Special

Service hington-The Air Force to let contracts for Atlas le bases in Wyoming, aska and Kansas ben September and Febru-

ropriations subcommit- Lincoln AFB, Neb., and Schil-by Col. William Leonhard ling AFB, Kan. ne Air Force Ballistic Mis-

three missile squad- down.

Base Contracts Set Early In '60 get our 1960 appropriations for with a total cost of \$1,900,000; get a program underway that

Schilling installations.

The references were to Warosed session of a House ren Air Yorce Base, Wyo.,

conard's testimony, made the installations. lic Wednesday, came in the intention was to fund

The overall estimates show

of access to these launching Office told the subcommittee areas is an important factor in site selection but such things as geological formations, availability of government-owned land and target coverage must be considered.

In response to a question by Chairman Harry R. Sheppard (D-Calif), he said these funds "substantially completes the Atlas program."

Missile Assembly Likely But he estimated that about \$1 million each would be sought in the 1961 fiscal year program for such things as missile assembly at the Linoln and Schilling bases.

The Air Force also sought 4 million in the military con-

the squadron at Warren," Col. Leonhard said, "and . . . in January and February, respectively for the Lincoln and 1000 with a total cost of \$1,900,000; will improve local roads between adequate highways and \$1,125,000 and 75 miles at \$1,125,000 and 75 miles at spectively for the Lincoln and 1000 cost of \$3,750, cost spectively, for the Lincoln and 000.

Col. Leonhard said design is underway for all three of

port of a request for a such projects on a priority al of 140 million dollars to basis but he gave no break-

OMAHA DISTRICT NONPARIEL, COUNCIL BLUFFS, IA 14 July 1959

To Build Atlas Base At Lincoln

OMAHA - An Atlas Inter ontinental Ballistic Missile con clex will be constructed near Lincoln, Neb., the Air Force anno need Tuesday.

Col. James S. Caples, Air orce Regional Engineer, said it will be the eighth Atlas squadron in the U.S. It will consist of nine launchers generally grouped in a circular fashion around Lincoln 20 to 30 miles from the center of

the city. Construction is scheduled to begin the first part of 1960. Design SHARTHEINA WIN THE FALTING

"We expect to let contracts that about 38 miles of roads struction bill for the year in September as soon as we would be needed at Warren which began Wednesday to

Col. Jackson said the ease Air Force Civil Engineering

OMAHA DIS RICT LINCOLN JOURNAL, LINCOLN, NEBR. 14 July 1959

Lincoln Atlas Sites Narrow to Needed 9

The 13 areas studied for thing studied which could be Lincoln's Atlas intercontinental ballistic missile complex have been narrowed to the needed 9 sites, but the selected ones have not been disclosed.

Col. J. S. Caples of Omaha, U.S. Air Force Regional Civil Engineer, said the Omaha District Army Engineers' real estate men would begin negotiations in the next two weeks to purchase the land.

Although the Colonel said the sites would be announced by Nebraska congressmen in the involved district, he did describe the selected 2 as forming an oval around Lincolu.

"This oval will go about 30 miles north of Lincoln near Brainard, south short of Beatrice, west as far as Seward on and east about 20 miles to op. Elmwood, Col. Caples said.

Previously announced area

d. Co les are Shelby, Oscek, Geneva, Fairbury . d Noraska City.

Other areas studied in the ar Framard, Seward, Dorest. Cortland, Beatrice, in and Tecumseli.

Col. Caples said the maxinum for any one area will a 20 peres.

He

(1.1)

311

prou

. Ho

repo

that

are

hit

17 1

id individual launchis the similar in design at Topeka-"semi--buried flush with the

> ever, it was recently d from Washington e Air Force engineers esigning underground for Lincoln's ICBM

Omaha colonel believes | or construction will be in September, with believed construction e underway by early

wi " cest of structural consti tien will be in the neighcor of of \$12 million.

OMAHA DISTRICT LINCOL STAR, LINCOLN, NEBR. 16 July 1959

23 The Lincoln Star Thursday, July 16, 1959

es Sires Out By

Dids on construction of 9 by Omaha District Army En-: September and actual con- Col. Caples fold the Star it Atlas ICBM sites around Linguineers continues in 13 areas struction could begin im-was "oo carly to say when coln are expected to be forming an oval" around mediately after the bids were actual negotiation for land for awarded in "December or the capital cit, in which the awarded in December, the sites would begin" and January," according to Col. 9 sites eventually will be. It was earlier reported that that "appraisal work would J. S. Caples of Omaha, U.S. constructed. Air Force Regional Civil Engincer.

Bids In eptember

Meanwhile, land appraisal bids would probably begin in the sites.

the Engineers would begin have to be completed first."

negotiations in two weeks for: The "oval" around Lin-He said advertisement of land on which to construct coln, of areas now being studied. Col. Caples said, reaches 20 miles north to Brainard, south near Beatrice, west as far as Seward and to a point east of Lincoln about 20 miles.

> Col. Caples said selection and purchase of land for the 9 launching sites would have to be approved by the House Armed Services Committee and Congress and that the official announcement of the purchase of the sites would most likely come through the office of Nebraska Congressman Phil Weaver.

Maximum 20 Acres

The Atlas sites, the maximum size of which, in any one area is 20 acres, will be identical to the Atlas Missile complex at Forbes Air Force Base, Topeka, Kan.

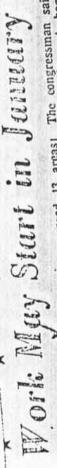
The missiles, to be stored in underground "siles" will be on "semi-hard" launchers buried flush with the ground.

It has been estimated that an Atlas intercontinental ballistic missile could be fired from Lincoln to Moscow, a distance of 5,250 miles, in 30 minutes.

About 700 personnel, quartered at Lincoin Air Force Dase are expected to be needed to man the 9 launch-

Structural construction costs of the Lincoln Arles going ex. Col. Caple: said, with the beautiful the neighborhood of the Todal a company in in-

135



These are among the pre-limittee.

They will be in the areas of announcement by the Air Air Force may begin grading trainard, Seward, York, Dor- Force came through Rep. work this fall col. James chester, Cortland, Beatrice, Phil Weaver (R-1st), who is (In Nebraska, Col. James

ることな

By Dave Burnham Toursly announced 13 areas The congressman said the washington—The Air Force ander study as sites. Dropped the fonstruction work by cations for the Allas intertions were the Geneva, Fair Jan. 1 and expects the instalmental ballistic missiles bury, Osceola and Shelby lation to be completed in the Lincoln areas.

These are among the pre- mittee. in October and opened 30 days

await completion of the missile complex design, which is being executed by the Air Force's Ballistic Missile Di-(He explained bids must vision in Los Angeles.

("I've no information on what type of missile the Lincoln Atlas base will have until I'm told," Col. Caples said.)

Rep. Weaver's conversation with Col. William Leonhard of port in Washington repeated the Air Force's Ballistic Missile Division in which the latter told Weaver "Lincoln will be a silo type Atlas installa-However, an early July re-

Der Velle Hallame & freth

LA.F.II.

Seirardagne

Brainard

ions would use the berizontal . 1 . Ataly" or the vertical pressure or a nuclear explopounds per square inch of hard whether the design for the 100 pei installation (100 asked Leon-Weaver had sale" facility.

BEST CAS. 100 THE

Weaver amounted

will be sites for Lincelu's

MINSTEE SITES-The 31-

sted by there My V

Tecumsel

Beatier

Jurillan.

technical equipment needed to launch the ocean-spanning nuclear warhead carrying is understood to be neces-sary because of the large amount of highly complicated iod required for the facility The Nebraska lawmaker the 9 site Atlas missile facility is expected to total ap-The 16-month building persaid total construction cost for proximately \$35 million.

for the land acquisition was obtained in "our fiscal 1959 military construction pro-The Air Force said approval жеароп.

tate department to go ahead and negotiate for sale of the An Omaha Army Engineers spokesman said Wednesday ized the Engineers' real esthat Col. Caples has authorgram."

tion begins, the Engineers two before this land acquisi-(It will be another week or spokesman said.)

Seward, Butler and Gage.

The sites, ranging from 22 to 54 miles, from Lincoln Air Force Base, will be about 12 gin until January, it was be-lieved all crops now on the involved acreage of the 9 With construction not to besites would be harvested! acres each.

sites as authorities by Bep: Description of the missile Army engineers in Omaha said it would not be known for several weeks what specific farms would be involved.

Lincoln AFB (Elmwood way 34, 24.5 miles east of the One half mile north of High-Weaver follows:

or 51.5 miles southeast of the Lincoln AFB. (Nebraska The south side of Route 2E

\$35 Million

trice, or 52 miles south of the Lincoln AFB. (Beatrice, land, or 30 miles south of Lin-Four miles east of Court-Five miles southwest of Bea-The west side of Route 50, or 54.5 miles southeast of the Lincoln AFB. (Courtland area) coln AFB. (Tecumseh).

Lincoln AFB. (Seward area). or 461/2 miles northwest of the Lincoln AFB. (Brainard area). Counties involved are Cass, Otoe, Johnson, Saline, Y or k, or 25 miles northwest of the . The north side of Route 30A, Five miles west of Seward, .. The north side of Route 50, or 50% miles west of the Linchester, or 35 miles southwest Three miles south of Dorof the Lincoln AFB. (Dorcoln AFB. (York area). chester .area). area).

and Nebr. State Sournal INCOLU JOURNO

OMAHA DISTRICT
SIOUX CITY JOURNAL, SIOUX CITY, IA.
30 July 1959

Announce Sites for Missiles

Around Lincoln

WASHINGTON (M - The airforce has listed nine Atlas launching sites, ranging from 22 to 54 miles from the Lincoln airforce base in Nebraska.

The sites were listed as follows:

One half mile north of highway 34-24, or five miles east of the Lincoln A. F. B.

The south side of route 23, or 51½ miles southeast of Lincoln.

The west side of route 50, or 54½ miles southeast of the Lincoln, A. F. B.

Four miles east of Courtland, or 30 miles south of Lincoln.

Five miles southwest of Beatrice, or 52 miles south of Lincoln.

Three miles south of Dorchester, or 35 miles southwest of Lincoln.

The north side of route 50, or 50½ miles west of Lin-

Five miles west of Seward, or 25 miles northwest of Lincoln.

The north side of route 3a, or 461/2 miles northwest of Lincoln.

The sites are expected average about 12 act a case

No Tipping, but ..

OMAHA DISTRICT
WORLD HERALD, OMAHA, NEBRASKA
29 July 1959

A.F. Selects 9 Atlas Sites

Lincoln Base Support Point for Missiles

Atlas flight from Florida success. Story on Page 3.

By John Jarrell

World-Herald Washington Burrut. 1220-22 National Press Lathing.

The Air Force announced Wednesday the location of nine Atlas launching sites around Lincoln.

Members of the Nebraska Congressional delegation were informed that the Atlas sites would be in Cass, Otoc, Johnson, Saline, York, Seward, Butler and Gage Counties, with two in the latter.

be situated five miles southwest of Beatrice and four miles east of Cortland. In Saline County the site will be three miles south of Dofchester and in Seward County five miles west of Seward.

The Cass County site will be one-half mile north of Highway 34 and 24.5 miles east of the Lincoln Air Force Base, the support facility.

Otoe's will be on the south side of Route 2-E, 51.5 miles east-southeast of Lincoln. The Johnson County plot will be on the west side of Route 50, 54.5 miles southeast of Lincoln.

The York County site will be on the north side of Route 50, 50.5 miles west of Lincoln. The Butler County spot will be on the north side of Route 30-A, 46.5 miles northwest of Lincoln.

The Lincoln Atlas project will employ the "unitary" concept, in which one missile is located on each site. This contrasts with the Omaha installation, in which three "birds" are located on each contrast.

evec. ec

To 54 Miles From

ington revealed the sites for Counties.

The Air Force announces sile sites, according to press listics Missile installations in ment of the location of the dispatches.

Atlas 15-0 Missouri Valley Allas Arlington -k Plante (.ouncil Omaha, Bluffs 4. O Mend rainard Bellevue Mas Agnew 83 0 Elmwood L.A.F.B. Lincoln O Hickman Herks der | Firth Hallam O Cortland

the large black dots represent sites for the Lincoln area missile complex. Rep. Phil Weaver announced y. The Atlas bases marked with stars belong to complex already under contract.

the Lincoln area to Nebras- missile sites came through Originally, to areas were ka's congressional delegation. Rep. Phit Weaver (Rep. 1st), under study by Omaha District Corps of Engineers as Gage County, one each in fense Appropriations Sub- possible Atlas sites. Dropped range from 22 to 54 miles coola and Shelby areas. from the Lincoln Air Force Land purchased and prices

Base. Mosey Appropriated Money has already been ap- spokesmen. propriated for construction of the Atlas launching siles, but no land has been acquired sites announced by the Air yet Air Force officials in Force through Rep. Weaver: Omaha said that negotiations One half mile north of Highfor the 10 to 12-acre areas way 31, 24.5 miles east of needed for each site would be- LAFE in Case County. gin in mediately.

will be advertised in October County and opened 30 days aftermove in within a very short Johnson County. time after the contracts are: Four miles ast of Cortland, James Caples, Air Force In- | Gage County. stall lons Officer at Omaha. Five miles south of Bea-

tion could begin this year, in Gage County.
Col. Caples said. Construct Three mass south of Dorand control room blockhouses LAFB in Scienc County. is expected to take 16 months. North sair of Rt. 50, 50.5 \$35 Allison

Some 540 workers will be County. engaged in the Lincoln area Five to be west of Seward

By George Moyer Otoc, Cass. Johnson, Saline, bases. The rich will be boused Air Force officials in Wash- York. Seward and Butler at Lincoln AFR and will com-

may be known in a week, ac-cording to Cor, s of Pagineers

" ar Sites

Description of the missile

South side of Rt. 2-15, 51.5 Bids for construction work, miles cast of LAFB in Otoe

West sk! of Rt. 50, 54.5 "Contractors will miles southered of LAFB in

approved," according to Col. 30 miles are n of LAFB in

This means that constructurice, 52 miles south of LAFB

tion on the sile-type launchers chester, 35 miles south of

miles west of LATE in York

25 miles withves. of LAT

Total cost of the project is in Seward County.

Sestimated at \$35 million.

North 5 de of Lt. 30-1. Seven hundred airmen will miles not west of LAF so be needed to man the Atlas Butler County.

Lincoln Evening Journal and Ne.

Missile Projects Chief Assigned

office at Lincoln Air Feese.
Base will more than double its staff as this area's defensive and defensive missive construction program are rolling.

Now assigned to supervise the Army Engineers responsibility in building the two Nike-Hercules sites and the 9 Atlas intercontinental hallistic Missile sites is Maj. Lester J. Henderson.

The Army major's current title of resident engineer will-change to area engineer as the Atlas complex construction begins early next spring. By that date, the Lincoln Army Engineers personne of 20 will be almost doubt 4, according to Ed Thurber, sistant to Maj. Henderson.

The Army officer's imediate job will be the summary vision of the construction of Nike sites at Agnew and Berks.

Beacon Construction Co of Boston, awarded controls is for both the Omaha and Lincoln Nike projects, has legun work in the Omaha and Thurber. resident enginer until Maj. Henderson's arrival, said Beacon recesentatives should be in accoln soon to set up constitution equipment, for the blace.

Maj. Henderson will be esponsible for Army Engiser liaison with the final awarded the Atlas constitution job in early 1960.



Maj. Henderson and Asst. Thurber study Nike plans.

OMAHA DISTRICT
NONPARIEL, COUNCIL BLUFFS, IA.
28 October 1959

\$31,900,000 For Atlas At Lincoln

WASHINGTON (*) — The Air Force has released \$31,900,000 for construction of various facilities in connection with an Atlas missile base at Lincoln, Neb.

Construction will include: Communications support facility, missile assembly building, missile storage facility, missile launching stations, and re-entry

vehicle facility.

Over-all estimated cost of the base including construction and the missiles, is around 88 million dollars.

WORLD HERALD, OMAHA, NEBR.
9 October 1959

Atlas Employes to Need Houses

Lincoln (AP)— Employes at the three Atlas missile sites around Lincoln will bring a peak one million dollars monthly pay roll to the area, the Lincoln Board of Realtors has been told.

Larry M. Failer, director of industrial relations for Convair-Astronautics, said 17 to 18 hundred workers will be looking for housing in either Lincoln or Frement.

"Many will must to purchase a home for the 21/2 or three years required to complete electronics work," he said.

The influx is expected to start next June. The sites are near Lincoln, Fremont and Mead.

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEIR. 16 October 1959

IF Officer Says 7.6 Miles to Be Built

Access Roads to Be Short

ccess roads to the 9 Air ment-financed roads will be ously announced are presumbe Atlas ICBM sites sur- built in co-operation with the ably close to existing roads. iding Lincoln, will be state and county go arm ent. Sites have been announced t, comparatively unobtru-and probably available Strategic Air James F. Caples, USAF confirmed the access and chester, Cortland Elmwood. outlined the procedure 7.6 miles of road-building

i whereby the federal go ern-; Some of the 9 sites previ-

Compand in the areas of Nebraska headquarters at Offitt B City, Beatrice, York, Seward,

Continued on Page 12

Land-owners whose propery will be cut by the new acvess roads will have full use of them, it was stated. Cattle crossings will be provided if necessary:

Easements are obtained on: land surrounding the missile sites, permitting use of the land for agriculture but not for human habitation.

"The idea," Caples said, is to disturb the owner's property as little as possible."

All will be controlled by Lincoln Air Force Base.

Ltlas

All Will Be Card-Surfaced

Continued From Page 1

20 acres in size, according to Caples) will be owned, built and maintained by the federal government. These roads will not be accessible to the public.

Fences

Sites are to be surrounded by man-proof fences for safety and security reasons.

In some cases, a road must be built from the launcher site to an existing public road (Federal, state or coun-

The Defense Dept. starts the ball roiling on the process of building these access roads.

Engineering Study

The Defense Dept., with the state involved, undertakes an engineering study to determine road requirements and

Funds are then transferred from the Defense Dept. to the Bureau of Public Roads, which in turn transfers them to the state. The state may then transfer funds to the county involved.

Private contractors will build the access roads on a bid basis. Contracts may be let by the county.

Hard-Surfaced

The 7.6 miles of these access roads involved in the Lincoln concentration would all be hard-surfaced.

Caples said maintenance is usually carried on by the county in an agreement with the Air Force command involved. In this case it would be Lincoln Air Force Base.

In some cases, existing roads are satisfactory or need only to be improved.

'Few Men'

Traffic on the access roads, and on existing roads leading to sites, will not be great, according to Caples. It will consist, he said, of "a few men charging shifts each day."

.9 Million for Construction

incoln Missile Site Funds Allotted

By Bess Jenkins 31.9 million sum from SAF military construcbudget in Washington the green light to Lin-9-site Atlas missile sys-

construction. reall estimated cost of ase, including construcand the missiles, is d \$38 million.

announcemnt, made by Phil Weaver (R-Neb)

sids will be invited in December for the ruction at the 9 sites and ncoln Air Force Base. maha Army Corps of ner builders of the Atbasic structures, opc ds 30 days later

his work. normally Construction, ated within 10 days after ntract is signed, may get r way sometime in Jan-

ermally the system is pleted in a year or less. will open the way for ination of technical facilities equipment, a job for the Force and Convair-Astro-

wood. Slated for building on be stored before assembly LAFB proper are:

-A communication support facility (telephone switchboard).

assembly building -An where the missiles will be assembled, disassembled and checked out.

sch, Nebraska City and Elm- where component parts will two basic structures - the opand after being disassembled.

-A storage facility in the northwest area of LAFB's present ammunition storage building where the missile nosecones or the re-entry vehicle of the missile will be stored.

-A missile storage facility Col. Caples said each each site.

Cortland, Beatrice, Tecum-| near the assembly structure | launching site would include erations and control building and the launching facility.

The Omaha colonel disclosed bids also will be taken in November for a \$25 million Titan base at Ellsworth Air Force Base at Rapid City, S.D. This will be a 3-site complex with 3 missiles at

700 Bidders

As many as 700 contractors, i cluding those on subcon-; tract job programs, can bat expected to bid on the project. according to Col. James Caples of Omaha, USAF in-. stallations officer.

Col. Caples said design of the Lincoln Atlas complex still is not ready for release, nor is the farm land involved

in the site. However, Col. Vernon Hastings of the Air Force Ballistic Missile Division carlier said Lincoln's missile base would be hardened and "much like the Titan." The Titan, now being built at Lowry, Colo., is the most hardencd missile complex yet developed.

Soft Base

Col. Hastings now is stationed at Mead as project officer for the "soft" Omaha Atlas Base's 3 sites and will be in charge of the Lincoln program.

Construction with the \$1.9 million will be done at both Lincoln Air Force Base and at the 9 widely dispersed launching sites at Brainard, Seward, York, Dorchester,

OMAHA DISTRICT WYOMING EAGLE, CHEYENNE, WYO. 12 December 1959

ILINCOLN ATLAS

LINCOLN (UPI)-Construction of an Aatlas intercontinental ballistic missile base in the Lincoln area will be delayed until next spring to permit changes in design.

Col. James Caples, Air Force engineering chief for the Missouri River division, announced the change in design and struction schedule.

It had been announced earlier that bids construction of the Atlas base would be asked early in December, and that contracts would be let in January.

WORLD HERALD, OMAHA, NEBR. 28 October 1959

31.9 Million to Lincoln Atlas Base

Work Will Start in December

By John Jarrell
World-Herald Washington Bureau,
1220-22 National Press Building.

Atlas missile launching s connected with the Lincoln Air Force Base became available Wednesday.

The Air Force told Nebraska Congressional offices that \$31,900,000 was being released for the Line coln missile base, under the military construction program.

Over-all estimated cost of the base, including construction and the missiles, was given as around 88 million dollars.

Warheads Storage

Among purposes for which the funds are to be spent is a "re-entry vehicle facility."

The Air Force, after consultation at the Pentagon, said this meant "a building where mose cones are received, stored and maintained."

This obviously means the storage place for nuclear warheads.

Other facilities listed for sometimes in include a mistration as mistly building, communications support, missile transcate, missile launching stations and utilities.

Nine Launching Sifes

Nine launching sites are to be constructed around, the Lincoln base.

Actual construction, the air force said, will begin in December.

The re-entry vehicle storage facility was described as a "kind of a secure area where is stored what goes up in the business end of the missile."

be "semi-hard" in that they will be protected from the blast of retaliatory missiles but the degree of hardness was not revealed.

The Air Force also revealed these fund allocations:

Beale Air Force Base, Cal.

—Titan base 43 million dollars for ammunition store.ge, missile assembly building, missile storage facility,
missile launching complex.

Moutain Home AFB.Maho — Titan base, \$43,000,-000 for air field approach lighting, missle storage facility, missile assembly building, missile launching complex, and road.

N. M. — Four hundred thousand dollars for construction of an aircraft engine inspection and repair shop.

Same Amount for Schilling

The release of an identical \$31,900,000 for construction of Atlas facilities based on Schilling Air Force Base at Salina, Kans.. also was announced Wednesday by the Air Force.

Like Lincoln, the Kansas ob will consist of nine individual sites.

OMAHA DISTRICT LINCOIN JOURNAL, LINCOIN, NEBR. 29 December 1959

Lincoln May Get Silo Launchers or Atlas Sites

By Gordon White

Washington-A revision of the Atlas ICBM program "is "in the works" and may bring silo-type launchers to the Lincoln area, according to Air Research and Development Command officers.

"Silos" would add up to \$40-million to the construction costs, Pentagon officials estimated.

The latest over-all estimated cost of the base, including construction and missiles, was around \$88-million. Thus, adding silos would bring the e-limated cost to \$128-million.

It was indicated that a bread program change probably would involve a considerable increase in "hardening" of all Atlas missile sites still to be built.

The switch was explained here as the cause of the temporary hold-up in start of construction on the Lincoln ICBM

At the same time, an Army Corps of Engineers official sites. revealed that the Air Force ves pressing for new speed-ups in work on early Atlas launchers such as those going into the facility at Offutt AFB.

Although present target date for completion of heavy work at Offutt is Feb. 25, the Corps spokesman said: "That isn't soon enough for the ballistics missile division."

In Washington, a spokes man for Sen. Stuart Symington (D-Mo) called the Offutt the Atlases "already obsolescent," and described the proposed harder Lincoln installations as better long-term de errent weapons.

The engineers said that plans for the Lincoln base were still in the hands of the Air Force at San Diego.

"We expect to get them about March or April," the spokesman said. "I would call it probable that Lincoln would get 'silo' type launc ers," he added.

Present plans for the 9 Lincoln sites call for "bathtub" launchers sunk below ground level and hardened to take 25 pound blast overpressures from near misses.

"Silos" could take between 100 and 200 pound overpressures, and survive much closer hits.

\$31.9 Million ...

By Bess Jenkins A \$31.9 million sa... the USAF military one tion budget in Wash gives the green light to coln's 9-site Atlas mand tem construction.

Over-all estimate. the base, including . tion and the to: around \$88 million.

The 'announcemet Rep. Phil Weaver means: .

-Bids will be a early December "brick and mertar" construction at the at Lincoln Al Fore

-Omaha Army Engineers, builderlas system's lasic will open bids 30 a for this work.

-Construction, initiated within 10 a contract is signed. under way sometime uary.

Normally the st completed in year This will open the " stallation of teranic. and equipment a Air Force and Con nautics.

MAHA DISTRICT JOURNAL, LINCOIN, NEBR. January 1960

load Bids ealed Fallert

Facility Here

General Concrete Co. of Linin, submitting a \$203,740 gure, is apparent low bider to construct the new perneter and access road to incoln Air Force Base's new lert facility.

The Omaha District office of the Army Engineers said a contract will be awarded in the next two weeks after the two submitted bids are

reviewed. The second bidder was Roberts Co., also of Lincoln. Its bid was \$211,437.

Government cost estimate, was \$154,518, an Engineers

spokesman said. The job includes a perimeter and access road, fencing, lighting and a security gatehouse in the alert facility

The crew readiness or alert facility is scheduled for comniction in late March.

Contracts Revealed

For 'Silo' Type Atlas Launching

By Gordon White

Washington - Missiles contracts for a deep "silo" type underground launch site for Atlas ICBMs were revealed here by the Army Corps of Engineers.

The Corps, construction agent for the Air Force missile bases program, said it has awarded contracts totaling \$2,292,262 to the Bechtel Corp. for the "silo launch test facility," to be built at Vandenburg Air Force Base, Calif.

Prototype

Corps of Engineers sources here described the silo unit as a prototype for operational Atlas missile bases yet to be built, including the 9-missile Lincoln base due to be started this spring.

A Corps of Engineers spokesman estimated that Lincoln plans would not be finished by the Air Force Ballistic Missiles division until March.

The silo, or "hardened" launcher, would make Atlas sites much less vulnerable to enemy attack. So far in the Atlas program, all launchers, including those being built in the vicinity of Offutt AFB, have been "soft" or unprotected.

First plans for the Lincoln base would have hardened it to take 25 pounds overpressure.

9 Atlas Silo Plans Ready

Details Completed for Lincoln Area

Lincoln (AP) - The ninc Atlas intercontinental ballistic missile launchers to be built around Lincoln are to be- placed in 180-foot deep silos, according to Lieut. Col. Hal Schroeder, assistant deputy engineer of the Omaha District.

Colonel Schroeder made' the announcement at a meeting of the Nebraska Chapter of the Associated General Contractors of America, which is holding its annual convention in Lincoln.

It was the first official pronouncement that the final plans for the bases had been settled. There previously had been speculation on what type of bases would be built because of a deferral of bidding on the bases five weeks ago.

Bids in Spring

"The missiles will be smack underground," Colonel Schroeder said. "The sites should look almost like a cornfield."

Bids are to be let in early spring, Colonel Schroeder said, but dates cannot yet be published.

The sites, surrounding the Lincoln Air Force Base, each will consist largely of "one big hole," Colonel Schroeder said.

The silos will be 50 feet in diameter, and the upper por-tions will be lined with nine feet of concrete.

The Atlas missile itself is 10 feet in diameter and 80 feet tall. .

· 123 Million mong installations to be but at the base are a guided m sile assembly and test facil v. liquid oxygen generat ing facility, liquid oxygen dispe il unit and various com m ications facilities. he launchers are to be lo ted at Dorchester. Beatrie, Nebraska City, Seward, Tamseh, Elmwood, York, Calland and Brainard. otal cost has been esti m ted at 88 million dollars, by recent speculation is that the underground silbs would OMAHA DISTRICT
NONPARIEL, COUNCIL BLUFFS, IOWA
14 January 1960

Deep Silos For Atlas Missiles

Bids In Spring On Lincoln Launchers

LINCOLN, Neb. III — The nine Atlas intercontinental ballistic missile launchers to be built around Lincoln are to be placed in 180-foot deep silos, according to Lt. Col. Hal Schroeder, assistant deputy engineer of the Omaha District of the U.S. Army Corps of Engineers.

Lt. Col. Schroeder made the announcement at a meeting of the Nebraska Chapter of the Associated General Contractors of America, which is holding its annual convention in Lincoln.

It was the first official propouncement that the final plans for the bases had been settled. There previously had been speculation on what type of bases would be built because of a deferral of bidding on the bases five weeks ago. Like A Comfield

"The missiles will be smack underground," Schroeder said, "The sites should look almost like a cornfield."

Bids are to be let in early spring. Col Schroeder said, but dates cannot yet be announced.

The sites, which will be located in nine underground silos surrounding the Lincoln Air Force Base, will each consist largely of "one big hole," Col. Schroeder said.

The silo will be 50 feet in diameter, and the upper portions will be lined with 9 feet of concrete.

The Atlas missile itself is 10 feet in diamater and about 80 feet tall.

Base Installations

Among installations to be built at the base are a guided missile assembly and test facility, a liquid oxygen generating facility, a liquid oxygen disposal unit and various communications facilities.

The sites are to be located at Dorchester, Beatrice, Nebraska/ City, Seward, Tecumseh, Elmwood, York, Cortland and Brainard.

The total cost has been estimated at 88 million dollars, but recent speculation is that the underground silos would boost the cost to 128 million.

Lincoln Attended Will Be Silo Type

A Dec. 29 report by The underground or incoln Journal's Washington launchers.

ordinctors meeting, said the mated earlier.

orrespondent that Atlas interofficial announcement of the contractors at their regions might reofficial announcement of the contractors at their regram revisions might reofficial announcement of the underground," Col. Schroeder explained. Uprepresentation missile system
onthing to say at this time."

The switch was explained by an stree confirmed by an stree construct. It col. Ital Schroeder, asofficial announcement of the underground," Col. Schroeder explained. Uprevisions mish reA Strategic Air Command and revisions might reA Strategic Air Command and revisions will be smack for line in silo-type launchers for nothing to say at this time."

The switch was explained for "bethe femporary for he siloa sthe cause of the temporary for hold-up in start of construction here are a facility, a liquid oxygen diguided missile assembly and take 25 pound blast overpres
Tentative dates for bid-toa feet thick.

The sites should look ala feet thick.

The switch was explained for "bar- Force Base itself, and real and hardened to guided missile assembly and take a confirmed by an asthe cause of the temporary for the femoral man and variety and take a confirmed by an arrangement of the femoral man and variety and take a confirmed and hardened to guided missile and hardened to guided missile assembly and take a confirmed and hardened to guided missile assembly and take a confirmed and hardened

1t. Col. Hal Schroeder, as- tion on Lincoln ICBM sites.
Silon on Lincoln District, speaking million to the construction.

3 Atlas missile sites sched- Over-all estimated cost of aled for Lincoln will have the the base, including construc-

around \$128 million.

Silos and the continuity of Lincoln complex were listed sures from near misses. Jour communications facilities to the construction for early spring. "Silos" could take between lies. for early spring.

in diameter and 180 feet deep, sures and survive much clossilo type tion and missiles is now, The "silos" will be 50 feet, 160 and 200 pound overpres-

The Lincoln Journal 14 January 1960

50-Foot Diameter

The silos will be 59 feet in diameter and 180 feet deep, he said. Upper portions of the silos will be lined with concrete some 9 feet thick.

The Atlas missile itself is 10 feet in diameter and approximately 80 feet high.

Among installations which will be constructed at Lincoln Air Force Base itself, Col.; Schroeder said, are a guided missile assembly and test facility, a liquid oxygen generating facility, a liquid oxygen disposal unit, and various ocommunications facilities.

The guided missile assembly and test facility will serve to "check out" the missiles to assure their proper operation, he said.

Lincoln's launcher sites are to be located at Dorchester, Beatrice, Nebraska City, Seward, Tecumseh, Elinwood, York, Cortland and Brainard. Total cost of the complex was estimated at near \$88 million last October.

Cost May Be Up

However, it has been speculated that construction of underground silos would boost the cost by \$40 million—thus approaching a total bill of \$128 million.

Lincoln's Atlas bases previously were announced as "semi-hardened" launching pads, constructed with the tops of the launchers even with the ground.

Construction of the complex is expected to employ as many as 1,800 technical workers.

Some 700 Air Force per-

base after it is activated.

It was the first official pronouncement that Lincoln sites would be "hardened" and followed 5 weeks of speculation triggered by a deferral of bidding on the ICBM bases.

smack underground," Col.
Schroeder told the contractors
at their 33rd annual convention here.

"The sites should look almost like a cornfield," he noted.

Spring Blds
Tentative dates for bid-letting and bid-opening for the
Lincoln complex were listed
for early spring.

(Col. Schroeder placed a ban on publication of exact dates until they are definitely established.)

However, the colonel pointed out, Lincoln dates will
"follow close behind" the
opening of bids for an Atlas
complex ringing Schilling Air
Force Base at Salina, Kan.

Lincoln's Atlas Jaunching sites, which will be located in 9 underground silos surrounding the Lincoln A ir Force Base, will each consist largely of "one big hole," Col. Schroeder pointed out.

-

OMAHA DISTRICT
WORLD HERAID, OMAHA, NEHR. 30 January 1960

Atlas Sites Start in April

Lincoln Installation Finish by June, '61

Construction is scheduled to start April 1 on underground Atlas launching sites at Lincoln Air Force Base. They will have maximum hardening, unit to withstand one hundred pounds of pressure per spare inch.

Member of the Nebraska Congressional delegation were informed i iday by Brig. Gen. Joseph T. Kingsley. Jr., that advertising for bids for the mam in the construction job will take place February 25, with the bids opened

March 21
Senator Carl Curtis, requesting further information of the entagon, was told that the construction is estimated a between 45 and 50 million collars.

Representative Phil Weaver (Parties of Fall ity said of the nine underground launching sites:

"The one hundred pounds tected at nounds not

per square inch construction, according to experts, is the maximum that would be feasible and justifiable to do the job."

Other sources said this degree of hardening would make it virtually impossible to destroy a sites except by direct he of an atomic bomb.

OMAHA DISTRICT
LINCOLN STAR, LINCOLN, NEBR.
30 January 1960

ATLAS CONSTRUCTION STARTS HERE APRIL 1

Lincolu Star Special
Washington—The Air Force
will start construction of 9
heavily protected Atlas missile sites in the Lincoln, Neb.,
area on April 1, Rep. Phil
Weaver (R-Neb) disclosed
late Friday.

The missile sites, to be protected at the rate of 103 pounds per square inch, will be in operation by June of next year, the congressman revealed.

Rep. Weaver said the confice of the Corps of English incers.

Feb. 4, 1959—Final engineering review.

Feb. 25, 1950—Bid advertising by Corps of Engineers.

March 21, 1850—Proposed

bid opening date.
April 1, 1000—Construction starts.

June, 1961—Beneficial occupancy date (this means operational missile on station).

Involved in the construction program is the procurement and installation of generators missile elevators, propellan loading system, heating, ventilating and air conditioning equipment. The generator and elevators will be handle through the Kansas City of fice of the Corps of Engineers.

OMAHA DISTRICT

OMAHA WORLD HERALD, OMAHA, NEERASKA 26 January 1960

Salina Atlas Base 'Hard'

May Be Design Hint for Lincoln Site

Air Force officials revealed Tuesday that the Salina, Kans., missile installation will be the nation's first "fully hardened" Atlas missile complex.

Col. James S. Caples. regional civil engineer, said at Omaha that the site will be completely buried to give it "maximum protection against enemy attack."

The missiles will be stored v tically in underground The control centers e will be subterranean structures.

The underground facility will resemble that for the Titan missile, which likewise is buried below ground. Other Atlas missile bases-including Omaha-are either above ground or "semi-hard" in that they are sunk flush with the ground.

The Salina announcement was seen as a hint of the type of design to be used for the Lincoln Atlas installation, on which bids will be opened in the spring.

The Lincoln project several weeks ago was delayed to permit further study into the degree of hardening to be employed.

Colonel Caples made his announcement to coincide with the issuance by the district Army Engineers of notices to prespective bidders on construction of the Salina Atlas project.

Bid opening will take place February 24.

4 New Atlas Sites Planted

The Strategic Air Command announced Tuesday afternoon addition I Atlas missile launching lilities will be built is Chiahoma, Texas, New Mexico and Northern New York State.

This will bring to 11 the number of Atlas complexes and to the number of intercontine tal lallistic missiles bases the hold the Atlas and the Tit ty as.

Design to Juesday for At-

las facilities were:

Altu Air roce Base, Altus, Okla.; Air. Force Base, Abilene To Walker Air Force Hoswell, N. M., and Planeth Air Force Base, Fi to th, N. Y.

SAC rain sine launching pads will be instructed near each of the bases. All of the bas at onder SAC control.

Previous nounced Atlas rbes. Topeka, bases and to Linco n: Kans.; 5 hill . Salina, Kans.; Fairchil kane. Wash .: nne, Wyo.; and Warren Chr. Vanden erg. inta Maria, Cal. Titan hase

have been announced for lowry, Denver, Colo.; has h, Rapid City. S. D.: 1 ale larysville, Cal.; me, Mountain Mounta Home, date and Larson, Moses I in Vash.

Lincoln Atlas Sites to De Underground

· LINCOLN (UPI) - Lincoln's nine Atlas intercontinental missile launching sites will be underground.

This was told to the Nebraska Chapter of Associated General Contractors Wednesday by . Lt. Col. Hal Schroeder, assistant deputy engineer of the Omaha district of the Army Corps of Engi-

It was the first official pronouncement that Lincoln sites would be underground after five weeks of speculation triggered by a deferral of bidding on the ICBM bases.

Schroeder told the contractors that the sites "should look almost like a cornfield." The tentative dates for bid letting for the Lincoln area were listed in early

Lincoln's Atlas launching sites will be built underground all around the Lincoln Air Force Base. The cost has been estimated at nearly \$88 million. However, it is estimated that the underground construction will boost the cost by \$40 million.

WORLD HEIALD, OLAA, NEBR.
31 Januar 1960

Atlas Can Go 8,000 Miles

Also Accurate as Any of Soviet Missiles -

By Howard Silber
The Atlas, officially described as a 62-hundred-mile missile, actually can home in on a target more than eight thousand miles from its launching pad.

This means an Atlas launched from an Omaha or Lincoln area base could strike virtually any military or industrial installation in the Soviet Union.

And, if the Atlas would perform as accurately in war as it has in some test firings, the targets would be wiped out by the nuclear or thermonuclear warheads.

Evidence Piles Up

Evidence of the added distance capability of the Atlas has begun to pile up.

The Strategic Air Command announced it will build Atlas launching bases in the Southwest—Altus, Okla., Roswell, N. M., and Abilene, Tex.

Launched from Roswell, for example, a 62-hundred-mile Atlas probably could reach Moscow, Kiev, Omsk and some lesser Soviet cities.

But it would fall short of the vital industrial complexes near Stalingrad and Kharkov. More Evidence
would not reach the SoUnion's "Spaceport
I" near the Aral Sea. (See
1 6-8 of This Week maga-

AC was asked about this

We're allowed to say only that the range is 62 hundred males," a spokesman replied.

But it's obvious that we wildn't be putting the Atlas that far south if it didn't have the capability of reaching its targets," he added.

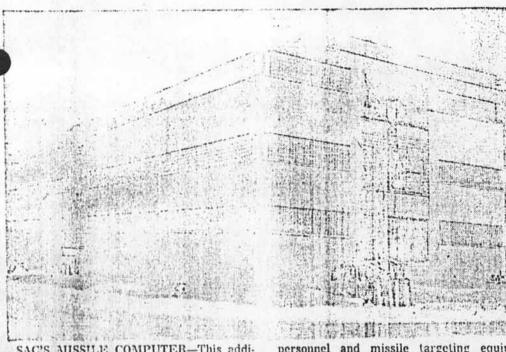
Additional evidence came from Lieut. Gen. Bernard A. hriever, Chief of the Air Free Research and Development Command and former and of the Air Force Ballistic Missile Division.

'Ours as Good'
General Schriever said the
tlas can be flown "farther"
an 62 hundred miles.

Commenting on the Soviet
of in the its multi-stage balit con et fired January 20
it the Central Pacific had
in 1 miles from its tarafter raveling 7,767 miles,
crai chriever said:
Our couracy is as good
a r be er than theirs."
resident Eisenhower has

the the Atlas in long-

wo des of its target.



SAC'S MISSILE COMPUTER-This addition to Strategic Air Command's Control Center in Omaha, to be completed this year, will be the targeting center for all of SAC's intercontinental ballistic missile bases, including the Atlas complex scheduled for Lincoln. With specially trained

personnel and missile targeting equipment, the computer center will supply trajectory and space data into the guidance systems of the 5,500 mile range missiles. This additional structure is a southwing to SAC Control Center.

Lajority of Joint Chiefs Opposed Boosting U.S. ICBM Strength

Special to The Journal

Washington - A majority revealed. of the Joint Chief of Staff In secret use testimony committees in both House and opposed a 33% increase in just released Cen. White told Senate over budgetary re-U.S. in ercontinental ballis- a House Del se Appropria-tic missile strength last tions subcondittee, "I am spring. Air Force Chief of sure that the Army chief of have prevented "the so-called

time."

An Air Force recommendation to inc rase U.S. ICBM strength from 20 squadrons to 27 was approved by the sion. Defense Dept., despite the other services opposition.

order to spend more money this nation." putting the 1 t 27 bases underground,

General W e told the subcommittee | could not say it would be "vital" to beef up the U.S. ICBM r ogra.n with additional liquid-fueled missiles. "I can only say more weapons would be mare insurance," the Air Fores thief said.

| Staff Gen. To mas White has | missle strength last year was

opposed to a me degree any increase, and the Navy op-posed any in lease and rec-

eneral White

pushed by the appropriations committees in both House and strictions.

Asked if the U.S. could staff (Gen. xwell Taylor) ICBM gap," General White told the subcommittee, "I think when you consider evcrything overall, to have done ommended to cancellation of so would have meant makthe Tital | ram at that | ing decisions two or 3 years ago to go faster. I do not believe we had enough confidence in missiles at that time to have justified such a deci-

General White repeated that he felt the deterrent of A 23th resile squadron the Strategic Air Command was cut by the Air Force in was sufficient "to preserve

Lincoln Journal

8 Febr. 1960

'Silo' Plans for Lincoln AreReleased

Structures Will Store Atlas Underground

B-70 maker ready to deliver if funds changed. Page 7.

By John Jarrell

Los Angeles, Cal.—Details of the underground construction where nine Atlas Intercontinental ballistic missiles will be housed around the Lincoln Air Force Base were disclosed Monday by the Air Force Ballistics Missile Division.

The announcement came regarding construction at Vandenberg Air Force Base, Cal., but officials here said the silo-type prototype being built at Vandenberg will be duplicated at Lincoln and five other bases.

Col. William E. Leonhard. deputy commander for facilities at the Ballistics Missile Division, said construction near Lincoln would begin within 60 days.

Greater Protection

The underground silos, it was said, are designed to "increase survivability" of the giant Atlas missiles in the event of surprise enemy attack.

- If hostilities come, the missiles would be raised to ground level and launched "in a matter of minutes."

The Atlas will be maintained in a vertical position at all times.

The contract for excavating the silo and underground block house at Vandenberg and for pouring reinforced concrete walls has been let to Peter Kiewit Sons Company of Omaha.

'Silo' and 'Crib'

Each silo will consist essentially of a deep concretelined hole with a structural steel "crib" inside.

The crib will be fitted with the elevator and ground support equipment required at a launching complex, and will contain a working platform for servicing the missile.

The silos near Lincoln and the other bases where the underground storage is being constructed will be of the most hardened variety, designed to keep an Atlas safe from even a near miss.

Offutt Has 'Coffin'

It will differ from the soft configuration at Omaha's Offutt Air Force Base, where the missiles will be kept horizontal in a reinforced concrete coffin from which they will be raised automatically for firing.

In the Omaha area, the missiles will be grouped by threes for a total of nine, compared to the nine senarate missiles in their silos around the Lincoln base.

In addition to Lincoln, the new, hardened underground silos will be built at Air Force bases at Salina, Kans., Abilene, Tex.; Altus, Okla.; Roswell, N. M., and Plattsburgh, N. Y.

Cost Doubled

Officials estimated it will cost 44 million dollars to build nine underground silos for a squadron. That compares with 22 million dollars for the Omaha area launchers.

"The Atlas weapons system in hardened sites will enhance survivability and make ours a truly deterrent force," the Air Force said.

Generally, the Air Force is allotting 13 to 15 months for construction of silos for a squadron, another 10 months, part of it overlapping, for installation of equipment and system checks, and three months to make it operational.

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBR. 9 February 1960

New Nebraska Silos

MISCILES FOR LINCOLN-There two cutaway drawings released by the Air Force Ball tie Missile Division at Los Angeles disclose the type of underground Atlas missile system to be built in the Lincoln-southeast Nebraska area, beginning this summer. Mointenance, checkout and fucling operations are carried out underground in the silo containing the protected missile in the left drawing. The right illustration shows the Atlan raised and its rocket ingines ignited. Countdown of the big missile is conlucted in spherical underground blockhouse at the right.

ktlas Hardening Plans for Lincoln / rea Told

. . . To Require Elevators

San Diego, Calif. (P)-A full-scale mockup of the underind Atlas missile launching facilities to be constructed ie Lincoln-southeast Nebraska area is being built here at vair-Astronautics.

The Air Force said the mockup is east of the Atlas factor on Kearney Mesa near he ...

In operation, massive concrete doors covering the holes would be opened and the missiles would be raised to the surface by elevators before firing.

Maj. Gen. O. J. Ritland, commander of the Air Force's Ballistic Missile Division, last week disclosed plans for an Atlas sile at Vandenberg Air Force Base, Calif., for test and check-out purposes.

13 Squadrons

Later, he said, underground facilities for the missile will be built at other operational sites. The Air Force has aunounced 13 Atlas squadrons to date.

They include one each near Offutt Air Force Base and Lincoln Air Force Base in Nebraska.

Earlier plans provided for the Atlas to be maintained horizontally in some instances in reinforced concrete "coffins." At some sites the coffinlike structures were to be placed below ground level, with only the roof exposed

The Offutt-Omaha complex. now under construction, falls in this category. Ccl. Aifred Vogler, Air Force Deputy Rigional Civil Engineer, said there have been no changes in the plans for the Offutt site.

The silo arrangement 7:10vides for storage of the missiles in deep, concrete-lined holes containing working platforms for serving the vertical ICBMs.

Shortly before the Christmas holidays, plans for the Lincoln site were pulled back for revision.

Col. Vogler said Tuesday his office is unable to comment further on Lincoln construction plans at this time.

OMAHA DISTRICT WORLD HERALD, OMAHA, NEER. 16 February 1960

Atlas Project Bids Sought

OMAHA DISTRICT LINCOLN STAR, LINCOLN, NEBRASKA 11 February 1960

Engineers Call Today on Lincoln Work

World-Herald Washington Bureau, 1220-22 National Press Building. Representative Phil Weaver said Monday Army Engineers will call Tuesday for bids on construction of nine underground sites that will house Atlas intercontinental ballistic missiles surrounding

the Lincoln Air Force Base. He said the bids will be receivable March 1, opened April 11, and that the nine hardened silos will be completed in the early summer of

1961. The First District Congress man reported the silos will be 175 feet deep and 50 feet in diameter.

Launching-control buildings will be 30 feet deep, 40 feet in diameter and built of reinforced concrete.

Mr. Weaver said he was informed construction of the silos will cost between 25 million and 30 million dollars and other equipment-to be bought separately-will cost another nine million dollars.

The cost of electronic equipment, not specified, is likely to bring the total price of the Lincoln construction, excluding the missiles themselves, to the 44-million-dollar figure used a week ago by officials of the Air Force's Ballistic Missile Center in Los Angeles.

OMAHA DISTRICT WORLD HERALD, OMAHA, NEBR. 12 February 1960

Air Conditioning for Bases in Bids

Fort Worth, Tex. (UPI)-Bids for heating, air conditioning and ventilation atseve Air Force Atlas missile bases around the nation have been opened by the Corps. of Engineers.

The bids total \$1,773;721. The bids opened were for projects at Lincoln AFB, Neb.; Schilling AFB, Kans.; Vandenberg AFB, Cal.; Walker AFB, Roswell, N. M.; Altus AFB, Okla.; Plattsburgh AFB, Plattsburgh, N. Y., and Dyess AFB, near Abilene, Tex.

Award Soon On Lincoln Atlas Contract

Omaha (UPI) - A major contract for construction of the Atlas missile project in the Lincoln vicinity is expected to be awarded within 60 days, according to Col. James S. Caples. Air Force regional civil engineer here.

At the same time, Caples confirmed that the Lincoln ICEM project will be the "silo type," that is, complete-ly buried underground for maximum protection in the event of an enemy attack.

The Lincoln complex will be composed of nine launchers, each on a separate site. The Omaha district office of the Corps of Engineers will be in charge of construction.

After the construction has been completed. Strategic Air Command will take over the responsibility of maintaining the operational readiness of the facilities.

; will some ment,

BR.

itract quipforce lains

ntrol t: a em: radding ngi-

> ich at self as.

> > falismtill

> > > te-Wid, d.

OMAHA DISTI T LINCOLN STAR, LINCO, , MEBR. 16 Februar 1960

nsoln Arga las Siies

CONTIL OT DIDS CALLED MAR. I

ontract bids will be called rch 1 for an estimated million to \$30 million in nstruction for 9 Atlast in-countal ballistic mis-per sites and con-l control of the ballistic misn Air Force Base.

The U.S. Army Corps of gineers will announce the l cail Tuesday, Rep. Phil eaver reported Monday.

Contracts will be opened pril 11.

Work must be completed the early summer of 1961, obably in late June, acrding to Weaver.

Estimated cost of the conruction work had earlier cen tabbed at between \$20

illion and \$25 million. Hardening Ups Cost The cost boost resulted om hardening of the Linoln sites, that is placing round. Col. D. G. Hamtond, Omaha Corps of Engieers district chief, said. Each of the 9 sites will ensist o. a 175-foot deep

ilo some 50 feet in diameter, Veaver said.

rol er 30 feet deep and 0 feet in diameter.

The March contract call also includes utility work. road construction and refusing systems.

9 Million Coar In addition, the Corps will purchase a in tall some \$9 millio in equipment, Weaver sain Not included in the contract call is laur to troi equip-ment which the Air Force will install Each of the tes contains a launcher . . Lauch control center; a till system; a fuel and i language system; process v le loads, grading and according to the Or corps of Engineers off Among transitions which will later a enstructed at Base itself missile as-facility, a include sembly enerating faoxygen disliquid o cility, : posal una and various communica! lilities. Lincoln element sites will be loca horchester, Beatrice, ar d. City, Sew-ar d. eh, Elmwood, York, and Brainard. Total and of the complex has been estimated at nearly \$128 m

OMAHA DISTRICT

THE LI WOLN STAR, LINCOLN, NEBRASKA 24 February 1960

Launching Site Land Acquisition Under Way

Some 219.85 acres of land 18.68 acres and .15 acres from R. H. Stephens, and 6.21 acres from Mandus. Arthur and Alice Sandall. coln area is now being acquired by the federal government for Atlas intercontinental ballistics missile launching sites.

The government will pay between \$60 00 4 \$80,000 to acquire to land, according to Col. 1 wid ammond, Omaha disti to meer for the Army Common ingineers.

The real es ie asactions include land see ts necessary for water and spe lines, and excess roads this land will be on low tern lease to the government.

Land which ill used for

Exact site ac ges and farms involv

orth of Beatrier from Fred Harto from Paul C. He 2.89 acres 3.13 acres

Seward Cosmiles northwest and 1.84 acres from 1.07 acres, both from Buller County, northeast of Brain 6.25 acres from E. 23 acres from E. 10rk County, 5 ximately 5 8.95 acres owned by acres and G. Keller, tely 4 miles smith. and st of York:

Artiar and Alice Sandall.

Gare County, approximately 4 miles southwest of Beatrice; 16.14 acres and .07 acres from Paul G. Claassen; 1.52 acres from Frank C. Summers; 1.52 acres and .64 acres from Louis W. Fell-wock; 2 acres from Clifford J. Meyer, and 6.12 acres from Don A. and Paul G. Claassen.

—Otoe County, approximately 5 miles west of Nebraska City: 13.27 acres from Louise Roderbrock and Ora Beausang; 3.79 acres from Ora Beausang, and 6.13 acres from Edward J. W. Reese.

eres from Edward J. W. Reese.

—Cass County, approximately 3 miles west of Elinwood; 19.32 acres, 2.23 acres and .55 acres, all from Minnic Hess; 3.10 acres and 1.52 acres from Edda M. Leuz, .93 acres from James and Lena Rumaly; .57 acres from Robert and Hazel Kunz, and .07 acre from Emily J. and Donald J. Gonzales.

—Johnson County, approximately 4 miles north of Tecumsch; 5.37 acres and .06 acres from Merle R. Riensche; 11.19 acres, 2.27 acres and 1.89 acres, all from Leonard O. Kamen, and .03 acres from Philip F. Nestor Jr., and George Leuby.

OMAHA DISTRICT
EVENING WORLD-HERALD, OMAHA, NEBRASKA
2 March 1960

Atlas-Fueling Contract Let

Lincoln 1 of 6 Bases Covered in Letting

Fort Worth, Tex. (UPI)—A \$10,888,176 contract for building and installing propellant-loading systems at Atlas missile bases in the Lincoln, Meb., area and six other locations was awarded here Tuesday by Army Engineers.

The contract went to Paul Hardeman, Inc., of Stanton, Cal., which bid almost 10 million dollars below the Government estimate.

Work will begin in September. Completion is scheduled in October, 1961.

The work will involve 55 underground silo-type systems to fuel missiles at the neven sites. Nine systems will be installed at each of the bases except Vandenberg Air Force Base, Cal., which gets

The other sites are Altus, Okla., AFB; Dyess AFB, Abilene, Tex.; Walker AFB, New Mexico; Schilling AFB, Salina, Kans., and Plattsburgh AFB, New York.

Nebraska's other missile base—Offutt, with launcher at Mead, Arlington and Missouri Valley—will have its groundsupport equipment and technical maintenance facilities constructed by the H. K. Ferguson Co. of Cleveland.

Omaha Personnel

Convair Astronautics, producer of the Atlas intercontinental ballistic missile, this week awarded the \$5 million contract to the Cleveland firm.

William L. Young, Convair operations manager, said Fer-

Lincoln Atlas Bids Called For

Opening Set For Apr. 11

By Bess Jenkins

Dozens of the nation's top construction farms received notice Wednesday that bids for Lincoln-southeast Nebraska's Atlas intercontinental ballistic missile base are being sought.

The Omaha District office, of the Army Engineers, responsible for the basic construction of the 9 launcher site "silo" type Atlas system, said bids will be opened at 2 p.m. Apr. 11 in Pershing Auditorium.

Construction must begin within 10 days of the contract awarding. The Engineers-supervise d construction job must be completed by May 25, 1961. The Air Force then moves in its contractor to install the electronic components of the missile system.

\$70 Million

Complete cost of the Atlast program to the "ready-with-missiles-for-firing" status will be around \$70 million. The Engineers' construction portion is estimated to cost from \$25 to \$30 million.

More than \$1.5 million will be spent to build and install propellant loading systems at the 9 Lincoln area Atlas launcher sites.

Contract Awarded

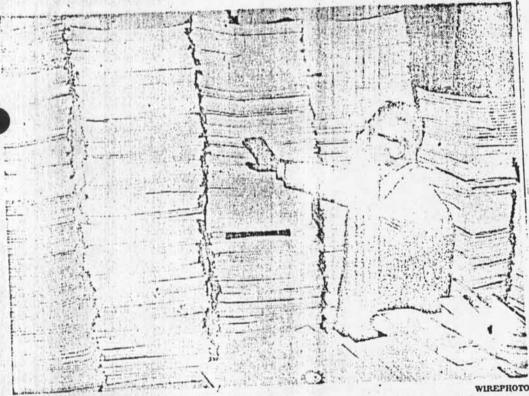
A \$10.868,178 contract was awarded by the U.S. Army Engineers to Paul Hardeman. Inc., of Stanton, Calif., at a Ft. Worth, Tex., bid opening to provide this construction work for the Lincoln and 6 other intercontinental ballistic missile base systems.

The Hardeman firm, bidding almost \$10 million below the government estimate of the 7-missile base installation job, will begin its job in Sep-

tember.

OMAHA DISTRICT
COLN EVENING JOURNAL AND NEBRASKA STATE JOURNAL, LINCOLN, NEBRASKA
3 March 1960

4 Tons of Atlas Plans



BIG PLANS FOR BIG OFFENSE—Behind the construction of the Lincoln area's 9-launcher site Atlas missile base are these 4 tons of paper. Col. John J. Haley, Deputy Omaha District Army Engineers, looks over the 750 sets of plans and specifi-

cations before they were mailed out to some 600 contractors and suppliers withinvitations to submit bids on the Lincoln missile complex. The bids are to be opened at 2 p.m. Apr. 12 in Lincoln.

LINCOLN EVENING JOURNAL, LINCOLN, NE OMAHA DISTRICT 11 March 1960

crats, has been strong for a setup of U.S. defenses to Diamned Here May Rise 3. 10 Phillips 5

Washington - Strength of the Atlas missile squad-By Cordon White

may be boosted by as much

ron to be based at Lincoln

ference that he had been "briefed" on a number of ed at a Pentagon press convealed here by Defense Secretary Gates indicat-Air Force proposals to augment presently-planned Allas squadrons were re-Secretary Thomas Gates. as one third.

crease U.S. missile forces in the next two years. No specificacost figures were given. Contractors Warned

"additional units may be constructed for the be opened Apr. 12. One of the 10 missiles in plexes. Lincoln bids are to planned 9-silo launch comvision for planned under-ground Atlas bases, includ-ing those at Lincoln and Roswell, N.M., warn pros-Engineering specifica-tions drawn by the Air Force Ballistic Missiles Dipective contractors suggestions by the Air

ICBMS, all of them ready to slire, a 50% increase in U.S. retaliatory capabilifor each squadron might boost total strengths to 15 present squadrons will be a spare. Increased numbers

ing no indication as to the programs," Gates said, givprobable Defense Dept. decision on the proposed mis-We constantly review our require that equipment for all launchers be interchangeable, to facilitate ad-The enginecring designs dition of other sites.

'Gap' Expected Present U.S. planning conceded a nominal "mis-

ren AFB, Wyo.

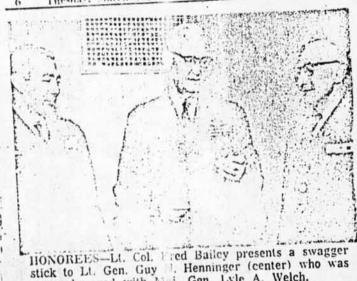
Congressional pressure, particularly from Demosile increase.

ponderance in manned bombers. sile gap" in 1962, to be off-set by believed U.S. pre-

comes into the inventory... After 1962, large numbers of Minuteman ICBMS are the exception of early 3-mis-sile units at Vandenberg AFB, California, and Warto 24 months. Present Atlas and Titan squadrons will have 10 missiles each, with The augmented Atlas. erational over the next 18 prevent a missile gap vis-avis the Soviet Union in 1962. squadrons would become op-

dispersed, hardened sites, U.S. unattractive for a fortential enemy when fit will make an attack on the tional. It is believed that the bile launchers or in widely Minuteman, based on moscheduled to become opera-

Lincoln Evening Journal and Nebraska State Journal Tuesday, March 15, 1960-P.M.



CHAHA DISTRICT LINCOLN EVENING JOURNAL, LINCOLN, NEBRASKA 1/ March 1960

honored with Mij. Gen. Lyle A. Welch.

Atlas Missile B Meet Set

O ha (A)-A pre-bid confere a for contractors interste in the Lincoln area Atas ssile base job will be Ron Hotel here, Army Engin s said. C ractors will be invited

to k any questions con-cer of the job. Bids on the pro t will be opened at 2 p.r. Apr. 12 at Pershing Audit um in Lincoln.

display at the confer-here will be a small enc of a hardened Atlas laur her site, the type schedule for the Lincoln area.

Atlas Sites Stress CD

Significant to Lincoln Area

Location of Atlas missile launching sites in the Lincoln! area increases the importance, of adequate civil defense measures in this area, according to Robert F. Waggoner, Region 6 Civil Defense director.

Speaking at a special lunchcon Tuesday, Waggoner of Denver, said Civil Defense is of particular significance to the people of Lincoln "because of the nature of the Omaha-Lincoln complex itself." and because of radioactive fallout from which no area of the United States can consider itself safe.

"I'm not divulging any secrets when I say that a great percentage of retaliatory missiles will be housed in this area." Waggoner said.

"This increases the importance of building a non-military defense capability in the Lincoln area, he added. The armed forces commit-

tee of the Lincoln Chamber of Commerce sponsored the Rotary luncheon and paid tribute to Lt. Gen. Guy N. Henninger on his retirement from the Nebraska National Guard. Special recognition was also given Maj. Gen. Lyle A. Welch on his appointment to succeed Gen. Henninger.

12 Wednesday with 1 1960-P.M. Lincoln Evening Jour

Lincoln on List, May Get More Missiles

Washington (UF) — The stead of 9 and 13 missiles in-Pentagon is studying the ica- stead of 10. All 6 squadrons sibility of ah 18 me ase would have their launchers in in the planned for of this underground, concrete-lined and Titan integrated silos. ballistic missiles.

expansion, the last 6 of the now planned 13 sale ons would have 12 la her in-

The 6 squadrons are being Under the plan for Atlas built at Schilling AFB, Salina, Kan.; Lincoln, AFB, Neb.; Plattsburgh AFB, N.Y.;

Altus AFB, Okla.; Dyess AFB, Abilene, Tex., and Walker AFB, Roswell, N.M. The plan for Titans calls

for a similar increase in launchers and missiles for each of the last 8 of 14 Titan squadrons now planned. They likewise would be based

underground.

Defense Secretary Thomas Gates indicated that one of the considerations that will guide his judgment is whether increasing the size of squadrons would add as much to the nation's striking force as other weapons sys-

They have discovered that they could operate squadrons with 12 missile launchers as effectively as 9, without much increase in unit personnel or supporting equipment.

If approved by the administration and put up to Congress, plans now being examined might call for extra appropriations estimated to total more than \$400 million.

The total increase in missiles would be 42, raising the force of hydrogen bomb-carrying rockets from the 270 now planned to 312 by some time in 1963. The number of planned missile launchers, in underground sites, would be increased from 200 to 231.

OMAHA DISTRICT EVENING WORLD-HERALD, OMAHA, NEI SK 17 March 1960

> Missile Base Meeting for Builders Is Friday

Contractors interested in bidding on the Atlas missile base project in the Lincoln area have been invited to a pre-bid conference Friday morning at the Rome Hotel.

They will have an opport.

tunity to ask questions all the the job. A model of the t of launcher site scheenled r the area will be shown.

Bids will be opened at 2 p. m. April 12 at the Pershing Auditorium in Lincoln.

OMARIA DISTRICT EVELLER JOHN AL, LINCOLN, MLERASKA 21 March 1960

Lincoln Launcher Pad Site Protection Setup Complex

By Gordon White

em is complex?

No simpler and certainly ot left to luck is the netites of Lincoln area's under- May 12 next year. round Atlas system.

Interested bidder represenand when the protective pat- all times. ern was among details outined at a pre-bid conference onducted by Omaha District

Army Engineers.

and specifications show:

expected to take about a year. most of that time be nothing classified or secret on the sites. Air Force personnel may move in secret launch control equipment early next year as construction nears completion.

Lincoln's cratic and rugged winter weather will be a hazard the contractors will have to assume in their bidding; the government will not be protect personnel and the responsible for added costs. missile from interior mishap. "Complete weather records and reports may be obtained from the U.S. Weather Bu-reau at Lincoln," the contractors are advised.

Site materials will be shipped to railhead points at Eagle, Dunbar, Tecumseh, Firth, Beatrice, Wilber, York, Seward and Brainard for the 9 individual sites.

set by the Labor Dept. at "prevailing levels for the Lincoln area, generally along union

scales.

Security Guards curity guards will be rechiefly for critical At each site, including propellant loading systems; diesel generators; air conditioning equipment; electrical con.rol equipment;

pump and compressors; con-Washington - So you think trol instruments; glass enclosonstruction of an Atlas sys- ures; silo doors and launch platform mechanisms.

Installation of final secret launching gear will begin at work of protection scheduled site number one on Mar. 17, o guard the 9 launcher pad 1961, and at site number 9

The entire area of each launch pad will be floodlightatives learned this first ed for security protection at

TV Monitors

Chain-link security fences will have electrically operated gates. Each entrance gate Six hefty volumes of plans will be protected by a television camera monitor.

Red, green and amber Heavy construction work is warning lights visible at expected to take about a year. a half mile and powerful horns audible at a half-mile range will be used to warn personnel of imminent launch-

> Light-sensing devices will be installed at each site to detect either internal explosions or enemy the mo-nuclear detonations.

Glass Enclosur

Stout, glass enclosures will

Massive concrete dors will cover the silo itself to be opened only seconds before the elevators ICBM for firing.

Each site will rise only a few feet above the surrounding farmland, with fences, guardhouses and a water cooling tower the only surface structures.

The silo itself will be 175 Minimum wage rates are feet deep and 56 in diameter.

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 19 March 1960

Atlas Job Reeds Speed, Quality

... HAMMOND TELLS BIDDERS

ive bidders on the Lincoln configuration underground si-Air Force Base intercontin- lo complexes will be located ehtal ballistic missile launch facilities were told Friday the government would demand a safe job combining quality construction and on-time completion.

Col. D. G. Hammond, district engineer for the Omaha District of the Army Corps of Engineers, conducted the pie bid conference on the project which will cost an estimated 10 million dollars.

The bid opening will be held April 12 at 2 p.m. at Pershing Memorial Auditoriun in Lincoln.

. Nine missile launching sites

Omaha (UPI) - Prospect- incorporating the new hard

'Urgency Factor'

Hammond stressed the "allimportant urgency lactor." He told the contractors "you can and must meet the com-pletion dates. The Lincoln Atlas ICBM job, like others, is a main cog in the national defense program."

He warned that the "schedule is tight and it will require unusual measures on your part to protect the work against any conditions that might delay construction."

He added that, despite the emphasis on speed, the government would accept nothing short of quality construction as described in the specifications.

Other Dates

Hammond also pointed out other forthcoming dates in connection with the extensive missile construction in Nebraska.

ile said the Corps would advertise for bids March 22 for construction of a liquid oxygen plant and May 17 for construction of re-entry vehicle facilities at the Lincoln Air Force Pase.

Bids will be opened March 31 for construction of dorms and a dining hall to be built at Offutt Air Force Base

south of Omaha.

Mach of the 4 launch sales attached to the Lincoln base will have an underground, launch control center, an underground launch silo, ptilities systems, roads, gradies and handling systems, process vessels and fencing.

OMAHA DISTRICT EVENING WORLD-HERALD, OMAHA, NEERASKA 26 March 1960

A. F. to Add 3 Lincoln Pads

9 Already Scheduled; 'Hard' Silos Seen

World-Herald Washington Bureau, 1220-22 National Press Building.
The Air Force announced Friday it will add three Atlas missile launching pads to the

nine already scheduled for the Lincoln Air Force Base.

The Defense Depart mentialso plans to speed construction of the Midas detection satellite and a speedup in Ballistic Missile Early Warning System radars in Alaska and Northern England.

The Air Force said it planned to increase the number of Atlases previously programmed for launching sites in 1962.

· Cost 500 Million

This increase, it added, would be accompanied by an increase in the number of missiles and launching pads at certain Atlas bases. It identified one of the bases as Lincoln.

Program revisions will cost about 500 million dollars in the next 15 months, it is estimated.

Nothing was said by the Air Force about Offutt Air Force Base at Omaha, where nine Atlas missiles are to be located.

Kept in Silos

The decision with regard to Lincoln, however, appeared to be in line with reports that the number of Atlas missiles will be increased at several bases where missiles will be kept in underground silos.

These "hardened" silos, which provide added protection in event of enemy attack, will be built around the

Lincoln base.

They are not planned for Omaha.

Actually, there probably will be 13 Atlas missiles at Lincoln, since plans provide for a spare at launching sites.

Atlas Ready on Schedule

Washington (AP)—Atlas intercontinental missiles will be operational at Warren Air Force Base, Cheyenne, Wyo., next month, as scheduled, the Air Force said Friday.

Three More Atlas Pads Might Be East of Lincoln

Survey Made When 9 Original Sites Chosen for Complex

Special to The Journal Washington-Three new launching pads proposed for the Lincoln Atlas missile complex would probably be located to the east of Lincoln.

Sites have not been announced, but it was understood the Air Force was "seriously investigating" 3 sites east of the

capital city.

A survey of the area was. made when the other 9 launching sites were under study, and it is not expected the Air Force will resurvey the area:

The 3 additional sites were announced by the Air Force through Rep. Phil Weaver (R-1st), bringing the total number of launching, pads in the Lincoln area to 12 and the number of missiles to 13.

An additional 100 to 150 men would be stationed at Lin-

The Air Force decision to enlarge the complex must be approved by the Armed Services Committee and the Appropriations Committee of both the House of Representatives and the Senate.

Originally, Lincoln was scheduled for nine launching sites and 10 missiles with 700 officers and men.

The Air Force said it would cut-back its Bomarc Longrange anti-aircraft missile program and make substantial changes in the air defense and missile programs.

The Lincoln Atlas additions would be part of an over-all program to increase the Air Force's deterrent force and air defense missile detection system, Weaver said.



Silo type Atlas installation

Washington sources didn't know how the increase would effect the contract bidding which is now under way for the nine launching pads. But it was expected contracts would be extended to cover the additional projects.

In addition to the increased Atlas program the Air Force announced further increases in the:

-Midas project, detecting intercontinental ballistic missile with a reconnaissance satellite system.

-Speedup in land-based ballistic missile early warning system program.

The USAF said these would be financed chiefly through reduction in the Bomarc program and cancelation of the proposed building of SAGE combat control centers for air defense.

An effective SAGE system for directing the Bomarc missiles and interceptor planes will be completed, however, the Air Force said.

SAGE is the Fentagon term for semi-automatic ground environment-an electronic missile detection system.

OMAHA DISTRICT LINCOLN EVENING JOURNAL, LINCOLN, NEBRASIA 30 March 1960

Atlas Squadrons Estimated To Cost \$347,000,000 Each

Force revealed.

An average of \$194,0 0,000 costs for each of the 13 \$51,000,000 to the cost of each planned squadrons in the augmented squadron, if re-Atlas force.

ICBM squadrons planned for other equipment will repre- approval. Lincoln and 12 other air force sent an investment of \$153,bases will cost an estimated Force officials told the House \$347,000,000 each, the Air defense appropriations subcommittee.

Boosts of one-t h i r d in will represent development squadron strengths could add cent Air Force proposals win

Construction, missles and almost certain Congressional

OMAHA DISTRICT

LINCOLN EVENING JOURNAL AND MEBRASKA STATE JOURNAL, LINCOLN, III.

7 April 1960. Contractors Told Atlas

OMAHA DISTRICT EVENING WORLD-HERALD, OMAHA, NEBRASKA 12 April 1960

12 Missiles for Lincoln?

Bid Change Indicates Base May Expand

Enlargement of the Lincoln Atlas installation from nine to 12 missiles was indicated Tuesday as Army Engineere prepared to open construction bids on the multimillion-dollar project.

A change in the bidding specifications requires that contractors seeking to build the nine missile job must, if so ordered, build facilities for three additional missiles.

Bidding is on a per-missile basis. The unit price for the original nine - missile job would hold for the additional missile launchers.

Secretary of Defense Gates recently announced that some of the nation's missile installations would be enlarged. No specific order increasing the size of the Lincoln installation has been made, however.

Army Engineers said the enlargement option would permit additional missile construction to get under way speedily and would insure that the additional missile facilities are identical to the original nine.

Bids on the Lincoln job which will consist of nin missiles housed completel below ground on scatte ad in dividual sites, were to b opened this afternoon Lin coln.

Job Here Has Grown

Contracting firms whose bids to construct the Lincoln Atlas missile base will be opened Tuesday in Lincoln must agree to build 3 additional launcher site pads.

The Omaha District office of the Army Engineers sent out supplemental notices to prospective bidders this week setting

forth this provision.

The addendum states the successful bidder, if ordered cellation. to construct 3 additional sites, will be paid for these at the original 9 launchers.

Lincoln's underground Atlas system of intercontinental ballistic missiles is one of several scheduled to receive additional launchers and missiles as a result of the Air Force's coln Atlas area.

Bomarc missile program can-

Real estate and engineering representatives of the Omaha rate received for each of the District Army Engineers are members of the Air Force site team out now to study feasible locations for the 3 new launcher pads, It is understood this team is making a complete circle of the Lin-

> Col. Vernon Hastings, as chief of the Air Force Ballistic Missile Division for the Offut and Lincoln Atlas programs, said a 5-member team of Air Force su-veillance personnel is set up to join the. supervisory Army Engineers on the Lincoin Atlas project.

Construction must begin within 10 days after the contract awarding by the Engineers.

The AF surveillance group at Lincoln will increase as construction progresses.

"It will hit a peak of 55 to 60 Air Force men, about the number we now have at the Offuit base." Hastings said.

The Offutt sites at Mead, Arlington and Missouri Valley are 90% completed inso-far as Army Engineers con-struction is concerned, according to Col. Hastings.

The sche aled May 1 completion dela ed by bad weather, now is set for mid-June.

The missile chief said it will be another year before the Air Force-supervised equipment is completely installe by Conveir Astronauties and associate contrac-

He said there are 813 people new en the scene employed by the Air Force contracting firms and the peak; of 1400 will be reached in July.

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 13 April 1960

\$17 Million Atlas Site Bid Made

...LINCOLN AREA

Western Contracting Corp. of Sioux City, Iowa, submitted the apparent low bid of \$17,--400,000 Tuesday on basic construction of the Lincoln Atlas

rcontinental ballistic mis-

sile bases.

The Army Engineer estimate on the 9 launcher site missile system was \$18,398,-377.

Other bidders included Gus K. Newberg, Chicago, \$18,457,000; S. J. Groves Co., Minneapolis, \$21,260,000; Peter Klewit Sous Co., Omaha, \$18,139,352; Rayn,ond International, New York, and Allied Firms, \$17,947,000; Potashnick Construction, Inc., and Associates, Cape Girardeau, Mo., \$20,957,400; Morrison-Knudsen, Los Angeles and Allied Firms, \$18,297,000; George A. Fuller, Los Angeles, \$18,646,800.

The bids covered only the work under supervision of the Army Engineers. They do not cover the cost of the missiles nor de electronic equipment to | installed by contractors to t U.S. Air Force.

E construction is expee to be nearing completies by June of next year whe installation of electronic equi ment is scirculed to begin. Operational readiness is ammed for early in 1962. pre

THE SIOUX CITY LEGITLAL, SIOUX CITY, IOWA

MAHA DISTRICT

THE DAILY PLAINSMAN, URON, SOUTH DAKOTA
13 April 1960

Sions City Firm Is Inw Bidder On

Mic le Base

Contra ing Corporation of Sioux City, and as the apparent low bidder are a on construction of the number of the complex around Lincoln.

The source by firm submitted a bid of \$1 10,000.

The wer eight bidders. The government and estimated the work suid est \$18,398,377.

The firm had never been awar is a stract of this type but do considerable work on fee also criment civil projects, is duding work on Oahe and the lass Bend dams on the Missouri River.

The specifications for the work were contained in three volumes of about 600 pages.

The contract is expected to be awarded in 10 days to two weeks. Construction is scheduled to begin about 10 days later. The contract calls for completion of the work in May of next year after which the Air Force will move in its technical equipment.

Location of the sites: two in Gage County near Beatrice; one in Seward County, five miles northwest of Seward: one in Butler County near Brainard; one in Otoe County near Nebraska City; one in Cass County near Elmwood: one in Johnson County north of Tecumseh; one in Saline County near Wilber; one in York County, three miles west of York.

There has been some discussion that three more sites may be added.

Firm Here Low Bidder on Huge Job

Western to Build Missile Base at Lincoln

LINCOLN (A) — Western Contracting corporation, of Sioux City, submitted the apparent low bid of \$17,400,000 Tuesday on basic construction of the Lincoln Atlas intercontinental ballistic missile base.

The army engineer estimate on the nine-launcher site misile system was \$18,-398,377.

If Western's bid is accepted, it will mark the Iowa firm's first entry into missile base construction, Although Western has bid previously on misile bases, it is known principally for work on Misouri basin projects.

Other bidders included Gus K. Newberg, Chicago, \$18,467,000; S. J. Groves Co., Minneapolis, \$21,260,000; Peter Kiewitt Sons Co., Omaha, \$18,139,352; Raymond International, New. York, and Allied Firms, \$17,947,000; Potashnick Construction, Inc., and Associates, of Cape Girardeau, Mo., \$20,957,400; Morrison - Knudsen, Los Angeles and Allied Firms, \$18,297,000; George A. Fuller, Los Angeles, \$18,646,800.

The bids covered only the work under supervision of the army engineers. They do not cover the cost of the missiles nor the electronic equipment to be installed by contractors to the United States airforce.

Basin construction is expected to be nearing completion by June of next year when installation of electronic equipment is scheduled to begin. Operational readiness is programmed for early in 1961.

OMAHA DISTRICT THE LINCOLM STAR, LILCOLA, HERASKA 16 April 1940

AF James Addisional Atlas Sites

... Near Lincoln

Washing on (2)— Locations of 3 addit mal launching sites for the Lincoln, Neb., Atlas missile base have been selected by the Air Force, Sen. Carl T. Cartis (R-Neb) said Friday.

The ble or! ally was scheduled to have 9 launching sites but plans to increase this to it were announced last month.

Curtis aid he was advised by the Arr Force that the 3 additional sites would be spotted these general locations:

Cass-Otoe

—near Imwood in Cass County: miles east of Lincoln; ne Avoca in Cass County 30 miles east of Lincoln, and near Palmyra in Otoe County 23 miles southeast of Ficoln.

Each of the 12 launching sites is scheduled to be equipped with an Atlas missile.

Curtis aid Army Engineers at Omaha will award a \$17,-400,000 contract to Western Contracting Corp., Sloux City, Iowa, for construction at the first 9 siles.

Missile Pads in Cass, Otoe

3 More Atlas Sites - in Lincoln Complex

World-Herald Washington Eureau, 1220-22 National Press Building.

The Air Force announced Friday the site of three additional Atlas missile launching pads for the Lincoln Air Force Base.

Naming of the actual sites follows by three weeks the announcement that the Lincoln base would have 12 pads rather than the nine scheduled originally.

Here are the locations of the three additional ones: —Site No. 10 in Cass County 30 miles east of Lincoln, nearest community, Elmwood.

—Site No. 11, in Cass County, 39 miles east of Lincoln, nearest community, Avoca:

—Site No. 12, in Otoe County, 25 miles southeast of Lincoln, nearest community Palmyra.

The Western Contracting Corporation of Sioux City was the low bidder at \$17,-400,000 for construction of base sites for the first nine launching pads. A contract was to be awarded to the firm this afternoon.

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEHRASKA 19 April 1960

Engineers Lot Lincoln Atlas

Army Engineers in Omaha Monday announced award of a \$17,400,000 contract to Western Contracting Corp. of Sioux City for construction of 9 Atlas intercontinental ballistic missile launcher sites in the general vicinity of the Lin-coln Air Force Base.

The engineers said it was agreed that if 3 additional sites are added Western will build them at a comparable cost to the government. The Air Force has confirmed its intentions to build a total of 12 but there has been no official notice to Army Engineers here.

A company spokesman said a fleet of earth movers was being shipped, Monday from points in South Dakota, Michigan and Ohio to towns nearest the launching sites.

Completion of the contract is scheduled for May, 1961.

Work at each site involves construction of a reinforced concrete underground launch centrol center 30 feet deep and 40 feet in diameter, a missile silo 175 feet deep and 50 feet in diameter, fuels storage and handling systems and other facilities.

Crews Move to Atlas Jobs

Earth-Digging Fleet Is Lincoln-Bound

A fleet of earth-moving equipment was converging on the Lincoln vicinity Monday to begin construction of the Atlas missile installation.

A Western Contracting Corporation spokesman said at Sioux City that machinery was being shipped from jobs in South Dakota, Michigan and Ohio to begin the job. First work will start next

Monday, the spokesman said.

Western's announce ment coincided with one by Col. David G. Hammond, Omaha District chief of Army Engineers, that the Sioux City firm had been awarded the construction contract on its low bid of \$17,400,000.

The contract covers construction of nine missiles facilities. The Air Force has announced intention to enlarge the project to 12 missiles but there has been no official notice to Army Engineers.

The award ended a week of major bidding accomplishment for Army Engineers Missouri River Dams.

Dain in central Iowa and won than three million dollars for the first work o nBig Bend Dam, submitted the low bid f \$1,400,000 for Red Rock Dam in central Iowa and won a major construction job on Dulles International Airport at Washington, D. C.

LINCOLN STUDDAY JOURNAL AND STAR, LINCOLN, INDERASKA 24 April 1960

Paris Maria By 2. 28 Panis auton

Critics Rapper.

The success of the Atlas ICBM program has derive out decisions to carry it through despite carry 4059 factors, an Air Force spokesman said Thursday.

Co. Vernou L. Hustings of the Air 1 Halls o Missile Divis Stan undence at the L. Stros. Education of the Core and adomment of the Alas regram would be a fact to fort. He may be a few seconds

He no. 1, re web 5 consecutive Att a failure early in 1950.

"The a. d. v-maraing quarters and phase butto the creeks in full anding butto the anding butthe anding but the anding butthe anding but the anding butthe and the an

"The felty of such a course ... is now a story."

Col. Haster's period out that in companies in a cecess-ful Atlas of cion that the fall of it developes of the big made in a cedic carly that the fall of the cedic carly that the cedic carly that the cedic carly that the cedic carly that the cedic carbonates in 6 to certain a cedic carbonates. The second proven range is the cedic carbonates of the cedic carbonates in 6 to cedic carbonates in 6

He see the proven range (6,500 moral miles) and accuracy within 2 miles) of Atlas enceeds early loads of 5,500 miles and accuracy

within a 1- 1- range.

Consider the selection of sexplained the selection of the selection of sexplained the selection of sexplained the selection of sexplained the selection of sexplained the sexplained to sexplain the sexplain to sexplain the sexplain to sexplain the sexplain to sexplain the sexpl

Al Dirgins of Convair Astro-

Leading Space, Missile Authorities Will Speak

Aerospace Education Meeting To Draw More Than 3,400

More than 2,000 University of Nebraska men and 1,300 intents of higher education in the Lincoln-Gmaha area are needed to attend the Lincoln aerospace education confermed Thursday afternoon and evening.

Three of the nation's leading authorities on space travel

missile development will --ak at Pershing Audito--

Or. Frink Sorenson, director of air education at the University, said this program is a more intense offering with a central theme than that held Saturday at the Lincoln Air Force Base.

The public is invited.

Those attending will see an exact duplicate of the first Mercury capsule, designed to carry man into outer space.

This is the first showing in the Lincom-Omaha area of the capsule.

The speakers are:

-Col. Version L. Hastings, USAF, who will speak on the development of the Atlas intercontinental ballistic missile at 3:10 p.m. Thursday;

-Al Higgins of Convair Astronautics, the expert responsible for the planning of all Nebraska Atlas bases, will speak at 4 p.m.;

—ā. A. Fitzgerald of Mc-Donnel Aircraft Corp., the makers of the nose cone and capsule, will speak at 8 p.m.

The aerospace education conference is sponsored jointally by the University of Nubraska units of the ROTC, the Nebraska National Guard and the M.S. Dept. of Defense.

A specia alreraft, a C-119, will fly the apsule to Lincoln Wednesday afternoon. The capsule will be on district beginning Thursday afternoon at 1 p.m.

CIAHA DISTRICT LINCOLN EVENING JOURNAL AND MEBRASHA SPAYE JOURNAL, LINCOLN, MEBRASHA 29 April 1960

Atlas Pad Start Made

Ground Broken.

Near Beatrice

Beatrice - What will be a 178 ft deep and 60 ft. circular silo under the ground was started near here in an official Atlas missile ground breaking ceremony.

The location was the Paul Claassen farm about 5 miles southwest of here, one of the sites of the 9 launcher pads in the intercontinental ballistic missile system.

As representatives of the Omaha District, Army Engineers, the Western Contracting Corp. of Sioux City, Ia., 1 successful contractors,

watched as twin engine scrapers began the first 35-foot excavation of the area.

Malcolm Schaller, Western's representative, said this first step will take about two weeks. A shaft-sinking operation to excavate the remaining 134 feet will take another 4 to 6 weeks.

By another 9 weeks, all 9 sites in the missile area encircling Lincoln will be under construction, Schaller said.

Employment peak on the missile construction will come by September when the number should reach 500 to 600, Schaller said. Construction must be completed by next May in order that electronic installation by Air Force contracting firms may begin.

Offutt's 3-site intercontinental ballistic missile system at Mead, Arlington and Missouri Valley, Ia., has passed this point now and is slated to get its first missile weapon next week.

Al Higgins, Convair Astronautics Division representative at Omaha, said the weapon wil! be flown into Offutt Air Force Base May 6.

CIAMA DISTRICT LINCOLN STAF, LINCOLN, MEBRASKA 30 April 1960

By Dean Frill

Southeast Nebra la Bareau control center. Ellis-Paul Classen's alfal-

Barely a dozen persons, most of them no smen and construction work is, stood in the rain Friday for what had been termed the official: ground-breakleg for all 9 sites. There were no bands, no speeches, no dibions to cut.

Still, there was a plementy to the occasion as Le er Henderson of LAF : - avic - d for the press the secondly to uetion of the long-ran mi c. As he briefly designed sie 96-foot weapon, the " my and engineer explained and ambi site would have on a pon-and one pre target.

"The Atlas will fired in anger," he

atit : 1. "There will be no 11C M. G. Schaller, Teel Or the Western Contr. 112 of Sioux City, Ia. 0 1 9 bases in the \$17.4 ton contract are to be com-11in a year, Constr DIT: O started Friday at land site, and 500 15 should be working locations within 8

Henderson, field HE for the Lincoln at 0.5 Omaha district, st los" housing the new less be 175 feet deep and 57 in diameter. A per sel sel nel about 50 feet in angland will connect to the launching helicopter since there are no

Force Base-wer the newly ard.

Force Base-wer the newly ard.

It is expected that LAFB ect engineer. The site is in and some heavy equipment personnel will man the bases, Gage County 314 miles east for building an weess road, perhaps being shuttled by of Ellis on Highway 136.

living quarters on the sites.

There is a possibility that Although the Army is in fa field didn't look much dif- 3 more sites will be scheduled charge of the steel and conferent than at his last cutting. in the area soon, according to crete work, the launchers will. The only hints last a mon-Schaller. Those already under be turned over to Air Force strous new "silo" was being contract (in the order work is personnel for electronic instarted-as one of Atlas in- to begin) are near Wilber, stallation. No specific time ter-continental by listic mis- Eagle, Nebraska City, Tecum-thus been announced for the sile sites around Lincoln Air seh, York, Seward and Brain- bases to become operational.

A rain-drenched alfalfa field and muddy earth-scraper made the dreary setting as the first work started near Ellis on the 9-site Atlas missile complex which will ring Lincoln. From left are machine operator Burl Martin, Maj. Lesic: Henderson and M. G. Schaller, engineer for Western Contracting Co. (Star Staff Photo)

Saturday, April 20, 1967 F.M. Lincoln Evening Journal and Nebraska State Journal

Missiles to Fire Only in Anger

To Adlas Practice in State'

By Dean Terrill

The Atlas will only be Tecumseh, York, Seward and in anger." Maj. Hender-Brainard.

Said. "There will be no All are scheduled for completions work comes preticing."

Pelose to home, even when a has worked in missiles out long-range missile, he them over to the Air Force asset that each launcher. when the grim implications (in a man's work comes pretty close to home, even when he has worked in missiles fince 1953 and done Army. duty throughout the world a lot longer.

There was a a clausness in i.i. L. L. Laderson's votes as ac all voice as he will newsmen to the Atlas in old is sice he visito overser-kes than 20 mest from where to then parted soldier games at Hol-lenberg, Non.

As an Army field engineer working out of Lincoln Air Force Base, he will be re-sponsible for construction at and 9 underground Atlas in-Stations around Lincoln. first for work to get under way, informal ground-breaking ceremonies for the entire complex were held there. | Der, Eagle, Nebraska City,

-pre-determined target.

and M. G. Schaller, er, explained that 175-foot besilos" will be dug for sen base included in the 17.4 million contract.

Construction also started at Cortland site, and 500 to men should be working . all the locations within 3

2 More Sites here is a possibility that ore sites will be scheduled the area soon, according Schaller. Others already fer contract (in the order k will begins are near

essed that each launcher for electronic installation. No have but one-and only date has been announced for them to become operational.

tern Contracting Co. en- base is even closer to home did not attend the groundbreaking. Paul Claassen, on whose land the installation will be one 312 miles east of Ellis on Highway 136, said he is "personally opposed to that kind of retailatory measure."

Not Very Happy "And even if I had no moral scruples about the base, I wouldn't be very happy about losing my best 18 acres," he continued.

Like other neighboring farmers to whom offers were made for easements, Cinassen did not accept them and is giving up the land through condemnation.

Then he added philosophically:

"Naturally we're concerned some about the danger also, but I guess we're no worse off than anybody else."

OMAHA DISTRICT EVENING WORLD-HERALD, OMAHA, HEBRASKA 30 April 1960

Story below. -World-Herald Total Rain-doused ceremony . . . Machine operator (left), 74 , or Henderson, Schaller.

Rains Drench Missile Site

Brief Ceremony Held for First Atlas So

By Tom Allan

Wor'd-tteraid Staff . Member Bearrice, Neb.-A class earth-moving machine bill deep into the rich soil of Nebras's farm five the south of here Friday.

Flashbuilds proved. The handful of officials and reporters dashed for cover from the cold, policy vain.

Thus was chronicled for history the part of consection of the aret are are as concrete Alles mission mass in Nabrasia.

175-Foot Silos

Other Atlas sites, at Mead and Arlington and Missouri Valley, Ia., are above ground. This was the first of nine sites of the Lincoln Air Force Base complex which will be hidden beneath the earth in concrete silos 175 feet—or more than half a block deep.

Huge gantries will raise the missiles above ground for fir-

"But they will only be fired in anger. There will be no practice," said Maj. Lester J. Henderson, United States Army Corps of Engineers field

engineer for the Lincoln area. Nine Sites

Malcolm Schaller, Western Contracting Corporation engineer, said the initial \$17,400,-000 contract calls for the digging and construction of the silos, roads and other preparatory work for nine sites.

Major Henderson said the contractor has been given a year to prepare the nine sites. Each includes about 14 acres

of land.

Then the Army Engineers will turn the sites over to the Air Force and Convair Astronautics Division of General Dynamics Corporation for installation of the multimilliondollar control and firing hardware.

Farmer Not Enthused

The rain-doused ceremony Friday was just a formality. The digging began Tuesday.

Absent from the ceremony was Paul G. Claassen, 43, the farmer on whose land missiles as well as corn will be planted.

Standing in his kitchen doorway listening to the roar of the carthinovers over the hill, he said:

"This form her been in the family for three generations." He folged a way smile.

"No. I'm not very enthused about it."

THE LECOLU

30 April ...

Marie Said Worthy Of National said. "All the goals of the 4 inch bullseye 15 times in completed in 5, Hastings

By Louis Fixed

Said. "All the goals of the disconnection of the property of national pride." Colonel Vernon L. Hastings, Chief of Atlas will travel at Speeds in excess of 23,000 feet per second, has a range of a mile," Hastings associated.

The Atlas will travel at speeds in excess of 23,000 feet per second, has a range of a mile," Hastings associated.

The U.S. has made tremendous advances in the missile field Office told nearly 1,500 and has an accuracy of appoint to the property of the Base Activation Convair Division of General Dynamics Corporation, told the group that there has been a tre-

Division at Off at Lincoln Field Office, told nearly 1,500 and has an accuracy of appears a hending the aerospace education conference.

"The Chas is a deterrent missile that is a reality," he missile that is a reality," he missile that is a reality," he missile that is a reality, hitting a develop the ICBM but it was more developed the ICB

Base Builders

Ailas Work Contractor Office Here

Army Engineers HQ at Air Base

Western Contracting Corp. of Sioux City. Ia., builders of Lincoln's Atlas missile system, opened central offices Monday at 501 So. 7th in Lincoln.

Mason Travis, civil engineer, who will be project manager, said field offices also will be set up at each of the 9 sites.

It will take a staff of about 35 to 59 employes at the Lincoln central office, plus a site superintendent, administration assistant, mechanical assistant and craft foreman at h of the field offices for stern to accomplish its 23, 1961, deadline for impletion of the 9 launcher

One Unit at Mead

Also on the job during this
f st-part construction of the
a ssile network will be Lt.
C. Hal Schroeder, area offifor the Omaha District
my Engineers, who are reonsible for the work done
Western. Their office is loed at Lincoln Air Force

the Air Force Ballistic Missis edivision, which has controlled electronic firms to install the missiles and their cial equipment, will have C. Vernon Hastings as their lison officer with Western and the Army Engineers. He loperate from Mead Ordinate Plant, Wahoo, where bistic division offices were up for the Offutt missile complex.

To de la company de la company

320 .731

be pers

Lincoln Atlas Complex. May Have 15 Sites Possibility of Again Expanding Is Under Study

Washington-The possibility Office, provides Western that even more Atlas ICBM must build 3 additional sites sites may be added to the Lin- at a cost of construction for coln missile complex has been one of the original 9 launcher raised here.

was asked to furnish figures on the total cost of increasing Allas squadrons from 9 misto 12.

The Lincoln base, originally to have 9 sites, already has ; been expanded to 12, with an additional missile in reserve. The request for figures on an increase to 15 is the first hint. that another boost may be: contemplated.

\$46 Million Average

The average cost of construction of the present 9-missile Atlas bases is \$46 million, the Defense Dept. said. It also indicated that adding 3 missiles sites to the 9-missile squadrons would not require additional appropriations.

Low bids received for the site construction were given; as the reason the initially proposed \$90 million appropriation would now not be needed.

Western Construction Corp. of Sioux City, Ia., whose bid was under \$18 million for the 9-site system, began the basic construction 'several weeks

Must Build 3 More

Their contract with Army Engineers, Omaha District'

pads. Omaha Army Engi-In secret testimony before neers still have not received the House Appropriations directives to proceed with the Committee, the Defense Dept. 3 additional sites, though lo-

siles to 15 and from 9 missiles of the first "hardened" Atlas site. The Lincoln Atlas sites will be built to withstand 100 pounds per square! inch of blast overpressure. This means that a missile could survive the explosion of a 10 megaton nuclear bomb dropped a mile and a half away.

OMAHA ISTRICT

INCOLN EVENING JOURNAL AND NEURAS A STATE JOURNAL, LINCOLN, NEBRASKA 13 May 1960

Liquid Oxygen Plant Work Set

Construction is scheduled to Air For . This will be manufacture of liquid nitrobegin within 10 days on a liq- a part of the area's Atlas uid oxygen plant at Lincoln missile ust

A \$3 ,80 contract was awarded to Cleveland Consolidate ion of the Clevela ric'Co., Jacksonville, or the on-base job.

It m completed by Oct. 15

The work lives construcgallon open y each and a 50 by 100 ft concrete block, insulated, me of siding structure.

The building will be used for the manuscturing of liquid oxy on a supplemental!

This facility and the tanks will be built on the north end of the base proper.

One tank will be used to store liquid oxygen and the other for liquid nitrogen. Both are for use in the Atlas missile system of 12 launcher bases and Atlas weapons scheduled in the Lincoln area.

CAUMA DISTRICT

LINCOLN EVENING JOURNAL AND NEWRASKA STATE JOURNAL, LINCOLN, NEWRASKA 19 May 1960

Atlas Construction Near Ellis

ATLAS (I.A.) DEEPENS FAST—It's been less than 3 weeks since ground-breaking of the Alias ICPM site near Ellis, but each-moving equipment has already opened a vast hole in which a 175-foot undergound "silo" will be contex. Those lights were set up a most immediately, and 3 shorts of workers have made the project a round-

the-clock operation. A huge low! some 35 feet deep has been scooped out, and work is about to begin on the vertical tunnel where the missile itself will stand in readiness. The iron-work which had be seen if a work collar and is not a permanent part of the milation. Ellis is about 10 miles southwest of Beatrice.

Allas Site Work Gets Good Start

Seven of 12 Going by Tuesday

Seven of Lincoln's 9 Atlaslauncher sites should be under construct. by Tuesday. But the builders, the West-

ern contracting Corp. of Sioux City still have another 5 instead of two yet to get under way.

Mason Travis, project manager, said Western has been instructed to procure materials to build the added 3 sites. This makes a total of 12 un-

Missile Base At Kimball, Too Page 6

derground silo intercontinental ballistic missile launchers ringing Lincoln

Western made a successful bid on the 9-site system, but agreed to build the additional 3 if so directed by the Army Engineers.

Options Exercised

A spokesman for the Army Engineers also contirmed that options are being exercised on land at Palmyra, Avoca and Elmwood for the additional 3 launchers.

All 9 sites were to be completed and ready for electronic installation under Air Force supervision by next May 23.

"The 3 additional sites added will give us another 3 weeks," Travis said.

Western's personnel manager, A. S. Barker, estimates about 175 men are on the job now. A peak of 500 to 700 will be reached by July 15.

Local Labor

He said local labor markets thus far have filled Western's needs with the exception of heavy duty diesel mechanics, who "are rare" and usually have to come from Arizona and Ohio.

Travis says the men are digging their way down the 175 foot deep silos for the underground missiles.

"Then they'll coment their way back up," he explained.

Lincoln JOURIJAL

& June 60

Atlas Project Dids Sought

Bids are being sought for construction of the re-entry vehicle storage and inspec-tion facilities at a Lincoln Air Force Base site in support of Lincoln's Atlas missile system.

Omaha District Office of the Army Engineers value the job at \$100,000. It must be completed by Mar. 15 of next year.

The job includes modifications to existing buildings, resurfacing 600 feet of flexible service road, furnishing and installing a 5ton overhead crane and seeding and mulching.

Bids will be opened July 1.

HE LINCOLN STAR . INCOLN, NEBR. 6 June 1960

onstruction On 'Allas'

se Begins

k / - Construction is: un way on the Atlas Interbar 5 n s west of York. u on liminary stages of eartruct of for the Western Caci Corp. of Sioux lov which has a conti to de d 9 Atlas bases in the inc area. ler Fistensen, crew for ran, aid 3 earth scraper two illdozers and one m g er are running 20 house do in the first con-struction arges of the undergi sile site. (said the crew is hole that measur 150 t by 330 feet long a: 100 At various depths, the de di become smaller un at the of 50 feet the of fee below ground surfac cxp med that the silo, ere: tructure to house th issi vill have a 50 feet

idi ter.

June 60

Chapter on Sto. (UPI) -Athe missile base controctors and officials of the George A. Suller Campany disagreed in part Thursday over the major cause of delays in completion of the Cheyenne area launching sites.

The contractor estimated that iabor disputes have carsed about 5 months dela: . but the company offic' , who asked that his name . o used, said the labor s. The tes were only a part

6: e-problem. 1: 2 Puller firm was prime contractor for Site A, one of 4 major sites, completed

about Nov. 1, 1959.

The official said, "The missiles are so relatively new that some launching pad and building designs are not current."

He said the bases are being built under a crash program while changes are still being

made in the Allas.

Delense Secretary Thomas S. Gates ordered the Air Force to prepare a report this week concerning rumors that missile bases, including Warren Air Force Ease and those sites round Offutt Air Porce Bare, are months behind construction schedilles.

8 June 60

Col. Frederick Marsh of the Lincoln Air Force Base told members of the Lincoin Optimist Club at a noon luncheon Thursday that "in the next war the entire United States will be a battlefield."

"Man must come to his senses and insist on disarmament and inspection but until then we must be prepared," he said.

Speaking on the topic "The Missile Weapon system at the LAFB", Col. Marsh explained the operation of missile bases and how they are constructed.

Marsh said that a missile site near Lincoln does make Lincoln a more strategic target but added "we must have deiense".

"There is no danger of a miss-fire with the missiles," he concluded

f l' l'hác 1000, L'h Lincoln Susr" L'h Work Legins

Several to-Work has been standed near Seward on the Atlas missile site. Ground was broken this week north-west of town.

Giant carth-moving machines started scraping out an oval hole which will reach 56 feet in depth by the middle of the month.

A shaft will be sunk 100 feet at one end of the oval.

Ands Site Publics Run Lito (Sand Trap)

By Bess Jenkins

Nature, not man-mode surless, has placed a temporary stumbling block in construction progress at one of Lincoln's Atlas missile sites.

An Omaha District Army Engineers spokesman confirmed Monday that fine sand keeps caving in at the Beatrice

site, where shaft mining has been in progress.

No soil difficulties were encountered in the initial 45 foot deep excavation at the site on the Paul Classen farm 3/2 miles east of Ellia and 3 miles south of Beatrice.

The sandy soil began collapsing as the men neared 75 feet. Total sile depth is 175 feet, to be fully cemented from surface to bottom.

One remedial step being considered is the application of steel sheeting.

This would be installed against the sand walls in addition to the steel rings which are being used every 3 feet in all the Atlas silo launchers.

Meanwhile the initial aboveground excavation at the 8th and to of Idneoln's 12 Atlas base was scheduled to begin this week. These are at Wilber and David City.

Mason Travis, project manager for the builders, Western Contracting Corp. of Sioun City, La. said sites 10, 11 and 12 (Chewood, Avoca and Palmyre) also should have construction starts in the next 10 days.

Otter sizes at Seward, York, Eagle, Nebraska City, Tecumach and Cortland are at various stages of excavation or the shalt mining.

Western Contracting Corp's, personnel manager reports about 300 men now are on the job, compared to the 175 several weeks ago.

Machinists

S: Cff John

ul Engling International Assn.

I SII siloquun

Rains Slow Work At Missile Site

Nebraska City (2) — The open of excavation stage at the Negraska City Atlas mis-

the Ne raska City Atlas missile be e is expected to be completed this week.

R. Feldhousen of the U.S. ps of Engineers, who is in parge of the project, said bough that work was delayed Saturday when the ground became too wet from rains to work.

In he present stage, the construction of the atlas silo is about 20 feet deep. The total depth will be 170 feet.

Feld ousen said the earthmovin job in the silo is expected to take about 4 to 6 weeks. After the job is complete, workers will begin pouring about 8,000 yards of concret.

NIKE SUPPORT AREA—Once completed by late July these buildings northeast of Crete along Highway 33 will provide the administration and housing support area for one of Lincoln's two Nike missile bases, now under construction. The Nike launching sites, not visible in this aerial, are to the left of the highway. This is known as the Berks base. A companion base is being built near

Agnew. The building in the upper left will house administration and the communications control center for the Army's defensive missiles. The upper right L-shaped structure is barracks, as is the long building in the lower left. The diagonal structure in the lower right is the squadron's mess hall. This aerial picture looks west.

State of a light Cave to the Are Slowing Work

Construction of the Atlas missile site near Beatrice has been slowed by caving sand.

An Omaha District spokesman for the U.S. Army Corps of Engineers confirmed that fine sand keeps caving in at the site.

Shaft mining is in progress there on the Paul Claassen farm 3 miles south of Beatrice.

The difficulty was encountered as the men neared the 75-foot copts. Total scheduled sile death 171 foot

silo der this 175 feet.

Application of steel sheetis being considered as a

tion at two more of Lincoln's 12 Atias sized is scarcifed to begin this week at Wilber and David City.

Work is in progress at 7 sites.

Litar Heads To Visit Mead Adas Sins On Friday

The Board of Directors of the Lincoln Telephone and Telegraph Co. with officials and department heads, will visit the Atlas missile launching site near Mead on Friday.

The group will inspect the microwave communications system and the administrative telephone system at the site.

The Mead trip will follow the quarterly meeting of the board at Lincoln.

The group will meet for lunch at Wahoo with onicers of the Ballistic Missiles Division located at the Mead installation.

Since 1952 the board has followed a policy of visiting various exchanges and installations in the company's 22 county operating territory.

All Workers Returning to Missile Jobs

Mead G-A spokesman for Convair said Monday it appeared that all workers were returning to work at the Omaha missile sites following a vote taken on a new contract at Fremont Sanday.

The company spakesman said the ballots east in the election Sunday were being taken to San Diego for counting and the results would be announced there.

He said indications were, however, that the vote on the contract was affirmative and the only workers not reporting for duty Monday were those prevented from reaching the site because of roads closed by high water.

The vote was on a new contract between Convair and the International Assn. of Machinists, ending a strike which had hampered work at the Mead and Arlington, Neb., and Missouri Valley, Ia., Atlas missile bases.

OMAHA WORLD HERALD OMAILA, NEBRASKA 14 June 1960

Beatrice Silo Sand Shifting

Atlas Missile Shaft in Need of Shoring

Lincoln (UPI)-A stumbling block in construction at one of Lincoln's Atlas missile sites is the result of nature and not strikes.

ine sand keeps caving in eatrice where shaft mining has been in progress, an Omaha District Army Engineers spokesman said Mon-

No soil difficulties were encountered in the first 45-foot excavation on the Paul Claassen farm 31/2 miles east of Ellis and three miles south of Beatrice.

The sandy soil began collapsing as the work men neared 75 fcet. Total silo depth is 175 feet. It will be cemented from top to bottom. Use of steel sheeting is being considered now. It would be installed against the sand walls in addition to the steel rings which are being used every three feet.

The initial excavation at the eighth and ninth of Lincoln's 12 missile bases is scheduled to begin this week. These are at Wilber and David City.

Sites 10, 11 and 12 at Elmwood, Avoca and Palmyra also should have construcan starts within the next 10 . Mason Travis, project. nager for the Western Contracting Corporation of Sioux City, Ia., said.

SIOUX CITY JOURNAL SIOUX CITY, IOWA 14 June 1960

'Sand Trap' Delays Atlas Installation at Beatrice, Neb.

LINCOLN (F) - Builders of the Atlas missile installation at Beatrice have run into a "sand trap."

An Omaha district army engineer spokesman confirmed Monday that fine sand keeps caving in at the site on the Paul Claassen farm three miles south of Beatrice where shaft mining has been in progress.

The difficulty was encountered as the men neared the 75-foot depth. Total scheduled silo depth is 175 feet. fully cemented from surface to bottom.

Application of steel sheeting is being considered as a remedial step.

LINCOLN EVE. JOURNAL & NEBR. STATE JOURNAL, LINCOLN, NEBR. 11 June 1960

Atlas Site Work Begun at Seward

Seward - Work has been started near Seward on the Atlas missile site northwest of town. A shaft will be sunk 100 feet at one, end of the oval. Giant' earth moving machines started scraping out an oval hole which will be 56 feet deep soon.

former employe of the against the facts for whatev-George A. Fuller Co., er value they may have in charged Monday night work the construction program." on 3 missile bases is in com-1 plete chaos in the Omaha area.

He declared there is little or no co-ordination, work is behind schedule, money and manpower is being wasted and there is political influence at work, he claimed in a statement over KMTV-Omaha.

Breese contended that it does not appear right now that the finished project will meet plans and specifications.

He declared he felt a Congressional investigation and! a government audit should be mode.

Breese is from Englewood, Calif. The Fuller company is nationwide contract concern employed by the corps of Engineers to help assure the earliest date.

Col. David Hammond, district engineer in charge of the projects, told KMTV that he was aware of "some broad allegations" and added "allegations of this sort are al-

Chaha F - Rex Breese, ways thoroughly checked

mer employe of a consulting will accept the project. He firm for the Atlas missile base project in the Omaha area that work on 3 missile sites in the Omaha area is complete chaos, and that he statement he received a was offered a \$50,000 bribe to remain silent, are under in-vestigation by the FBI, U.S. town," and has reported it to vestigation by the FBI, U.S. District Attorney William C. the FBI and to the office of Spire said Tuesday.

Rex Breese, who recently resigned as assistant project engineer for the George A. Fuller Co. nationwide contracting firm employed by the Corps of Engineers to help assure completion of the been filed or are contemplatproject at the carliest date, ed at the present time." made the accusations in a Omaha, Monday night.

Col. David G. Rammond, Omaha district Army engineer, replied the engineers' portion of the project is 98% complete and the Air Force has accepted everything but the propellant loading system, which still must be tested.

Breese claimed "there's definite political influence as well as an indication of graft and much buck-passing. He declared if the work continues without changes in management it will be question-

Omaha (P)-Claims of a forgable whether the Air Force sold it does not appear the finished project will meet plans and specifications.

Tells Of Bribe Offer Breese said in his television bribe offer of \$50,000 "to take special investigation of the Air Force.

Spire disclosed Breese's accusations have been under investigation for a month and a half and will be continued, but that "no charges have

Breese said he felt a Contelecast over station KMTV, gressional investigation and government audit of the project should be made.

Breese, who is from Englewood, Calif., stated "It has been widely discussed that after the Corps of Engineers accepted the completed job at Warren Air Force Base in Cheyenne, other government agencies had to step in and spend much additional money and time to correct deficiencies there."

Col. Hammond replied he knows of no construction deficiencies at Cheyenne or Omego that were not corrected by the contractor. He added that when a contractor fails to meet requirements of a contract, he is required to correct the deficiency at 1.15 own en inse.

Hammond added "I know of no sulft or nelitical makeence, but the FM is it testigating this aspect."

27 June 1960 LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA

Atlas Site Workers Remen

Walkout Protest Against Conditions'

Working conditions at Lincoln's Atlas missile sites were given by a union business representative as the reason for laborers walking off the job over the week end.

However, these men had returned to work Monday morning with the promise that these conditions would be ironed out at a labor-management conference Thursday in Lincoln.

Bud Finnell of Omaha, business representative for the hod-carriers and laborers union, said Monday the men-were called off the job in pro-

He declined to enlarge upon the difficulties, but said "we had talked to the site superintendents and to Mr. Travis about them."

Finnell said about 150 men working at 6 of the 12 sites, in the system were pulled off the job Friday.

Travis, who said the walkout came without warning to Western, reported the laborers (miners) also started! work on the Nebraska City site Monday. These miners are digging the 175-ft. silolike vertical launchers into which the missile weapons will be placed.

The project manager re-ported he was informed Sunday noon by an international representative of the Hod-Carriers and Laborers Union that the men would come back to work Monday.

Missile Sites Struck

Miners off Jobs, May Be Back Monday

By Bess Jenkins Labor difficulties now are plaguing the construction of Lincoln's Atlas missile system, it was learned Saturday

night.

Mason Travis, project leader for Western Contracting Corp., of Sioux City, Ia., which is building the underground silo launchers for Lincoln's 12-site system, con-firmed there are work difficulties.

About 120 miners, who are members of Local No. 1140, International Hod-Carriers And Common Laborers of America, have walked off the

These are men working in 3 8-hour shifts to dig the 175. It. deep silos at sites on e (Eagle); 3, (Tecumseh); 4 (Cortland) and 5 (Beatrice).

Another 30 Monday Another 30 miners were to start Monday on site two (Nebraska City). Western now has about 350 employes on its payroll.

According to Travis, a business representative of the laborers' union showed up at the sites Friday night and ordered the miners to leave their jobs.

"Our superintendents at the sites tried to find out from Bud Finnell of Omaha, the union representative, why this order was being given, but Finnell would not give them a reason," Travis said.

'No Warning'

Travis reported, "We have not heard of any basic grievance or have had any reason to believe the men were unhappy. There was no warn-ing of this walkout." Western Contracting it a s

communicated with international union representatives in Washington, D.C., and has been "told the men will be

back on the job Monday."
The crews ordinarily work on Sundays, too, Travis explained.

He said the presence of Western's president, Garland Everett of Sioux City, in Lincoln during the day was a scheduled risit, and not precipitated by the labor difficulties.

Finnell Out of Town Finnell, whom Travis said Western had tried to reach all day Saturday, was not in Omaha Saturday night.

A brother, Jack Finnell, said the union business representative was out of town. He said he knew nothing about the missile workers walkout but that "there were several laborers' strikes in southeast Nebraska, including one against William Brothers Pipeline in Nebraska."

it was only last Monday that workers covered by the barginning unit of the International Assn. of Machinists Union returned to work at the Omaha missile system's sites at Mead, Arlington, and Missouri Valley after a two-week

strike.

Miss Times Ends At 12 Lincoln Sites

Laborers who were ordered to leave their jobs at the 12 sites of Lincoln's Atlas Missile system Friday night were to go back to work "bright and early Monday morning."

Their return was confirmed by Mason Travis, project leader for Western Contracting Corp., of Sioux City, Ia., which is building underground silo launchers of the system.

Mason said he had contacted international union representatives in Washington, D. C., and was told the men would be back to work Monday.

day.
"It wasn't actually a strike." Travis said. "No bona fide reason was given for the wallout," he added.

Bad Finnal, representative of Internation Hod-Carriers and Common Laborers of America, who ordered the men to leave their jobs, was unavailable for comment Sunday.

Finnell, of Omaha, was reported to be out of town Sunday.

The 120 workers who left their jobs were miners and members of Local No. 1140 of the union. Sta gallo Afice Missilo Sito Misorors Lode to Mork

Atlas Missile site laborers rearried to work Monday, following a walkout profest over the week end.

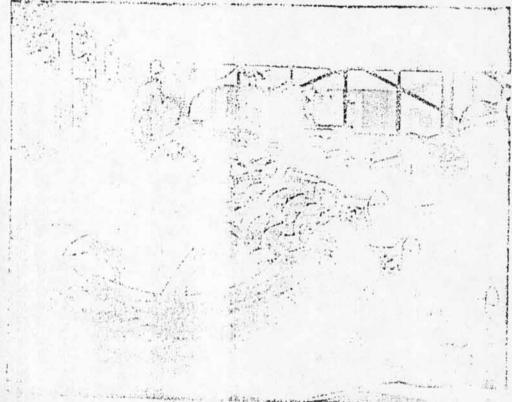
About 150 men working at 6 of the 12 Lincoln A+1 as missile sites were pulled off the job Friday to protest working conditions, according to union representatives.

Bud Fin fell of Omaha business representative for the Hod-Carriers and laborers Union, coelined to enlarge upon the difficulties, but ecomented that workers returned to work Monday morning with the promise that the coeditions would be ironed at a labor-management experence Thursday in Lincoln.

Mason Travis, project leader for the construction contractor building the underground silo launchers, stated that the walkout came without warning Friday evening.

The laborers (miners) are digging the 175-foot vertical launchers in which the missile weapons will be placed. OMAHA DISTRICT 29 June 1960

LINCOLN EVENING JOURNAL LINCOLN, NEBRASICA



Shop Superintendent Carter

almost lost in tube turns and well fittings.

Mosiles Need 'Plain' is, Too, Like Pipe

South

Cort missi items 30,000 + a new

The Co. ha for su water. and lul-

opened pipe fabri- months.

"ordinary" uses as rage septic systems ating oil. Bases being co ructed near Cort-land, I rice, York, Seward and We r will utilize the

Ungla prous as the work mishi compared to actual considerion and succession

sites, 14 welders and pipe fit-Nebraska Bureau ters are already engaged in The muscles of the necessary operation. Shop depend partly on Supt. Bob Carter said he expipe — like the which come out of probably will remain open 14

Miscellaneous smaller jobs estern Contracting for the bases will also be est up quarters in handled at the Cortland quarthe Combind Lumber Yard to service of the 12 Atlas wood will service the other bases a Lincoln with pipe 7 sites.

paration is ust g a helicopter but a leading spot closer to to speed work on Arlas missile the orrice is being sought. site construction in the Lin-1 coln area.

supervisory personnel from to the various sites, the heliits Lincoln project office a copter is also available for 507 So. 7th to the 12 scattered exergency situations. project sites.

Emergencies

In addition to transporting The new wairlybird flies supervisory personnel quickly

Mason Travis, Lincoln man-Paul, the corporation's pilot, ager for the Sloux City, Ia., is a veteran filer with 4,700 firm, sold the teopter is press hours in belicopters and 2,500 in airplacs.

The 3 lace Bell helicopter is radio equipped and has night-fixing gear. It can fly from almost zero speed to more than 100 mile per hour, and can land most nywhere.

14.600

Washington to - House-Senate conferces Thursday knocked out funct to harden Atias missile sites at Offutt Air Force Pase, Neb.

. The Senate had put \$1,872,-000 into the military construction appropriatio bill for the year starting Priday. It was not in the limise bill.

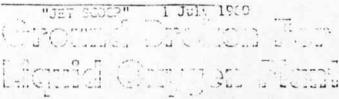
A \$1,954,650 item for expansion of Strategie Alt Command bead parters thefittes at Offutt remains in the mon-

SAC officials had requested the additional funds so the 3 Atlas sites surrounding the base could be hardened to with stand pressure of 25 pounds per square inch in the event of attack.

Each of the sites will house 3 Atlas missiles.

The concerees also agreed on 3173,000 for Army Reserve centers at Columb is and Norfolk and or. ..120.6 ... for a National Guard arm my at Crete and \$ 65,650 for a Grard armory at beatrice.

Funds of the centers and armovies have been voted by the Senale but all by the; House.



By Lt. Col. Frederick II. Marsh ability of producing 25 tons of Missile Weapons Offices

Ground breaking began on June 21 for construction of the new Liquid Oxygen Plant at Lincoln AFB. The plant will be built at the north end of the base on the the railroad crossing.

This plant should be completed end of the year.

liquid oxygen every day.

It will provide all the liquid oxygen requirements for both the aircraft already stationed at Lincoln AFB, and the Atlas missiles which will be stationed here. It will replace the existing one-ton southwest side of "B" Ave., near plant now located at the corner of Third Street and "F" Ave.

Liquid oxygen is produced by with a beneficial occupancy date taking a large quantity of air and for the Air Force of Oct. 10, 1960. subjecting it to a series of com-It is scheduled to be operational pression, refrigeration, and filterand producing liquid oxygen by the ling stages which separates the oxygen from the nitrogen and oth-This plant will have the cap- er elements in our atmosphere to give us the final product, a limpid colored, liquid oxygen of 99.5% parity at a temperature of --297 degrees F.

Secause of the requirement to maintain this liquid at such a cold. temperature, there is a certain amount of continuous loss through evaporation, even though vacuum storage and insulation is extensively practiced.

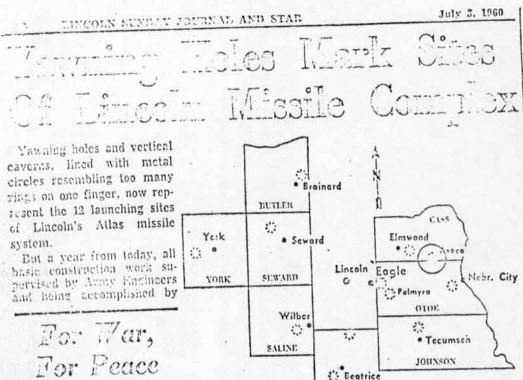
When the Lincoln AFB Strategic Missile Squadron is operational, it will be necessary to resupply each of the bardened missile sites about every ten days. This will be another of the responsibilities of the LON Plant personnel. It is now estimated that about 28 airmen and officers will be asigned to produce, maintain and resupply the liquid oxygen.

At present there is still some question as to whether these personnel will be assigned to the Missile Squadron, itself, or augmented with Combat Support Group pro-

sonnel.

OMAHA DISTRICT 3 July 1960

LINCOLN SUNDAY JOURNAL AND STAR, LINCOLN, NEBRASKA



For Peace

Parade

Western Contracting Corp. of Sioux City should be finished.

n Parade today, the Lincoln launchers and the weapons

All of the launchers, with the exception of No. 11 which is 5 miles east of Avoca, are under construction now.

Site No. 5, about 3 miles south and 4 miles east of Beatrice, was the first launcher base started. But sandy soil slowed down its progress and Site No. 3, which is 31/2 miles north and half a mile east of Tecumsel, is out in the lead.

120 Feet Down

Miners are 120 feet down the required 175 feet in the 225-ft, round cave at Tecum-1 Missile sites in Lincoln area . . . all but one started.

CACE

atrice site is getting more of on the remaining 9:

lemechers and the weapons for which they are being built won't be visible — unless they're being tested or fired for real. Each launcher in the system ringing metropolitan Lincoln will be underground in a silo-like nest.

One Missile

Unlike Cheyenne, too, there will be only one launcher and one missile at each of the 12 sites.

All of the launchers, with a silo-like nest, after they have been raised.

All of the launchers, with a silo-like nest, after they have been raised.

attrice site is getting more of the getting more of the 8 to 12-inch wide metal rings than the usual one every 3 feet to hold back the earth. Once the botton is reached, of contains of the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence as 9 feet in thickness.

The silo top requires the 9 feet strength to support congruence workers. They will site 5.2 miles east of Wilber—open congruence workers. They will line the silo walls with congruence as 9 feet in thickness.

The silo top requires the 9 feet strength to support congruence workers. They will site 10 to concrete workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will line the silo walls with congruence workers. They will lin

Atlas missile system featured at Beatrice The sends Da ha 24-hour day, 7-day week

Genes Laris

Feed Mousi

Adia Work

From Press Dispatches
Secretary of Defense Thomas S. Gates has ordered a report on allegations of delays in building launching sites for Atlas Intercontinental ballistic missies which apparently relates to the ICBM sites at Offeit to Fe e Base and Francis L. When Air Force Bose, Chayen Wyo.

A spression said Tuesday that Gates has known and

A speciesm—said Tuesday that Gues — 5 known and is concluded by a reported delays — the star site construction processing for the star of the star of

Rep 11e a Cunningham (R-Nel san le is aware of report of struction contract suble at the Offutt ICBM sojec.

Cunning in a blamed the system of letting construction contracts, a ling "this will always sappers so long as the government as es the 'bid brokerage' as tem for contracts

This bould be replaced by a method of ling a solid bid; backe by sond, Cunningham sod, a ling he has introduced by a solid bid; backe by sond, Cunningham sod, a ling he has introduced by solid bid; backet by solid bid;

000-Lb.

1 / Lon Walton
1. is no easy task to toss
a 3/3,730-point hunk of
med 1 thousands of miles theress the globe and bring it to earth within a mile or so of its target.

Yet, that is the job of the missilemen who have come to Nebraska to construct the complicated Atlas mis-

sile bases.

At Mead, one gets just a glimpse of the complex network of men and machines bound together from coast to court in an effort to make the Atlas a, success.

Things are still being refined at Cape Canaveral while we're constructing here." Col. V. L. Hastings of the Air Force Ballistics Missiles Division told newsmen Wednesday.

"We're tied amack in with developments there,"

he pointed ou ..

"More Medern"

Progress at Canaveral is such that Atlas sites surrounding Lincoln will be even more modern than those not even yet completed around Offutt Air Force Basc.

Lincoln sites, for in-stance, will be hardened (housed in underground si-105).

In addition, Lincoln Atias missiles will employ "inertial guidance," using the star Polaris for direction.

Atlas sites at Moad are above ground and make use of a radio control guidance system.

Construction at the Offull complex (Mead-Arlingion-Missouri Valley) is "pretty well on schedule," Cel. Hastings noted.

Lagging, in addition to e propellant loading systorn, is the missile checkout area (a month behind) and minor projects.

The guidance system is two weeks ahead of scheduie; communications is also ahaud.

base?

Among agencies working in co-operation at Mead are the Air Force Pallistics Missiles Division, Air Materiel Command, the U.S. Army Corns of Engineers, the Strategic Air Command, the Atomic Energy Commission, the Bureau of Mines and the Bureau of Roads.

Nine associate contractors and 13 sub-contractors are at work.

Employment has reached 2,300.

In addition to work on the sites (with 3 launchers each) a missile assembly plant, nose cone facility, technical supply area and a liquid oxygen generating plant are being constructed at Offutt.

How complex is the fa-

For instance, enough cable has been laid at Mead to stretch from there to Orlando, Fla., by way of New Orleans.

75 Cables

Seventy-five separate cables (with a total of some 2,500 wire. . connect each launch house building.

Involved are approximately 25,000 cross connections.

How powerful is some of the equipment?

The missiles are fueled with liquid oxygen at the astounding cate of 3,500 gallons a minute.

How simple is it to send the monster missile rearing off its pad at speeds well over 10,000 m.p.h.?

There's a little white button at the bottom left hand corner of the control panel.

It triggers the killer, an 80-foot long mass of metal 9 feet in diameter.

It is marked "Start." And, it chills you to look at it.

ATLAS O

"To be or not to be, that is the question " A destion mankind hopes will never arise.

JULY 9, 1360 "LINCOLM STAR"

PATES REVES

Washington (AP)-The Pentagon acknowledged Friday that substantial delays have occurred in building launching bases for Atlas missiles.

Secretary of Defense Thomas S. Gates ordered that procedures of government agencies and contractors be "lightened up or changed."

The delays, primarily at two locations-Cheyenne, Wyo., and Omaha. Neb .- may set back by as much as 5 months the time when missiles could be used from those bases.

About 20 missile launcher; out of a planned total of 130 are involved in the delay.

"Slippage" meeting of Gates and top Pentagon officials was held Friday. It said attention was focused "on slippage that has taken place in the operational readiness dates" of the missile saudrons.

The official amouncement blamed the delays on several

These included a requirement to build the launching sites for actual operational use without having prototypes on which to pattern the new sites; some delay resulting from the steel strike of last Year and management! procedures.

This was the latest chapter

in an inquiry brought to light after a fermer contractor em-An announcement said a missile bases in the Omaha ploye charged that work on 3 area was in what he termed "complete chaos."

Contractor Blamed

Army Engineer spokesmen in Omaha said at that time there had been construction deficiencies chargeable to the contractor but they were be-

Atlas sites scheduled to ring the Lincoln Air Force Base were not affected by Friday's announced delay.

ing completed by and at the expense of the contractor, the Malan Construction Co., of New York City.

Col. David G. Hammond, Omaha district engineer, who is the contracting officer for the projects, said the Malan company had sub-contracted more than 90% of the work.

"It is obvious that the problems of co-ordination and supervision of a construction project increase with a large number of subcontractors . . .," he said.

Maj. Gen. Keith R. Barney, Missouri River division engineer, reported that the work under the Afalan contract is now about 98% complete.

When asked if the Pentagon meeting also included discussion of work stoppages at sites, a spokesman replied in the affirmative.

Conflicts

Unofficial reports of construction difficulties have mentioned conflicting directions from different military agencies, equipment incorrectly installed and jurisdictional disputes among labor unions.

The official statement said: "Difficulties encountered in construction and installation and testing of equipment can be partly accounted for by the unique fact that the construction of sites for the first 4 squadrons was undertaken without the benefit of an operational prototype launcher such as will be available for later sites. Also some delay in the early squadrons was due to the steel strike of 1959.

"Management procedures of the Air Force, (Army) Corps of Engineers and their contractors are being reviewed and will be tightened : up or changed. Further, with experience gained to date in construction, installation and checkent it appears that slip-page should be confined to the first soft squadrons."

Werkers Reach Bottom at Teamnesh Affec Missile System Launch Site

is for Western Contracting Corp. said.

Workers have reached bot- Pretaration work is neces- Travis said construction of tom (175 feet below the sur- sary before concrete work- the launch control centers, face) at one of the 12 launch-'ers begin to cement their which are constructed beer sites in Lincoln's Atlas way back up the vertical cav- neath the earth at a 45-foot

missile system.

"We expect to begin cementing our way up at Tecumseh (Site No. 3) by this some phase of construction. (Site No. 3): Eagle (Site No. week end or early next week," with a new | k employment 1); Cortland (Site No. 2), a project manager Mason Tray. of 525 work | Beatrice (Site No. 5).

14 July 1960 THE LINCOLN STAR LINCOLN, NEBRASKA

OMAHA DISTRICT

15. July 1960 THE LINCOLN STAR LINCOLN, NEBRASKA

BIDS ON MISSILE BUILDINGS TO BE OPENED AROUND AUG. 11

Army engineers will open ing and seeding, bids about Aug. 11 for con- Engineers estimate the cost struction of missile assem- at \$1,200,000 and will require bly and technical supply completion 250 days after buildings at the Lincoln Atlas award of contract to the low ICBM Complex, Colonel D. G. | bidder. Hammond, the Omaha district engineer, said Thursday.

The job includes building a single story 225 by 162 foot steel frame assembly building with metal siding, builtup roof on a wood deck and joists, and concrete slab floors. The-technical supply building will be a one-story 200 by 88 foot addition to an

g building with specifisimilar to those of the missile assembly building. Also included are a wooden gatchouse, helium and nitrogen vessels with appurtenances, utilities, paving, fenc-

Huge Hele For Atlas Completed

... NEAR TECUMSEH

Workers have completed excavation of a hole 176 feet deep at one of 12 Atlas missile underground launching sites in the Lincoln system.

The bottom was reached first at Site No. 3 north of Tecumseh, according to Mason Travis, project manager for the Western Contracting Corp.

The hole, which will eventually house a continent-spanning Atlas ballistic- missile. consists of a 136-foot shaft and an open cut 40 ft. deep, Travis said.

"By this weekend or early next week," he explained, work will start in preparation for pouring concrete.

That involves installation of reinforcing steel, frame-work, sumps and electric ground nets, Travis said.

Then workers will begin cementing their way up the sunken silo.

When they're done, 2.000 cubic yards of concrete, uniformly 30 inches thick, wil have been poured, he said.

Travis also added that con struction of launch contre centers, buried 45 feet deer has started at 4 sites.

They are near Tecumsel Eagle, Cortland and Beatrice Similar construction wil be starting soon near No braska City, he added.

By Lt. ol. Vance II. Larrabce Mis To Weapons Officer

Basic construction progress on Lincoln's 12 missile sites now range from a completed excava-Three, cumsel, to an initial open e avation cut recently started | Site Twelve, Palmyra.

The mining work at Tecumseh was completed last Sunday evening. It is the first of Lincoln's missile sites with the excavation phase complete.

Construction work is in progress on all sites by the Western Con-

tracting Corporation of Sloux City, Iowa, under supervision of the Army Corps of Engineers.

The construction program is monitored by the Air Force Baltion, 180 feet in depth at Site listle Missle Division with field officers in Wahoo, Nebr.

Heavy equipment operations, utilizing two 11 hour working shifts, are in progress at Sites Eleven and Twelve where excavation cuts are being made.

This cut, the initial construction work, made in a rectangular area, 150 feet by 250 feet, slopes to a depth of 45 feet. It is similar to a large gravel pit.

When this site is complete, the site will be ready for mining operations, starting at the 45 foot level. The mining work, a vertical excavation to an additional depth of 135 feet with a diameter of 72 feet develops the Silo shape.

Excavation cuts are now complete on launch Sites Seven, Eight, Nine, and Ten, and mining, on a three eight-hour shift basis, is in progress at Sites One, Two, Four, Five, and Six.

Reenforced steel bars were installed at Site Three, Tecumsch, this week in preparation for the cement work, known as the brick and mortar' phase, which is now underway.

This is accomplished in one continuous concrete pouring operation with an interior 'slip' form which is raised as the concrete is poured and hardens. This process takes roughly two weeks to complete.

Next, the two-story Launch Control Center is built above the ground in the open cut. When the launch control center, the top of the launch site silo and the interconnecting tunnel have been completed, the earth is filled in around these facilities, so that they, will be completely under the final ground level.

It is expected that the basic construction of all Lincoln's Missile launch sites will be completed early next summer.

INCOLN EVENING JOURNAL INCOLN, NEBRASKA

It Was Heek of a Dust Storm

been 1 175-

> the n in

in-

taid

est-

see

Melvin Fricke . . . wood-from v y down.

Atlas Base Digger Petrified Wood M stery

By Dean Terrill Southeast Nebraska Bure

Tecumseh-Workers spearing 175 feel into the earth , here for an Atlas sunken silo may have If-way expected to hit China, but instead they came with something more mysterious.

Near the bottom of the just-comple' shaft-in fact, at the 140-foot level-they uncovered pot eles of wood. A small piece is badly deteriorated, but a arger chunk appears to be partially petrified.

The finds have so aroused the curic y of excavators that Melvin Fricke of Tecumseh, a cre foreman, plans to seek authoritative opinion on the wh of the deeply buried pieces.

and wherefores

Some skeptical workers are now believers in the theory that the area was once a part of the Gulf of Mexico.

The semi-petrified wood showed enough flexibility that it apparently was severed from an unrecovered portion, Fricke said. The pieces seemingly came from some type of pine growth.

Western Contracting Co. just announced that the Tecumseh site is the first of its 12 ICBM bases in this area where excavation has been completed to the required 175-foot level.

Next step is the pouring of concrete, from the pit bottom upward.

A representative of the Smithsonian Institution of Washington, D.C., at the Institution's Lincoln office, said the find sounded very interesting but he would have to see it to say much about it.

Geologists of the State Historical Society and the State Museum were not readily available to express their opinions on the wood; presumably they were out digging artifacts of their own.

It is not unusual to find chunks of trees and pieces of wood which have been washed into some sands and gravels accumulated with water, according to Eugene C. Reed, director of the conservation and survey division of the University of Nebraska.

Reed, also the state geologist, said that the pieces of Continued on Page S

How Did Wood Get There.

Continued from Page 1

wood could be as young as 10,000 years or be as old as several hundred thousand years.

The wood, which was found in relatively good condition, was preserved by slowly moving water which keeps the wood from decaying, he explained.

Reed thinks by the beginning of next week the pieces could be given a carbon test, which can tell exactly how long it has been since the tree lived if it has not been longer than 50,000 years.

As to the Gulf of Mevico theory, Reed said much more information is needed to be sure.

"The only definite thing," he said, "is that the climate of that section of the state was cooler than it is now. There

are very few natural pines growing there now."

The climate could have been like that of northwestern Nebraska around the Pine Ridge area near Chadron," he added.

OMAHA DISTRICT 16 July 1960

THE LINCOLN STAR LINCOLN, NEBRASKA

Mystery Of Petrified Wood Develops At Atlas Base Site

ing 175 feet into the earth completed to the required 175here for an Atlas sunken silo foot level. have come up with a mystery.

Near the bottom of the justcompleted shaft-in fact, at upward. the 140-foot level-they uncovered particles of wood. A small piece is badly deteriorated, but a larger chunk ap-

The findings have so aroused the curiosity of exca- it to say much about it. vators that Melvin Fricks of Tecumseli, a crew foreman, plans to seck authoritative opinion on the whys and wherefores of the deeply buried pieces.

Some skeptical workers are now believers in the theory that the area was once a part of the Gulf of Mexico.

The semi-petrified wood showed enough flexibility that it apparently was severed from an unrecovered portion, Fricke said. The pieces seemingly came from some type of pine growth.

Western Contracting Co. just announced that the Tecumsen site is the first of its

Southeast Nebraska Bureau | 12 ICBM bases in this area Tecumseh - Workers prob- where excavation has been

Next step is the pouring of concrete, from the pit bottom

A representative of the Smithsonian I n s t i t u tion in Washington, D.C., at the institution's Lincoln office, said pears to be partially petrified. | the find sounded very interesting but he would have to see

Sprawling Base Multiplies Work

By Ralph Smith

Work Saturday was geting into the full-scale phase on a construction job that is sprawled over an greater than that of connecticut.

It is the new Lincoln Atlas missile base, Its 12 sites are scattered from York to Nebraska City and from David City to Wymore to encompass an area of 5,030 square miles.

This total is believed to make the Lincoln job, with its twin being built at Salina, Kans., the most sprawled-out project in engineering history. The Lincoln job also is unusual in two other respects. It and the Salina project are the nation's first hardened—that is, underground—Atlas missile bases.

They also are the first unitary projects. Only a single missile is spotted on a single base. Elsewhere, as at Omaha, missiles are in clusters of three.

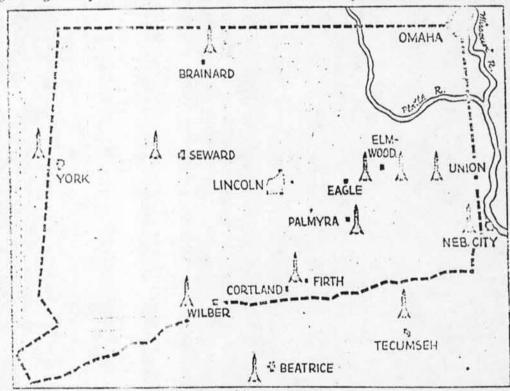
The job's sprawling nature adds to the construction problems of the Western Contracting Corporation. The Sioux City, Ia., firm holds the 23-million-dollar contract for the

Omaha District of Army Engineers project.

Mason Travis, Western's project manager, said that problems of supervision, equipment and scheduling all result from distance and area.

Supervision boils down to the difficulty of keeping in touch. To cover the job by car from Lincoln requires driving almost the distance to Chicago.

To tighten control, Western has assigned a threeplace helicopter for supervisory heads. Two extra echelons of supervisory personnel have been insert-



A big job . . . May of missile sites with Connecticut's outline marked by dotted line.

ed in the organizational set-up. Two telephone lines run to each site and the whole — headquarters, cars and sites—are linked by a radio network.

The equipment needed is greater than that required for the three-missile bases, Mr. Travis said. Each site has to have its own complete set of machinery. In the contracting phase, the Lincoln job will require a 25 per cent greater saturation of machinery than a standard missile job.

Similarly, there will have to be individual concrete mixing plants to serve each site, Mr. Travis estimated that this will boost cost for this item by 50 per cent.

The job will require eight unloading points rather than a single one. This in turn will multiply eightfold the number of unloading hoppers, conveyers and cement screws used to unload railroad cars bringing in material.

Each installation consists of an underground silo, 175 by 52 feet to house the missile, and a launch control center. This cheeseboxshaped underground structure is 40 feet in diameter and 30 feet high. In it is the equipment for servicing and launching the missile. Center and silo are connected by a 16-foot tunnel.

The sites are being constructed by cut and cover. Earth is stripped away in an egg-shaped cut four hundred feet in greatest dimension and from 35 to 57 feet deep. The control buildings are then constructed in the open and later will be covered with earth. The siles are dug downward from the bottom of the open cut.

28 July 1960

LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA



ARMY ENGINEERS CHIEF HERE - Col. Harry G. Woodbury Jr. (second from right), new Omaha District Army Engineers chief, is greeted at a luncheon meeting during his first visit to Lincoln. With him are (from left). Kenneth Weaver of Raymond, Salt-Wahoo Watershed District vice president; Earl Luff, chairman of the watershed's Tiaison committee to the Army Engineers, Col. Woodbury and Lt. Col. Hal L. Schroeder, area Army Engineer in charges of Lincoln's Atlas and Nike missile construction.

New Engineers Chief Talks Missiles, Floods

By Dess Jenkins

Man-made missiles and nature-wrought floods were major concerns of Col. Harry G. Woodbury Jr as the new Omaha District Army Engineer made his first official visit to the Lincoln area.

This is the status reported Thursday by the new Army

Engineers district chief:

"I believe we can give the Salt-Whoo Watershed District a report sometime in September on our preliminary restudy of the Antelope Creek dam teasibility."

-"Some of the 12 sites in the Lincoln underground Atlas missile system are ahead of schedule, some are behind. We see nothing now that

would indicate our contracting firm. Western Contracting Corp., cannot meet its July, 1961, completion date, but we are exploring methods to catch up on our interim sched-

-"Construction being done on the Nike-Hercules batteries at Berks and Agnew should be completed in a few weeks. and the first Army men will move in next week."

Woodbury, successor to Col. David Hammond, reported as chief of the Army Engineers' largest district earlier this; month.

Meets Leaders

He met with members of Watershed the Salt-Wahoo District and several Lincoln civic leaders at a luncheon sponsored by Earl Luff. The latter is chairman of the watershed district's committee working with the Army Engineers.

"Maj. Gen. Keith R. Barney, the Missouri River division chief, has informed me of the urgency of the Salt-Wahoo project," Col. Wood-

bury said. "I appreciate the general nature of your problem in the Antelope Creek Dam proposal and your desire to bring into focus the picture of urban development and longrange flood control." the colcnel said.

He added, "I hope there can be some understanding and something can be done without waiting until a flood comes. Prevention, not cure, is indicated.'

There has been some previous discussion that urban development property costs would not make the Antelope Creek dam feasible in the Salt-Wahoo program in the eyes of the Army Engineers.

Col. Woodbury said once the feasibility question is resolved, Antelope Creek Dam then would be returned as a part of the complete Salt-Wahoo project.

"I believe we will be able to adhere to the project schedule previously indicated by Col. Hammond," the new engineer chief said.

In referring to the Lincoln Atlas time schedule, Col. Woodbury said Garland Everist of Sioux City, Ia., president of Western Contracting, would be among the

Atlas building contractors an labor leaders attending Pentagon - called conference Friday in Washington. All 'New"

We are new at building missile bases, 175 feet dow in the ground; so is the .. Force; so are the contrators," Col. Woodbury said.

He indicated sandy soil an excessive water hit in sont of the shaft mining were m: jor reasons for the delay.

"Once these 12 silos a: mined and lined with co crete, even bad winte weather should not hold : meeting the schedule," Co Woodbury concluded.

Atlan Activation 3 Jul 60 3 Lancius Late

there is \$1. - Col. Vernon Hastin, as invoted Saturday the On the Atlas missile installation will be ready for activation in late winter or sariy spring, 3 to 3½ months for their originally hoped.

Col. Hastings, commander of the Air Force Ballistic Missile Division's Omaha field office, said the guidance-control system is coming in as planned and will be ready by late fall. The delay comes in the launcher equipment, he said.

Mining at missile site is 12.00 at missile site of the file of the

Then will come concrete work in Atlas "silo."

The mining operation at Atlas missile site No. 2 west of Nebraska City is expected to be completed by August 15, according to Mason Travis, Lincoln, project manager for Western Contracting o f Sloux City, Iowa.

The mining operation Saturday neared completion as crews worked in the deep pit with only 20 feet more of earth to remove to complete the job.

Mr Travis said after the mining operation is completed, concrete will be poured for a base slab in the bottom. Next will be installation of electrical grounding systems and reinforcing steel.

The next major job will be the pouring of concrete for the silox. The slab and walls of the pit will require 5,000 cubic yards of concrete. Added to that will be 2,500 cubic yards for miscellaneous structures.

Mr Travis, who is project manager for 11 missile sites in the area, aid construction of the Nebraska his base will be completed by May 1861.

The jobs are being done in a stephy-step phase so that some bases will be completed before May and some later.

At present, the same earth moving equipment is being used at No. to dig out that last 20 feet. Well tumps have been put into operation to keep water out of the pit.

The pumping operation is conidered normal, Mr Travis said,

The total depth of the silo will 175 feet. The actual depth of the silo before fill is put in will be 6 feet. After the concrete silo is tured that 136 feet, earth from a original egg-shaped cut will be oved back to the cut, more concite poured and the end result: 175 foot deep silo.

Western has 55 men working on the No. 2. Crews are working 24 turs a day.

The Iowa firm will be working on site until August, 1961, Mr Tra-

said Saturday.

Avics Mining Work Nears Completion

Nebraska City (A) — Crews working around the clock are nearing completion of the mining operation at the Atlas missile site No. 2 west of Nebraska City.

Mason Travis of Lincoln, project manager for the western contracting company of Sioux City, said this phase of construction should be completed by Aug. 15

once the mining operation is completed, Travis said, concrete will be poured for a base slab in the bottom and an electrical grounding system will be installed.

6 August 1960

THE LINCOLN STAR LINCOLN, NEBRASKA

Missile Fuel Hauling Rates To Be Fixed

California trucking firm been authorized to estabrates for hauling missile to launching sites in Neka. the State Railway mission reported Friday. e firm, Asbury Transporn Co. of Los Angeles, employ special, expen-1, the same city. equipment and specially ed personnel for the job. mmission spokesman said will transport cryogenic ds and/or liquefied gases, pt propane and butane. point of origin of the fuel mknown.

other action related to ile sites, the Commission a hearing for Aug. 9 on otion to strike an applin of the S and S Conction Co. of Olathe, Kan., a ruling relative to the truction for and leasing he U.S. Air Force of an rground communications em for the Lincoln missile plex.

Jurisdiction

e question is whether the way Commission has jurtion over the system as ould over commons car-

neteen Nebraska genermmodity motor carriers requested the Commisto grant a flat \$3.06 mina charge for any shipto replace the graded under which the minicharges range from \$21 2.75, depending on dis-2. The Commission set a ing for Oct. 18 on the re-

e Commission granted to ebraska railroads an inse in rates amounting to: on shipments of less! 2.000 pounds, effective. 13. Motor carriers were atly granted a similar ii ease.

The Railway Express Agency of Omaha was authorized; to close its express facilities in the Chicago, Burlington & Quincy depot at Plattsmouth and re-establish service at the Missouri Pacific office in

Discontinue Agency

The Burlington was authorized to discontinue its agen-

cy at the station of Odell. The Benkelman Telephone Co., Inc., of Benkelman, was granted authority to issue \$75,000 in 6% first mortgage bonds and adjust rates and charges for telephone service.

Northwestern Bell Tele-phone Co. of Omaha was granted authority to establish rates for a new type of dial private branch exchange service arranged for direct inward dicling.

The original base rate area map for Gretna was also approved for northwest, as were other minor map ravisions.

The hearing originally set for Aug. 16 on an application by the Hyannis Telephone Co., Hyannis, to borrow \$45,-000: and adjust rates following cutover to a proposed new dial switchboard was reset for: Aug. 23 at the applicant's request, the Commission reported. It will be held in the courthouse at Hyannis.

House Miliary Operations before opening negotiations. Subcommittee is considering a juli-scale investigation to discover why construction of some Atlas missile bases in the United States. is lagging by as much as 5 or at a cost of roughly \$390 mil-

The subcommittee hopes to begin hearings within the next; few weeks on the potentially serious delays in the building of the launching pads for the Intercontinental Ballistic Missiles.

Subcommittee Staff Director Herbert Roback told United Press International that Chairman Chet Holifield (D-Calif.) hoped to schedule the hearings either during or immediately after postconvention session of Con-

Roback, just back from an investigation of building delays in the Atlas complex at Offutt Air Porce Base, Neb., said the subcommittee anned to study all facets of

Army Corps of Engineers-Force management team responsible for building the launching pads.

"If you don't have a launching pad," he said, "what's the good of a missile?"

Way Behind

The subcommittee staff director said the first part of the Offutt missile set up originally was scheduled to have been finished last February with the entire job completed last May.

Air Force officials, Roback said, now hope to have the Offutt pads "substantially finished" in September.

He said similar construction lags had been admitted by the Air Force at Warren Air Force Base, Wyo., and Vandenberg AFB. Calif.

Roback said the subcommittee planned to question defense officials on their contracting procedures.

He said there was some question whether such a vital program should be handled completely open bidding whether the Defense Department should establish a

ashington (UP1) - The list of qualified contractors

lion.

The Defense Department, Roback said, has announced that construction of 6 out of the 7 missile squadrons started during the last fiscal year, which ended June 30, are either on or ahead of sched-

Atlas facilities also are be-Ing constructed at Fairchild Air Force Base, Wash., Forbes AFB, Kan., Schilling AFB, Kan., Lincoln AFB, Neb., Altus AFB, Okla., Dyess AFB, Tex., Walker AFB. N.M., and Platt burg AFB.

"Star" as Posts Turned Over To SAC Mon

Omaha (A)- Three Atlas Intercontinental ballistic missile site launcher positions at Francis Warren Air Force Base, Wyo., have been turned over to the Strategic Air Command 564th Missile Sq., SAC announced Tuesday.

The 3 positions have been accepted from the Air Research and Development Command by the Strategic Air Command and declared operational by Gen. Thomas S.; Power, SAC commander. Gen. Power said the mis-

siles have been placed in alert status along with SAC's B47 and B52 bombers and the Atlas ICBM's at Vandenberg AFB, Calif.

The new facilities will be

manned by personnel of the 564th Strategic Missile Squadron, commanded by Col. Julius Pickoff of Manor, Tex. Warren AFB is the second

SAC base to have operational capabilities with the Convair-built Atlas ICBM. Vandenberg AFB, the giant missile training center, has had the Atlas on alert since September, 1959.

I,100 Worling On Atlas System

Western Contracting Corp., builders of Lincoln's underground Atlas missile system, now have 1,100 workers on

the job.

The employment peak still is to be reached—somewhere around 1,500-before basic construction is com-

Missile Meet Held

Col. Thomas Corbin and Col. William H. Working represented Lincoln Air Force Base at Strategic Air Command's first all-exclusive missile conference at Offutt SAC

headquarters.
Col. Corbin is air division co:nmander; Col. Working,

base commander.

Where missile squadrons are not yet on operational stalled along the sides of the status, division and base 175 foot hole before concretcommanders represented the ing the walls all the way scheduled missile areas. Numbered Air Forces with bases slated for missile complexes also sent representatives.

pleted at all 12 launcher sites by next July.

Mason Travis, Western's project manager here, said the phase sequence schedule at the sites now has shifted to concurrent operations at all 12.

11 of 12 Sites

Mine shafting operations are in progress at 11 of the 12' sites.

The 175 feet underground silo already has been completed at Site No. 3 (Tecumsch) and a 60 ft. in diameter base slap finished.

Reinfercing steel and imbedded metals are being inback up.

Site N 2 (Nebraska City) and Site 10. 9 (between Brainard and David City), should be read for the base slab operations by next week, he said. The concrete slabs are 4 fe thick.

Bids Lovi On Missile Bldg.

Omaha, Neb. (UPI) - The Martin K. Eby Construction Co., Inc., Wichita, Kan., was the apparent low bidder for construction of a missile assembly and technical supply building at the Lincoln Air Force Base, the Omaha district of the Army Corps of Engineers announced.

The Kansas firm underbid 9 other companies in some of the closest bidding in the history of the Omaha engineers district.

The Eby firm's bid was \$913,622, compared with the government estimate of \$1,075,100.

The engineers will award the contract within a week or so. The work will start within 10 days after the contract is awarded and must be completed within 250 days.

The building will be part of the support facilities at the Lincoln base for an intercon-, tinental ballistic missile unit. no more delay

Base activation is discussed at secret SAC meet

By WILLS & T. BRAMMEIER United These International

OFFUL: AIR FORCE
BASE (IEE)— The man in charge a hurrying the nation's It recontinental Ballistic Mis a Bases into operational state predicted today there would be no further delays.

Maj. G. Thomas, Patrick Gerrity, Commander of the Air Materiel Command's Ballistic Missile Command to a news conference at Statemic Air Command Headquarte here this morning that from on the Air Force would be within up with its schedule.

Gerrity, whose badquarters are at Ingelwood. Cald, held a conference toda with the commanders of the at Sac bases which now have at the have ICBM installation.

During the second conferences, problems a second the bases were discerned is commanders of bases were discerned the bases we yet to received the base "birds" were briefed on the base become operational.

Inter Team .

Gerrity his job to newsmen a high thing the team of industry to deliver ope bases. "I have a very good team to take the base a high thing to catch up with the high without any further slip."

One of the bir problems, he said, is the needed, in production orders. If and this will not cause any differ the change orders will a then needed.

"We are such ally seeking to provide be and missile sites for a mitry. To do this, we are porate any improvement of the production as they contains the production as the production are production as the production as the production are production are production as the production are production as the production are production are production as the production are production are production as the production are production as the production are p

Proble At imilar

The 57 - par-old general said the problem he does in the missile race are smilar to those which confidenced her in integrating the Born war and But here, he said, "I production line is 10,000 miles long — with one thousand production centers all over the fields the being compo-

"STAR" 12 Aug 60 Super Missile Houselteeping Poilities Set

Mead G — Super cleaning facilities have been set up here to serve missile bases now under construction.

The on-the-spot housekeeping functions are designed to eliminate bits of dirt, dust specks, grease smudges and other minute foreign substance in the complex missile mechanisms.

The Mead facility is one of a number established by the Dow Chemical Co.'s industrial service.

The rooms where the cleaning is done are kept under slight air pressure and dust-free. They are entered through air-locks by workers who wear white, lint-free dress, head covers, foot covers and plastic gloves. Bare hands never touch the parts being cleaned.

The Mead facilities are suitor cleaning valves, presregulators, expansion flexible tubing, instruments and pipe.

Śays Gen. Gerrity I've Production Line DVOVO 0,000

Omaha (AP) - The general charged with getting the nation's operational ICBM program back on schedule Friday described the problem as one of a "10,000-mile production line" and a compressed schedule.

complex missile production, listic missiles center at Ingle-The line includes the whole, from manufacturing plants to right time.

Does he anticipate further tional Atlas missile.

"I anticipate catch-up," de- pleted, the Offutt Air Force clared Gerrity, chief of the Base Atlas project is not un

wood, Calif.

launching bases, said Maj. tegic Air Command conferthe operational parts at the missiles site activation as a result of a lag in completing involves bringing together all was named boss of ballistic The general, here for a Stra-Gen. Thomas P. Gerrity, and ence of missile commanders, sites for the already opera-

Because it is nearly com-

-ithe Lincoln AFE Attas proj-

intend to make the schedule." day, but of that missile base He did not visit Lincoln Friproject and others like it, he

business of change," he told a news conference. "It is a "You can rest assured I'll The problem is not one of avoiding changes in the missile program-"this is a question of coping with be back often to see them."

He compared the ICBM program with the World War II project to develop, manufacture and get into combat the B29 bomber.

ment on the specifics of speeding up the missile base program except to say that Gen. Gerrity declined comas a beginning "we've welded together a tighter team."

13 August 1960

MISTRICT

LINCOLN, NEBRASKA THE LINCOLN STAR

Saturday, August 13, 1950 The Lincoln Star 9

1,104 MEN WORKING ON LINCOLN ATLAS SYSTEM

mistile system.

workers.

A total of 1,104 men are According to Mason Travis presently helping to build of Western Contracting Corp., Lincoln's underground Atlas builders of the missile systicities events. But these aren't all the tem, a peak of about 1,500 by the end of construction ex-

Progress: Normal

work is progressing at a nor-

Shaft mining is being done in 11 of the 12 locations.

Eagle, Nebraska City, Tefor Jaunch control centers at cumseh, Cortland, Beatrice to pour concrete for the Concrete is being poured shafts at the Tecumseh site. Workers are now preparing and Wilber.

Di

٤

November through March of 1961 crews will be erecting structural steel, installing electrical and propellent mechanical and loading systems. tuamcinna

are being carried on among all 12 missile sites, Travis Concurrent work operations

Wichita, Kan., with a bid of der to construct Lincoln mis-Omaha - The Martin K. \$913,622 was apparent low bidsile system's checkout facility for actual weapons.

Low on Unit m temme 1 mm

Ten bids were opened by -the Army Engineers' Omaha Two Lincoln firms were Kingery Construction, submit-ting a \$1,038,838 figure, and Olson Construction Co., bid-C District office late Thursday. O ding \$1,054,189.

Engineer spokesman said there was only a \$226,-Note of the second the An

Army Engineers estimate The contractor will be given awarding to complete the C for the job was \$1.2 million.

tion of a single story 225 hy 162 ft. steel frame assembly building at Lincoln Air Force The job includes construcproject. Base.

This is the structure in which each of the missile weapons destined for the 12 launcher sites in the Lincoln missile complex will be checked out.

A technical supply building 200 by 83 ft. addition to an exare a wooden gatchouse, heutilities, paving, fencing and isting building. Also included lium and nitrogen vessels, in the contract is a one-story,

Construction of the Atlas missile base (Site No. 2) west of Nebraska City will soon be in the | will be about 1

concrete pou large hole is the

stage. The actual sile and feet deep. The

other construction in the upper | are about 46 feet below ground part of the picture is the control center. Both construction areas

level.

el'ete

The first of the concrete pouring der what will be the bottom of the the silo and an estimated 45,000 to t Atlas missile site No. 2 west of silo. lebraska City will get under way fonday.

The concrete will be poured in the ontrol center, heart of the Atlas ase.

On hand to direct operations are erschel Donoho, general superinindent for Western Contracting Co f Sioux City, Ia., and Kenneth orps of Engineers.

al earth moving job in the lo is nearly completed. Only 12 et of earth has to be removed bere the mining crews finish their

The last 24 feet have been sand project manager for Western. id it ber b in graph t that an-

During present onstruction, mining crews have : ' in the 40th ring beam and have for more to go before hitting botte. In between the steel beams, ich weigh 120 pounds per foot, ews are placing lagging. A ring | m weighs 21,000 pounds.

Oak wood ser s as support to keep the dirt and sand walls from caving in. Workers will have 12 50horsepower water pumps taking water out. The me hines each pump 400 gallons of water per minute.

The actual commete pouring Job for the base will : quire 7,500 cubic yards, according to Mason Travis,

Western has removed an estimat-He cartt thois

46,000 cubic yards of earth from the open cut.

Two mats of steel will be placed on the bottom of the silo before concrete is poured.

Reinforcing steel bars that will be placed in the silo walls are two and one-quarter inches in diameter. The concrete walls of the silo will be three feet thick.

An estimated 400 tons of reinforcing steel will be used in the silo.

Slabs up to four feet thick will be pource " " the control center and sile. When the jobs are nearly completed, all the earth from the open cut will be moved back around the structures giving the countryside in the way of 110'hinn mi

OMAHA DISTRICT 16 August 1960 OMAHA WORLD-HERALD OMAHA, NEBRASKA

Missile Sites Job Doubles

Lincoln Work Added for Col. Hastings

Col. Vernon L. Hastings, in charge of preparing Omaha area Atlas launch bases, also will direct the work of activating the 12 intercontinental ballistic missile sites to be supported by the Lincoln Air Force Base, the Air Force and Cod Tuesday.

this activity he will work directly under Maj. Gen. Thomas P. Gerrity, whose Air Force Ballistic Missile Center recently was given the job of expediting the Atlas base program to an early completion.

Activities of Colonel Hastings in regard to the Omaha area base work are expected to remain under the Air Force Ballistic Missile Division, which is part of the Air Research & Development Command.

General Gerrity's organization is a unit of the Air Materiel Command.

Colonel Hastings will command the Air Materiel Command and the Air Research & Development Command detachments in the Omaha and Lincoln areas. These will be grouped into the Offutt-Lincoln Site Activation Task Force.

Colonel Hastings has been in charge of Omaha area missile work for the past year.

No is a native of Table Nob., and a former resif Aurora, Nob., and Lin-



Story at left.

Hastings...native of state.

OMAHA WORLD-HERALD

17 August 1960

Missile Man

Col. Vernon L. Hastings, in charge of preparing Omaha area Atlas missile bases, was named to direct the activation of the 12-missile Lincoln Atlas installation. He will work directly under the Air Force Ballistic Missile Center.

High Brass to Survey Area Missile Siles

in Washington, D.C., heads a After spending Friday tour-Lt. Gen. E. C. Itschner, the pervision. Army Engineers' No. 1 man

Engineers spokesman s a i d is under construction. this will be Gen. Itschner's Mason Travis, project manfirst visit to Lincoln in sev- ager for Western Construceral years and his initial in- tion Corp. of Sloux City, Ia., ballistic missile sites.

which are being constructed and delayed some on a few cimer, the group includes: It was explained that Gen. at this date.

party of Army and Air Force ing at least 6 of the 12 launch-An Omaha District Army tem of 12 launcher complexes generals scheduled to arrive er sites here, General Itsch-here Thursday night to look ner is scheduled to go to Sa-over Lincoln intercontinental lina, Kan., where another similar underground Atlas sys-

this date, installation of electronic equipment under Air Force supervision will begin. spection of the area's come cuitders of the Lincoln mass.

Pletely-underground missile sile system, Wednesday desystem of 12 launcher sites scribed the building overall neers spokesman said the ringing Lincoln.

visit all the missile bases some sites, ahead on others In addition to Gen. Ils-Ilschner regularly plans to "We are on schedule on the east and west coasts.

up of top brass from both

expected in "about 30 days." Engineers Ballistic Missile Construction under Army construction office in Los Engineers' contract must be completed on all 12 sites by July, 1961, Travis said. After



Gen. Itschner . . missile-looking

By Bess Jenkins

under Army Engineers' su- where we have run into sandy Maj. Gen. A. M. Minton, di- Christian F. Drever, Joseph Jenkington, and Maj. Gen. B. M. Minton, di- Christian F. Drever, Joseph Jenkington, di- Christian F. Drever, Jenkin Harry G. Woodbury, Jr., new Omaha Army Engineers; Coi. the Missouri River Division, Angeles; and Brig. Gens.

Schroder, based at Lincoln Air, Force Base as Omaha Omaha District Army Engineer; Col. Vernon Hastings, who has been in charge of the Offutt missile system and will remain at Mead to direct acsystem, and Lt. Col. Hal Army Engineers' supervising officer on the current missile

site construction.

Hastings, who is in charge of mand. preparing Omaha area Atlas launch bases, also will direct the activating of 12 intercontinen t a 1 ballistic missile sites surrounding the

Force Base. Maj. Gen. land, commander of Air the Force ballis-

Lincoln Air

tic missile Col. Hastings division, has notified Hastings of the additional assignment, the colonel's office said Tuesday.

Col. Hastings has his office at the Mead Ordnance Plant where planning and adminisvion of the Lincoln missile also is being handled.

stings will work directly under Maj. Gen. Thomas P. Gerrity, whose Air Force Ballistic Missile Center recently was given the job of expediting the Atlas base pro-

Hastings' activities in regard to the Omaha area base work are expected to remain under the Air Force Ballistic Missile Division, which is part of the Air Research and Development Command.

Gerrity's organization is a

Omaha A-Col. Vernon L.] unit of the Air Materiel Com-

Hastings will command the Air Materiel Command and the Air Research and Development Command detachments in the Omaha and Lincoln areas. These will be grouped into the Offutt-Lincoln Site Activation Task Force.

Hastings, in charge of Omaha area missio work for the past year, is a native of Table Rock, Neb., and a former resident of Aurora and Lincoln.

> "Star" 17 Aug 60 Nobraska City Missile

> Work Moves Forward

By ene Budig

phase of ork at the Atlas said. missile sit west of here got underway ednesday.

Concrete now is being

plete with only 12 ft. of earth | are two and one-quarter Nebrask City - Another vet to be moved, one official inches in diameter.

> yards of earth has been re- in the silo. moved from the silo and an estimated 46,000 cubic yards from the open cut.

Two mats of steel were Two mats of steel were trol center will measure up placed on the bottom of the to 4-foot in thickness. silo before the concrete pouring started.

The reinforcing steel bars than 7,500 cubic yards.

Four hundred tons of rein-An estimated 3,300 cubic forcement steel will be used

> Walls of the silo will be 3foot thick.

However, slabs in the con-

The actual concrete pouring project will require more

Nebraka News

poured in e control center, the heart the Atlas base. Directing the pouring operations is neth auritsen, resident nect for the Corps of E

neers. Earth ving perations near the sil are al lost com-

Top Army Engineer Official To Inspect Missile Sites

D.C., Lt. Gen. Emerson G. lina. Kansas, where another Itschner, is scheduled to ar- similar underground Atlas rive in Lincoln Thursday system of 12 launcher sites is night.

Heading a party of Air sile sites.

pads around Lincoln.

The Army Engines,'s top coln area musile sites, Lt. official from Washington, Gen. Preciner will go to Sabeing built.

According to an Omaha Force and Army generals, district Army Engineers Lt. Gen. Itschner is coming spokesman, the visiting parhere to look over Lincoln in- ty, along with Lt. Gen. Itschtercontinental ballistic mis- ner, will include Maj. Gen. A. M. Minton, director of The visit is his first rou- civil engineering for the Air tine inspection of the area's Force in Washington, D.C., completely underground mis-Brig. Gen. Alvin C. Welling, sile system of 12 launching newly-designated commanding general of the Army En-After inspecting the Lin- gincers ballistic missile construction office in Los Angeles; and Brig. Gens. Christian F. Dreyer, Joseph E. Gill and William Leonhard, all with the USAF.

> Joining the part in Lincoln will be Maj. Gen. Keith R. Barney, division engineer of the Missouri River Divi-sion, O mah a Arn.y Engi-neers; Col. Harry G. Woodbury, Jr., new Omaha Dis-trict Army engineer: Col. Vernon Hastings, who is in charge of the Offutt missile system and who will remain at Mead to direct activating of Lincoln's mirel's system, and Lt. Col. Hal Schroeder, based at Lincoln Air Force Base as Omaha Army Engineer supervising officer of the current missile site construction.



Lt. Gen. E. A. Itschner

OMAHA DISTRICT 18 August 1960 THE LINCOLN STAR LINCOLN, NEBRASKA

Nebraska City Missile Work Moves Forward

phase of work at the Allas said. missile site west of here got underway Wednesday.

Concrete now is being

Nebraska News

poured in the control center, the heart of the Atlas base.

Directing the pouring overations is Kenneth Lauritsen, resident engineer for the Corps of Engineers.

Earth moving operations near the silo are almost con-

plete with only 12 ft. of earth | are two and one-quarter Nebraska City - Another vet to be moved, one official inches in diameter.

> yards of earth has been re- in the silo. moved from the silo and an estimated 46,000 cubic yards foot thick. from the open cut.

placed on the bottom of the to 4-foot in thickness. silo before the concrete pouring started.

The reinforcing steel bars than 7,500 cubic yards.

Four hundred tons of rein-An estimated 3,300 cubic forcement steel will be used

Walls of the silo will be 3-

However, slabs in the con-Two mats of steel were trol center will measure up

The actual concrete pouring project will require more

OMAHA DISTRICT 19 August 1960 OMAHA WORLD-HERALD OMAHA, NEBRASKA

Generals Inspect Missile Project

Two top officers having to do with the nation's missile base program inspected the Lincoln Atlas project Friday morning.

Lieut. Gen. Emerson C. Itschner, chief of Army Engineers, and Maj. Gen. A. M. Minton, director of civil engineering for the Air Force, toured the project during the forenoon. Then, in a change of plans, they shortened the visit and went on to Salina, Kans., to inspect a similar job there.

An Army Engineers spokesman called the visit a "rou-tine inspection." General Itschner, he said, had not pre-viously visited the Lincoln job, which with the Salina project is the nation's first unitary missile installation.

OMAHA DISTRICT 18 August 1960 LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA

Contract Awarded

Martin K. Eby Construction Co. of Wichita, Kan., low bid-'der for constructing the missile assembly and technical supply buildings at Lincoln Air Force Base, now has: been awarded the contract.

The Omaha District Engineer said the bid was \$913.622 and the government cost esti-

mate, \$1,075,000.

These buildings will be used for checking out missile weapons designated for the area's 12. Atlas missile launcher sites.

1 Sep 60

STER MISSILE

A section of an Atlas missile (left) as it entered Lincoln. The Atlas is also shown in a raised position. (Star Staff Photo.)

By Louise Holbert

. An Atlas missile, standing 90 feet high is a pretty impressive sight.

It still looks impressive, broken into sections, loaded on 5 trucks, the way a stra-tegic Air Command Atlas missile enfered Lincoln Wednesday afternoon, com-

plete with a police escort. However, Lincolnites will get a chance to see the huge missile standing its full 90 feet, in the auto parking lot on corner of 10th and N. o pissile will be raised orizintal position hydraulically Saturday, Sept. and, in a public ceremony ettended by local govern-nental and Ar Force Offi-

izls:

It will be on display until September 9th.

The missile it in Lincoln on tour with the U.S. Air Force Orientation Group, based at Wright Patterson Air Force Base in Toledo,

The convoy, headed by Lt. Richard Conway is touring midwestern Atlas missile sites and SAC support bases.

Coming to Lincoln from Forbes Air Force Base in Wichita, Kan., the convoy will visit Schilling A. F. B. in Salina, Kan., and Dyess Air Force Base in Abilene, Tex. before completing its tour.

Display

The mission of this orentation group is to display various Air Force aircraft throughout the country.

The Atlas is 16 feet in diameter, and an operational model weighs 195,600 pounds.

It travels at a speed of 16,000 nautical, and 17,250 statute mile per hour, and carries a nuclear warhead payload.

ing incorporate 6 o

Work Ca Tangila

Area's Alasilas

Gmaha & — Army Englacers have finished their \$14,-276,300 worth of work on the Omahii area Atlas missile sites.

The Air Force and its confractors still must install electonic and other gear before the project—3 launchers each at Arlington and Mead, Neb., and Misseuri Valley, Iowa will be operational.

Except for signing acceptance documents, the engineer's portion of the work was wrapped up with a joint Engineers-Air Force inspection of a missile propellant-loading system at Missouri Valley.

The 16-month job was beset with difficulties: a severe winter, labor trouble, manufacturing delays, transportation difficulties and change orders that results because the bases were being built for a missile that itself was still in the development stage.

Lincolnite 'Good' Following Missile Site Accident

Creic-Hospital authorities here is a Tuesday listed as "good" the condition of Howard Neiswanger, about 40, of 5165 Holdrege, Lincoln.

A worker at the missile site under construction 6 miles west of Wilber. Neiswanger was injured earlier Tucsday when struck by a piece of pipe while at the bottom of the 175-foot hole, according to the Army Engineers.

Yeiswanger reportedly suffe ed a broken collar bone, cuts on the forchead and a possible neck injury.

He was wearing a welding mask and a so-called "hard hat" at the time of the accident. "Ster" 75760

"STAR" *8 Sep 60 In Grand Style

Blair, Neb.
Recent headlines say that
"Omaha Site Atlas Work is
Finished." Many of us poor
little taxpayers will draw a
sigh of relief at this pronouncement. Many business
people in the area will not
be too unhappy, either, because it was next to impossible to compete in the labor
pool with the lush wages
paid the workers on these

projects.

Here we had another of our now famous "cost plus fixed fee" extravaganzas. The Army Engineers do everything on a grand basis and with lots of "boondoggle." Money has never meant anything to them, or to the Air Force, either, for

that matter.

There was \$14,276,300 spent on this one Atlas venture. Everyone connected with it was paid fabulously and without justice or reason. These, we are told, are peace times. Why should there still be negotiated government contracts which still as during war encour-

age outrageous waste of money and material while guaranteeing profit? All this, while the farmer still gets criticism for what little he receives for producing the vital staff of life.

DEWEY NEMETZ

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 13 September 1960

York Missile Work Moves Ahead

Round-The-Clock Schedule Keeps 110 Employes Busy

York— Down goes the "silo" at the Atlas Intercontinental ballistic missile base, Site 7, located 5 miles west of York.

Sixty-five feet in diameter, the "silo" which will eventually reach a depth of 175 feet below the earth's surface, will house the Atlas missile in a concrete structure 50 feet in diameter.

was reached at approximate- tion should be easier. ly 85 feet depth.

the water level to prevent water from filling the excavation which began after pilings were in place.

much seepage of water as possible in the silo hole. Smaller pumps take out additional water seeping through the pilings.

After digging past the wa-At site 7, the construction ter level and barring any un-of the silo is past the under-fereseen complications, the ground water level which remaining 75 feet of excava-

As the huge cranes bite Pilings were driven past into the earth and bucket it out from the interior of the silo, the sides of the massive hole are supported by cor-

At least 12 pumps work place with curved "I" beams. Fry part of the installation continuously to prevent as To further guard against any be above ground. possible cave-ins, cement is All water pumped from the forced through small holes excavated silo is being resteel.

50-Foot Floor

Forms will be placed on the silo floor and cement will be poured to form a round hole 50 feet in diameter which will provide housing for the Atlas missile.

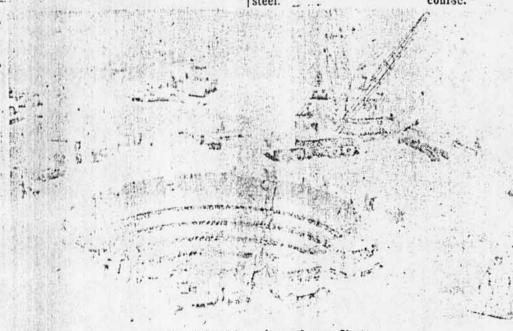
Rain or wet weather doesn't stop work at Site 7. Workmen are equipped with rain-protective gear.

Besides the reinforced concrete silo, there will be a concrete underground launch control center, the usual utilit; system, power and water lines and storage space for fuel and other facilities. All installations at Site 7 will be surrounded by fencing-nothing will be visible from Federal Highway 2 and 34 which parallels the site one-quarter

in the steel sheets, filling leased on farm land adjoin-any voids occurring behind ing the installation and is these sheets of corrugated allowed to flow its natural course.

Currently there are 110 men on the job, working round-the-clock, 24 hours in 3 separate shifts.

Site 7 is one of 9 Atlas missile bases scheduled for completion May, 1931, according to contracts let to a Sioux City. Ia., firm West-ern Contracting Corporation, which was awarded contracts for the 9 bases at a total cost of \$17,400,000.



Site 7, IBM base located near York.

OMAHA DISTRICT LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA 14 September 1960

Lincoln Evening Journal and Nebraska State Journal Wednesday, Sept. 14, 1960—F.M. 43

Contractor in helicopter (circled) . . . inspects a Lincoln Atlas site near Eagle.

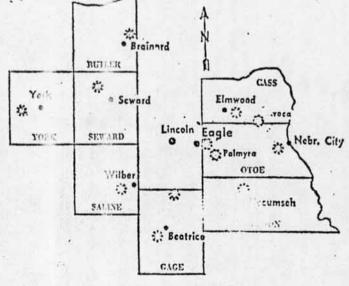
Atlas Site Builders Keep Up? With Helicopter Hops to Dozen Locations

Western Contracting Corp. officials responsible for constructing the Lincoln underground Atlas missile system finding it pays to be up and 175 feet down in the earth are down—in the air.

They do this by helicopter.
This Sioux City construction company, nationally known for its building of big bridges, big dams and big roads, never needed a whirlybird in any of these jobs.

"If we used anything, it was a regular aircraft to travel long distances from one job to another," said Project Manager Mason Travis.

The geographical layout of Western's first missile undertaking, however, differs. It is



The 12 sites around Lincoln.

still one job but in 12 pieces (launcher sites) that are widely separated, yet in one general area ringing Lincoln.

Covering them by car involves a circuit of more than 500 road miles.

Using a helicopter makes it possible to cover and do about 3 times as much supervision and trouble-shooting as would be possible if officials kept on the ground.

The first craft acquired soon after Western began the \$27 million job increased to two a week ago.

Now Travis and his No. 1 assistant, Malcolm G. Schaller, can go their different ways via what both say are time-savers for missile-builders.

Work on all 12 launcher, sites now is on schedule, looking toward meeting the Army Engineers' deadline of July, 1961, Travis said.

Excavating Is Past 85 Feet

York — Digging of the 50foot wide hole here to house an Atlas missile has gone beyond 85 feet, with 175 feet the goal.

The water level was reached at 85 feet and 12 pumps are at work to remove water. Pilings were also driven in place to help seal off water from the excavation.

Working 3 shifts a day, 110 men are on the job here. Completion is scheduled for May of 1951.

The York facility is known as Site 7.

End Weather and Changes In Orders Listed Among Reasons for Delays

By PETER BRAESTRUP Frechi to The New York Wine

OMAHA, Sept. 18 - Three Atlas missile sites under construction near here constitute a "horrible example" of the problems dogging the nation's high-priority missile base pro-

Without their complex launching-guidance-fueling bases, the intercontinental missies constituting the Unit'd States' firstline deterrent are uscless.

Dispersed on gently rolling cornfields north and west of Omaha, the three Atlas bases may be turned over to Strategic Air Command crews by March or April, 1961. Originally, overoptimistic schedules set the completion date for the end of this year.

"Considering what we've been up against, I think we've done pretty well. Essentially, we started from scratch," said Col. Vernon L. Hastings, the Air se site manager.

st of the shortcoming that plagues the three-year-old base-building program elsewhere, including police ignorance of the program's urgency and complexity, have eropped upon the form up out here.

Air Force and Arm Engineer supervisors, total 1 - r unions and a New Fork sta. Concressman.

To start 1 , the . 130,000,-

000 base jal. Coentr apnormal coordinate to blen.

An Attain Ingineer group, now heart by Col. John J. Haley, sur wised on contractor and y sub attractors during the "rok a mortar" phase. The All orea Sallatics Missiles Division, the the Colonel Hastings, walt on height nel Hastings, abalt and eight associate contractors and sixassociate control in the teen subconta ctor in the phase. Six other Fe all agen-cies were als inv. ec. The two building of uses a riapped. with as many \$2.00 workers involved at 200 k periods. An inspection u of the three sites, which re located at Missouri Van y, love and Mead and Arlington No. and Arlington. Note, meant a 151-mile at a bile to n unless belicopter and available.

HIGH PRIORITY: This Atlas missile base outside Omaha, Neb., is expected to be

operational in 1961. The three launching sites are at the end of the concrete paths. The building in center is the control and guidance center. The base building program has been plagued with troubles involving contractors and their military supervisors.

Change in Plans

Added to the zig-zags on the organization chart were abnormal technical requirements. For speed's sake, the design for the three bases and their nine in mid-1958, At Vandenberg Air Force Base in California, the first operational Atlas was not fired until last September, six months after the Omaha construction started. As a result, some changes had to be fed into the construction plans as

work progressed.
"It was a pioneering job," said Colonel Hastings. "We had to learn a lot of things as we went along." Here, as elsewhere, missile systems experts were in short supply. Only Colonel Hastings and one other officer on his staff had had substantial Atlas experience.

Installation of much of the delicate propollant loading system, a massi e jungle-: ym of piping and valves, had to be under conditions of almost surgical cleanliness.

"The task was grossly un-derestimated," said one site officer. "It look three months instead of thirty days."

Materials bottleneck s curred, further smarling sched-ules. Valves failed to meet specifications and had to be cut out and replaced. Farts of propellant loading systems were delivered four months after "need" dates. Fuel tanks were delivered from six weeks to fourteen weeks Inter: "H wife to Sta

New York Company Blamed

Part of the initial "flasco" was attributed by local Air Force officers to poor or in-adequate management by the Malan Construction Company, 2 Park Avenue, New York, This company, headed by H. J. Feldman an dhis four sons, was the prime mrick and mortar contractor for Omaha bases. Its performance, which company spokesmen stoutly defent, has been the subject of much controversy.

The Malan company was the successful low bidder, by less than \$5,000, with a \$12,870,000 bid for the Omaha job on March 2. 1959. The bidding was handled, according to routine Army Engineer procedures, by the Omaha District Engineer. After studying Malan's qualifications, the District Engineer recom-mended that the bid be reject-ed because of Malan's lack of experience with such major projects. Malan was notifed on March 23 that it had the right to appeal.

According to a company okesman, the Feldmans felt spokesman, that they had been treated unhad never before trackled a job of this size, but they pointed to a "fine record" of work for the Atomic Engrav Cormission

The Feldmans then asked a friend, Judge Carleton Roberts of Canandaluga, N. Y. to ob-tain the support of Representa-tive John Taber of Auburn, ranking Republican member of the House Appropriations Com-

Accompanied by Judge Roberts and Representative Taber. the Feldmans went to see the Army Engineers in Washington on March 25. They outlined

would be ore that in the make it needs.

General Dischner in recliately approved this new arrangement indicated that the company advance problem-solving to base entract. "No thank you," he said, "No thank you," he said, "we will not bid on this new Arrangement in section and recommended to the Omnha district officers that it be approved. Lialan-Grove got the base entract. "No thank you," he said, "we will not bid on this of the Nebraska American Federal Control of the Nebraska Americ

York converging firm of Grave, tractor requirements have been of the delay factors, labor stop-Sheperd, Wilson, & Knuge, Inc., tightened by the Army Engi-pages tie up top management," would be ore get in to make it

Taber, a spekerman for the Engineers and the Malan company, no "political influence" was involved and the appeal was decided solely of its merits.

Mr. Taber's participation was not made public when the engineers announced the change. It was disclosed last month by one and confirmed by the Congression, after Ariny denials.

Malan spokerman for the Engineers and the Malan company, no "political influence" was involved and the Malan company, no "political influence" was involved and the appeal was decided solely of its merits.

Mr. Taber's participation was not the only concians of the jurisdiction of the Grove was not the only concians of the jurisdiction of the Carpenters, Plumbers, and other the current installation and the current installation and schedule but other key items of the jurisdiction of the Carpenters, Plumbers, and other the current installation and schedule but other key items are as much as ten week late.

Besides interservice difficulties and contractor problems, work well not bid on this. Richard W. Nisely, president work, regardless of whether we of the Nebraska American Federation of the Verbaska American Federation of the Carpenters of the walkouts. As Air Force and Army Entributed most of the walkouts of the validation of the current installation and the current installation an

Ornaha television station KMTV and confirmed by the Congressman, after Ariny denials.

Malan spotesmen last week eited a severe winter. Nebraska's worst in fifty years and continual change orders as reasons for delay. Conceding the justice of these explanations, Air Force officials also cite poor contract, supervision by Malan. "Bad weather and change orders account for 60% seven the many first work and form four to seven these says 90 per cent of the Comaha base job was subcontracted to some forty subcontracted to some forty subcontractors. Malan said last week that together with Grove, it had supplied 45 per cent of the work and materials and that the formation progress, omaha is not construction.

The dispersed sites came to be extremely and the cleanliness required in missile cleanliness required in missile system construction.

The dispersed sites came to be work and materials and that the contractors are the contractors and the cleanl

work and materials and that local carpenters, plumbers, and only twe-ny-five subcontractors were used.

New ritioism, the Superior Electric Company, of Perth Amboy, N. J. was discharged by the Army Engineers as a major subcontractor, for delays, a toam of outside technical experts was brought in by the Engineers to make tests and recommendations. Four minor, subcontractors are suing Malan, and major subcontractors, the Eleamfitter's union protestions that some of the work done was unsatisfactory, the Engineers announced last June that Malan was correcting "deficiencies" in fuel tanks, slabs under launching buildings, and concrete predestals under fuel lines. These deficiencies, malan spokesmen contended, were "minor" when ranged against the size and difficulties of the job.

After the Pentagon admitted delays in the missile base program on July 5, the Army ordered an a investigation of the Comaha lags. The results have not been made public, but constitution there is not been made public, but constitution they seem work while the delays in the missile base program on July 5, the Army ordered an investigation of the comaha lags. The results have not been made public, but constitutions they workers without cause.

After which took places arose. One inclient, which took places arose. Universities in distention to program of outside technical exity and they are made to a work site with a load of the contract, work is stoppages will entitue. South of onnaha, circling Lincoln, Nebraska's Capitol City, twelve Atlas "hardened" launching bases are being but that that chore belonged to the testamfitters union protest to the Steamfitters union protest to the steamfitters union protest to the testamfitters union protest. A few called and three-month the submitted with wry amusement, A few and work steed by Army officients with the lines to the receiving tang when a member of the receiving tang when a member of the testamfitters. A brief walk and the core belonged to the testamfitters union protest the submitters. A brief wa

as Mr. Finnell saw it. Two days later, the men were reinstated, and the laborers were back at work. Mr. Finnell and Western finally signed a no-strike agreement.

Said Slim Ramold, a shop steward on Atlas Site No. You have to have the union 1: acting together. That's the way it's always been. This is just like any other job." What about strikes hampering the defense here to make money. Western's here to make money and I guess we're here to make money. Nobody wants to walk off the job, but that's the way it is.'

None of the civilians involved seemed to comprehend the importance of the missile base program. Local newspapers pay little attention to the sites. An Air Force office commented: "They're no different from the general public. Nobody's telling them that we're in a tight race with the Soviet Union.

Mr. Finnell of Local 1140 said in an interview that walkouts "have been the only way we've been able to deal with them." He cited inexperienced suprvision and the strain of sevenday work weeks as causes of wildcat stoppages, "You can't drive people," he said. He had praise for Western's top man-agement, but suggested that a full-time labor coordinator was needed.

"I've got holes down there," he said, "where there's never been any disputes." Unless changes weer made, he said, "when they get with the crafts later on, they'll have nothing but trouble."

LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA

Friday, August 19, 1960-P.M. Lincoln Evening Jonenal and Nebraska State Journal

Missile Bases

Sites Are Viewed by Itschner

By Bess Jenkins

"Aside from a war, this is the most urgent of jobs for

"No, I'd say this job of building missile bases for the Air Force has the same urgency as wartime work.

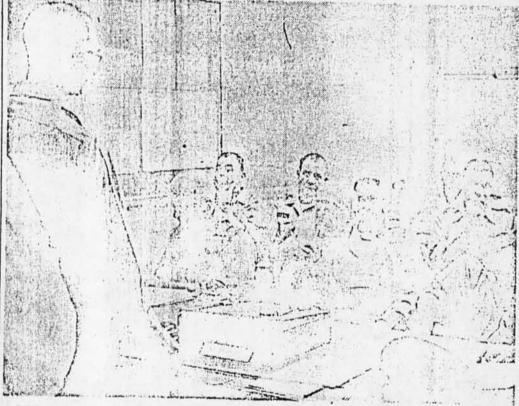
These two comments - in two tempo - came from Army Corps of Engineers' chief, the 3-star General E. C. Itschner of Washington, D. C. as he took rapid strides toward an awaiting Army helicopter.

It and another identically large chopper took the Pentagon-based general and his party of about a dozen general officers and assistants to 3 of Lincoln area's 12 Atlas missile launcher sites.

The group, representing the Army and the Air Force identified with the construction of the nation's missile bases, arrived in Lincoln from the east and west coasts Thursday night.

The visit was described as a routine one of regularly scheduled inspections which Gen. Itschner is making where his Engineers are constructing the missile bases.

roads back in 1924. There tion. have been many of those, many dams since. But this is crete the most urgent of all."



These will form the con. pervision will begin. crete-lined silos or undermissilos.

GENERAL I BRIEFED-A glass-paned door permit! I this photograph of the briefing give by Col. Harry Woodbury (standing), (maha District Army Engineer, to Lt. G a. E. C. Itschner (pencil in hand), No. 1 an in the Army Engineers Corps, and other top brass in the Air Force and Army, her Friday to tour some of the Lincoln area missile launcher sites. Maj.

York, Wilbur and Cortland Work on the all-concrete in the party with Gen. were the 3 sites seen by Gen. launch control center (con-Itschner were Maj. Gen. Itschner and hi group, both necting to the missile siles) A. M. Minton, director of Gen. Itschner, in the Army from the helico, and from which will be 45 feet under-civil engineering for the Air ground is under way at the Force in Washington, D.C.

> of the 175-foot mining opera. equipment under Air Force Ballistic Missile Division su- Force Base soon after noon

> ground nests for the actual ager for Western Contracting another Atlas underground

presently division engineer of the Missouri River Division, Omaha District Army Engineers, will go to Washington, D.C., next month for his new assignment as deputy Chief of Engineers. Col. Vernon Hastings, (hand to his face), is in charge of the Offutt missile system and has been assigned the same duty for the Lincoln project by the Air Force Ballistic Missile Division.

Corps since 1924, symbolite ground.

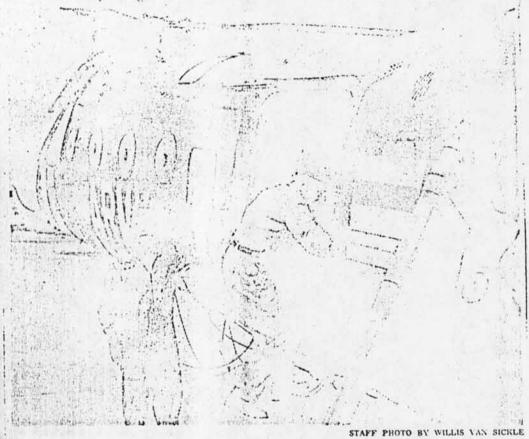
York, known Western Controlling Corp., who have the meers' building a tract; Williams to help build the Alaskan roads back in 1924. There is and from the helico, the ground is under way at the Force in Washington, D.C., Wilbur and Cortland sites. and Brig. Gen. Alvia C. Wellows and Cortland sites. and Brig. Gen. Alvia C. Wellows and Cortland sites. In the commanding system by the Army Engineers is scheduled for July, neers' newly set up Ballistic 1961. At that time the job of Missile construction office in the electronic or "black box" Los Angeles.

The group left Lincoln Air pervision will begin. Friday for Salina, Kan., Mason Travis, project man- where they were to inspect Corp., has said the overall missile system, began 45 days

OMAHA DISTRICT 19 September 1960 LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA

Three Atlas Bases Inspected

Army Engineers (Lief Tours State Sites, Page 8



GENERAL GOES UP—Three
12 underground Atlas missile
sites were visited in a matter
the Army Corps of Engineers
Gen. E. C. Itschner, after he
graphed here climbing into an

mcoln's mincher ours by icf. Lt. photony helicopter at Lincoln Air Force Base. The No. 1 Engineers man did the same later at another Atlas underground site near Salina, Kan. These visits will be "SOP" (standing operating of procedure), the 3-star general indicated.

"THE NORFOLK DAILY NEWS"
NORFOLK, NEBRASKA
Monday, September 26, 1960

FIGS MESSELO SLIGS LES BUSY PLOIGES

Capid Face
Daing Sat
Pu Buil Lars

By EHL HENEL

ATLAS MISSILE SITE — Under the wary eyes of the U.S.
Army Corps of Engineers, construction is taking place at a
rapid pace on 12 Atlas Missile
sites in eastern Nebraska. The
12 sites, at Brainard, Se w a r d,
York, Wilhur, Eagle, Beatrice,
Nebraska City, Tecumsch, Elmwood, Avera, Pallayra and Cortland, are ine \$23,000,000 'complex'
which will protect this part of
the state from attack and provide retailatary power in case of
attack.

The Atlas sites of this, complex are not the first to be built in the nation, but are unique in that they are the first in the nation to be built underground. When construction is completed, the sites will be covered and landscaped and will hardly be entried site visited by the Daily News, is the Western Contracting Corp. of Sioux City, Ia.

NOT SECRET

The sites are mi secret. You can visit them take pictures. not to take But you are a pictures showing the horizon or other identifying points so that "fix". Howanyone can follow ever, since there are no restrictions in the are and nothing to keep anyone from walking right up and taking a picture, it is doubtful that the request would have any offer on keeping the site a sec et. However, taxpayers may feel for if there appears to be restrictions.

Each of the see has only one missile. The see will be housed in an unright position, in a 'hole' or tane, rounded by the forced concrete walls.

Nearby, cach site, is a launching common where the permanent crew can service and lambde their weapon at a moment motice. At each site, an adequal service road is built to the permanent crew can at a moment motice. At each site, an adequal service road is built to the permanent crew can be into the pit on short notice.

In charge of the Beatrice, Site 5, is R. W. Hadman, project engineer, of a Corps of Engineers. On mapletion of construction the sites are turned over to the U. Air Force Atlas Missile Department for operation and maintenance.

BEGUN YEAR AGO

The installation at Beatrice is three miles west of town on the Paul Claussen farm where surveys began more than a year ago.

So far, there have been no injuries in the construction work and one of the reasons is the extreme safety precautions in force at all times. All workers and even visitors, wear helmets when in the area. Supervisors are everywhere, watching every move made by the workmen, and stressing safety. Their theme is applicable, for after all, even the missiles themselves, are safety measures on a larger scale.

Smale Journal 27 Oct 60 Propress on Strike ni Claimed

Brainard (UPI) - A spokes-, the strike, which involves some man for Western Contracting 40 workers. Co. of Sloux City says he be- Nutt. 50, was injured Tueslieves some progress is be-iday when 3 men atta ked him ing made in a strike at the as he tried to take a picture

Atlas missile base site near of a picket sign. But r Counlle said he was hopeful that seeking the 3 men evolved.

some settlement might be

reached later in the day. The Laborers Union Local 1140, which is pickeding the site, remained off the job for the third consecutive day of work stoppage. The union has complained of lack of safely measures.

The Western firm wired Secretary of Defense Thomas Gains, asking h m to take

LINCOLN STAR 12 AUG 60 1.104 MEN WORKENS ON IN ATLAS SYSTES

A total of 1,104 men are in 11 of the 12 locations.

Presently helping to build Workers are now preparing Lincoln's underground Atlas to pour concrete for the missile system.

But these aren't all the

According to Mason Travis of Western Contracting Corp., builders of the missile system. a peak of about 1.500 workers is still to be reached by the end of construction expected to come next July.

Progress: Normal

Travis said construction work is progressing at a nor-

Shaft mining is being done | said.

shafts at the Tecumseh site.

Concrete is being poured: for launch control centers at Eagle, Nebraska City, Te-cumsch, Cortland, Beatrice and Wilber.

November through March of 1931 crews will be crecting structural steel, installing mechanical and electrical equipment and propellent loading systems.

Concurrent work operations are being carried on among all 12 missile sites, Travis

zha World-Herald, Thursday, Oct. 27, 1960

rest Sent

C a or Appeals Danse Chief

I's News Scrvice. ' i cb.-A contracay appealed to tor Therefore of Defense to the and strike delaying osti ion of a launchan Atlas intercon attal allistic missile.

is, project manage ern Contracting Co eny. ix City, Ia., said asl that the Departof E fense remove Hn nd place the adatic of Laborers 1140 in charge of Political ie" labor repre-

am to Defense tes followed an atta Tue ly on one of the con my's concrete superin-Ms, des Nutt.

7 3 assaulted Mr. Nut as he attempted to phot raph Laborers Union Local 1140 picket sign. One of the assailants kicked and stamped on Mr. Nutt while he

Cel Minahan Reports Here "JC" N'L" 5 Cct 60 Takes Charge of Allas Sites

Col John E. Minahan has reported to Lincoln as the new Army Engineer in charge of construction of Lincoin's 12 Atlas missile launcher siles.

Col. II. G. Jr., Omaha District Army Engineers chief, said Col. Minahan replaces Lt. Col. Hal W. S c h r oeder who has Col. Minahan been Lincoln



area engineer for the Corps. Col. Schroeder will remain nere as Col. Minahan's assist-

The new Lincoln Atlas engineer, who will supervise the construction by Western Contracting Corp. of Sioux City, ia, had his last assignment at Sandia Base, N.M. He was director, staff division, of the Field Command of Defense Atomic Support Agency.

A West Point graduate in 1940, he received a master's degree in civil engineering from the Massachusetts Institute of Technology in 1948.

During World War, II Col. Minahan served with the Army Engineers in Iceland and Europe. He is a graduate of the U.S. Army Command and General Staff College, Ft. Leavenworth, Kan. Before his Sandia, N.M. assignment, he served from 1955 to 1958 in the office of the deputy chief of staff, operations, headquariers. 1. epartment of the Army, Washington, D.C.

New Colonel Assigned For Atlas Building

Army Engineer Col. John E. Minahan has been assigned to supervise Lincoln area Atlas missile launcher construction.

Omaha District Engineer Col. H. G. Woodbury Jr. said Minahan will Lt. replace Col. Hal W. Schroeder as Lincoln area engineer for



Corps. Col. Minahan Schroeder will stay on as assistant.

Col. Minahan comes from Sandia Base, N.M., where he was staff division director of the Field Command DASA (Defense Atomic Support Ag-

The colonel, his wife and 3 children will live in Lincoln.

OMAHA DISTRICT 18 September 1960

OMAHA WORLD-HERALD OMAHA, NEBRASKA

Missile Site Men Needed

Corps Would Employ More Engineers

World-Herald Lincoln Bureau, 501 Federal Securities Building. Additional engineers and inspectors are needed for missile base construction in the Lincoln area, the Corps of Army Engineers announced Saturday.

Lieut. Col. Hal Soder, area engineer in charge of construction, said the corps is prepared to hire qualified civilian personnel who apply at his office.

Most urgently needed, he said, are supervisory and inspection personnel with education and experience in mechanical, electrical and civil fields.

He listed these job classifications and salary ranges:

-Construction manage-ment engineers, \$7,560 to \$8,955 a year, experienced in management engineering duties incident to heavy construction activities.

-Construction engineers, \$6,435 to \$7,560 a year.

-Construction inspecters. \$5,355 to \$7,560 a

The area engineer's office is located in building No. 644 south of Lincoin Municipal Airport. Applications also may be made by mail to postoffice box No. 1744, Lincoln.

OMAHA DISTRICT SUNDAY JOURNAL AND STAR, LINCOLN, NEBRASKA 16 October 1960

Atlas Sites Turned to Engineers

Omaha-Responsibility for construction of 12 Atlas Intercontinental Ballistic Missile launchers in the Lincoln area has been turned over to the Army Corps of Engineers' ballistic missile construction office.

The sites are now 33% complete.

Col. H. G. Woodbury Jr., Omaha District engineer. handed the construction responsibility to Col. Woodrow Wilson, director of the Atlas "F" category of missile bases of which the Lincoln complex is a part.

The change is part of a new program to put missile base construction under one author-

The launching sites, estimated to cost nearly \$24 million, will surround Lincoln on approximately a 50-mile radius. Each site will contain facilities and a launcher for one Atlas missile.

Construction at each site will involve 720,000 cubic yards of excavation, 80,000 cubic yards of concrete, 1,450 miles of reinforcing steel weighing 10.056 tons, 350,000 pounds of ducts, 15 miles of piping and 4,524 valves of varying sizes.



Wilson . . . new hat.

OMAHA DISTRICT 6 October 1960 COUNCIL BLUFFS NONPARE!L COUNCIL BLUFFS, IOWA

As Part Of New Program ...

Change Of Command For Aflas Missile Launchers

chers in the Lincoln nea -now ployed.

Col. H. G. Woodbu the construction resp bility to sizes. Col. Woodrow Wilson rector of Pioneers Construction the Atlas F category of missile plex is a part.

the plan of the U. S. Air Force operational . Ballistic Missile Center iso headquartered in Los Angles, Brig. ters.

One Atlas Each

The 12 launching star, which will cost nearly \$24 r ion, surone Atlas missile.

deep. The control cent is are 40 it is finished. feet in diameter and 27 et deep. All structures will be wried to the ground level when impleted, leaving only access ros visible. Col. Woodbury said is job is

OMAHA - The 12 Mas Inter- now at peak construction activity continental Ballistic I sile laun- with some 1,500 workers em-

33 per cent comple - were The 12 launcher-complex inturned over to the Co of Engi-volves 720,000 cubic yards of exneers' Ballistic Miss | Construc- cavation, 80,000 cubic yards of contion office of Los Ar les Satur- crete, 1.450 miles of reinforcing steel weighing 10,056 tons, 350,000 r., Oma- pounds of ducts, 15 miles of pipha District Engineer, anded over ing and 4,524 vlaves of varying

The Omaha District of the Army bases of which the J oln com- Engineers pioneered construction of operational missile bases in This change of command is part August, 1953, when it started buildof a new program est dished by ing the first squadron of Atlas the Chief of Engineers to put mis- launchers at Francis W. Warren sile base construction under a Air Force Base near Cheyenne. single authority, pattered after Wyo. This squadron is now fully

The Omaha Atlas complex with three launchers each at Mead and Gen. A. C. Welling commands the Arlington, Neb., and Missouri Val-Corps' new construction leadquar- ley, Iowa, was turned over to the Air Force for installation of "black box" equipment last month.

The Lincoln complex is the third to be turned over to the new cenround Lincoln on appromately a tral contruction agency under 50-mile radius. Each sit will con- Gen. Welling. The first two were tain facilities and a la acher for Titan ICBM launchers at Lowry AFB, Denver; and Ellsworth AFB Since these are "hard and" sites Rapid City, S.D. A third squadron the missile launchers to being of Atlas launching facilities at constructed in undergound silos Warren AFB, will remain under 57 feet in diameter and 174 feet Omaha District supervision until

14 Sunday World-Herald, B Omaha, Oct. 16, 1960

Missile Base Job Shifted

Lincoln Project Now Under New Office

The Lincoln Atlas missile base job, now one-third complete, was turned over to Army Engineers' Ballistic Missile Construction Office of Inglewood, Cal., Saturday.

Col. Harry G. Woodbury, Jr., Omaha District engineer, handed the responsibility for carrying out the building of the 12 Atlas launcher complexes to Col. Woodrow Wilson, director in charge of building for Atlas F missiles.

The turnover was in connection with a new program
stablished by the Chief of
rmy Engineers to put missile base construction under
a single authority. It is patterned after the plan of the
Air Force's Ballistics Missile
Center, also headquartered at
Inglewood. Brig. Gen. A. C.
Welling is commander of the
new construction set-up.

Cost 23.9 hallion

The job, in which the missiles are spotted on underground unitary sites, surround Lincoln at approximately a 50-mile radius. Cost of the job is \$23,900,000.

The work involves 720 thousand cubic yards of excavation; 80 thousand cubic yards of experience of concrete, requiring approximately 750 thousand square feet of forms, 10,056 tons or 1,450 miles of reinforcing steel, 350 thousand pounds of ducts, 15 miles of piping and 4,524 valves of varying sizes. Heart of each job is a missile "silo" 57 feet in diameter and 174 feet deep, or large enough to hold ome office buildings.



Symbol of Atlas base construction responsibility is a hard hat surmounted by a missile . . . Here it is donned by Colonel Wilson as Colonel Woodbury (center) and Col. John Minahan, Lincoln area engineer, look on.

Colonel Woodbury said the job is now at peak construction activity with some 15 hundred workers employed, including carpenters, electricians, ironworkers, truckers, laborers, engineering and supervisory personnel.

Others Transferre

The Lincoln job is the third to be turned over by the Omaha District office, which pioneered construction of the nation's operational missile bases. The Titan installations at Denver, Colo., and Rapid City, S. D., were transferred last month.

The Squadron No. 3 job at Cheyenne, Wyo., now nearing completion, will be finished under Omaha District supervision. The district also built the first squadron at Cheyenne, which is now operational. The Omaha Atlas job was turned over to the Air Force last month.

usker Winds Won't Missile Launching

By Jin Toodson

When the ebraska wind back: blows will the Atlas missile still go?

"We can fire in anything short of a made, without effect," state Col. Vern Hastings, commander of the Offutt Lincoln Site Activation Task Force, peaking to al the student ction of the American Solety of Mechanical Engineer at the University of Nebra.

The airman old the group of the history, the operation, and installation of the Atlas and the sites in the Lincoln-Omaha area ow under construction.

A question aswer session followed his brief talk.

No Dep Here

would drop area, Col. "These star likely in the over which have been mine where drop and se cur in spar gions."

water table Seward and

Asked when in Nebraska the fuel tan and propulsion stages of the 3-stage Atlas fired from this tings replied: will not drop in Nebraska but more than to predeterse stages will o have this ocpopulated re-

One stude engineer posed the question how the construction ci on these Nebraska sites ombat the high such areas as ork, to which

' | the colonel's answer came

"Actually, last month we had two of the deepest swim-

ming pools in Nebraska."
He added: "The engineers and contractors did expect such difficulties, but it is far casier and more economical to pump water out while con-Task Force, peaking to a structing the concrete silo Wednesday noht meeting of than to build another Lincoln Air Force Base in the area needing support. You can pump a lot of water for that price!"

Hastings also told the group that the Nebraska squadron is expected to be operational within a period of approximately 30 months.

Concerning security, the Col. Hastings said there will be "a heavy wire fence sur-rounding the area, with electronically operated gates, as well as a periscope, but probably few security personnel visible to the public." This factor is "primarily up to SAC," he concluded.

Col. Hastings is presently stationed in Wahoo, in charge by cross. We of the construction, installation, and checkout of the missile sites and missiles in the Lincoln-Omaha area.

18 The Lincoln Star Thursday, October 20, 1960

Lincoln Air Force Base officials were host Wednesday to two of Strategic Air Command's top generals. General Thomas S. Power, SAC Commander-in-Chief and Lt. General John P. McConnell, Second Air Force Commander.

General Power spoke to a meeting of Lincoln Air Force Base officers in the base theater on Strategic Air Command's mission and its role as the free world's major deterrent force in the present world situation.

The two generals were given a briefing on the status of the Lincoln Air Force Base Atlas Missile Complex, and short tour of the base.

Prior to departure shortly before noon, General Power and General McConnell took tiime to congratulate the four distinguished crew chiefs of the Lincoln Air Force Base "Century Club-crew chiefs whose B-47 medium jet bombers have made at least 100 consecutive on time takeoffs without a deviation or cancellation.



GENERALS, CI

Members of latest in ai-Chatting (lef SSGT Robert SSGT Kenne

the Lincoln Air Force Base's "Cen Club" discussed the news here Wednesday. right) are crew chiefs Bergene, 120 Sorties; W. McGee, 100 Sorties;

SSGT Steven L. Vensky, 106 Sorties; SSGT James R. Yandle, 163 Sorties; Gen. Thomas S. Power, Lt. Gen. John P. Mc-Connell and Col. Thomas G. Corbin. (Photo Special to The Star)

Sand, Water Woes Put 5 Missile Sites Behind

Sand and water have been somewhat, the officer said. the major enemies of the Lincoln area Atlas missile site up, which has put the comworkers who are still aiming plex construction as a whole

Col. Frederick Marsh, missile weapons officer at the unions. Lincoln Air Force Base, reviewed the Atlas work situation in detail Thursday, stat- which could bring the coning 7 of the 12 sites are being completed alread of the schedule, and explained that schedule set up Aug. 1 by officials were considering Western Contracting Corp.

ard area sites brought work low for the past delays. to a near-standstill for alworkings.

leviate the water problem ance in defense.

A third minor cause of slowat a completion date which behind one-third on its schedwould make the 12 sites "op- ule of the past two months, erational" by next summer. is labor trouble, including jurisdictional disputes between

Col. Marsh forecast a speedup in the coming months struction program back on either incentive pay for on-Major troubles which de-veloped at the York and Sew-of the work schedules to al-

The missile expert, speakmost a month as water seep- ing before the Sertoma Club, age into the excavation re- cited the present lead which quired pumping as much as Russia holds in the missile 13,000 gallons daily from the race and reviewed the overall picture of nuclear-powered A strata of clay may al- weapons and their importOMAHA DISTRICT 26 October 1960 OMAHA WORLD-HERALD OMAHA, NEBRASKA

Man Is Hit at Missile Base Site

Picket Objected to Photograph

The World-Herald's News Service.

Brainard, Neb.—A supervisory employe of a construction company was knocked down and beaten Tuesday by a picket at an Atlas intercontinental ballistic missile launching site construction project near here.

Hospitalized after what a spokesman for the Western Contracting Company of Sioux City, Ia., termed "an unprovoked, brutal attack" was Jim Nutt, about 50, concrete super intendent for Western.

'Kicked and Stamped'
Mason Travis, project manager for the construction firm on the 12 sile-type launching positions being constructed in Southeast Nebraska, said Mr. Nutt was attacked by threemen as he attempted to photograph a picket sign.

graph a picket sign.

"He was knocked down several times and kicked and stamped on by one of the men." Mr. Travis declared.

Efforts to identify the man are being made so that as-sault and battery charges can be filed against him, Mr. Travis said.

Construction Halted
The Brainard project
being picketed by Omaha
Local 1140 of the Laborers

Local 1140 of the Laborers Union, the construction com-

Base Site Pickets appeared at the site at 6 a. m. Tuesday carrying lanners protesting "s a f e t y conditions" on the job. All construction was halted.

Mr. Travis said neither his company nor the Army Engineers which is supervising construction of the missile facilities, has received a compaint from the union about the hazards.

"Cause Uncertain"
"We se not certain of the retual reason for the stopise. We never are with that leal," said Mr. Travis. "We link it is over the firing of lireman for incompetence."

Air. Travis said there was picketing or interruptions activity at the 11 other

His company, he said, is appealing to the national headquarters of the Laborers I mion and other labor organizations to reach an early settlement of the issue at Brai-

OMAHA DISTRICT 26 October 1960 LINCOLN EVENIED JOURNAL LINCOLN, NEDRASICA

Gates Is Asked to End Brainard Missile Strike Pickets on Site Access Roads: 40 Workers Fail to Show Up

Western Contracting Corp. has called on Secretary of Defense Thomas Gates to "take necessary action to end a strike" at the Brainard missile site.

This is one of 12 sites in the Lincoln missile system now under construction and the only one hit by pickets of the

Laborers Union 1140.

Western, according to Project Manager Mason Travis, company's concrete superinalso has its attorney attempting to seek an injunction to take a picture of the signs remove the pickets. They still, carried by pickets which rewere on the access roads to the Brainard site Wednesday, Travis said.

Travis, Lt. Col. Hal Schroeder, assistant to the Army Engineers area engineer in Lincoln, and news media were not able to reach business presentatives of the labours union by Wednesday no. 1.

No Workers

Travis' telegram for strikebreaking action to Defense Secretary Gates followed a day in which this action took place at the Brainard site:

-Pickets from the laborers union arrived on the site access roads at 6 a.m. Tues lay.

.-None of the 40 workers currently working on the site showed up for work. This site is between contraction phases. All of the concrete lining up to the top of he deep silo has been completed and the next work is brokfilling and steel installation.

-Five truckloads of needed steel were not permitted to pass the pickets.

-Site Supt. Carl I fill asked and was removed from the Brainard silo launcher "in deadly fear for his safety and that of his family after

-James Nutt, one of the tendents, later attempted to ferred to unsafe working conditions."

by car, and was knocked ion since the project began. down, beaten and kicked. Travis said Nutt was treated at the Lincoln Clinic and now is at home recovering from "a bad beating."

-Pickets still were on the Brainard access road Wednesday and no work at the site was going on. A siteclerk and several administration people were still on the spot.

Travis said his wire to Gates also asked that the depart-ment have the picket lines removed and that administration of Laborers Union 1140 be placed in charge of responsible labor representa-

'No Reports' Neither Travis nor Col. Schroeder had received any reports of unsafe conditions or any complaint from the

union, both said.

Col. Schroeder said the Army Engineers' only concern in this strike is to try to get the two parties together to settle any differences.

"We had a representative threats. He fired a foreman at a trade union council meet-last week for incompetence." ing the other day and noth-

ing was said about lack of safety," Col. Schroeder said.

His telephone attempts to reach labor representatives finally resulted in sending a telegram to the offices in Lincoln, he continued.

Checked

The Army Engineer assistant also said the Corps' inspectors several days ago checked out the Brainard site for safety.

"We would like to get to the bottom of this allegation that the job is unsafe," Col. Schroeder said. Making sure the job is safe on all 12 sites is an Engineer Corps responsibility, he added.

Travis recalled that the only work stoppages Travis said Nutt then was through labor difficulties on attacked by 3 persons who the Lincoln sites has been ochad been sitting in a near- casioned by the Laborers Un-

Labor Dispute Hus Violence At Brainard Missile Site

picketing Tuesday at the Atlas missile site near here broke out in violence, injuring one official of the West ern Contracting Corp. of Sioux City, Ia.

was James Nutt, about 50, turbance. concrete superintendent for

the company.

private detectives, and was flown "out of the state for his own protection," accord-ing to Jack Tarr, editor of the Butler County News-Press of David City.

It was believed that Estill was blamed for the firing of a foreman Monday. The superintendent was not expected to resume his dulies at

the Brainard site.

Mason Travis, project engineer for Western Contracting, said that pickets from Omaha Local 1140, faborers union, appeared at the site early Tuesday with banners protesting "safety con-ditions" and all work stopped.

Travis said Nutt was injured by a "goon squad" sent to the site, and not by the workers. Identity of the man who struck and knocked down the superintendent, and then reportedly kick d him, was not known, county enforcement officials said.

'Kept Trucks Cat'

Butler County Shoriff Joe Meysenburg reported that two pickets who remained at the site kept 5 truckloads of steel from entering. He said that he expected the trouble to continue Wednesday.

Travis stated that neither; Western Contracting nor the Army Engineers supervising the work had received any complaints on the working conditions at the Allas site. He added that the real rea-

son for the trouble may be the firing of a union member for incompeten e. No un-

Brainard - A strike and ion official has contacted him about the work stoppage, he said.

The company, Travis said, has had numerous work stoppages by the local and 15 appealing to national head-quarters of the union for a Hospitalized for treatment quick settlement of the dis-

The Brainard site is the nearest to completion of the 12 Atlas bases ringing the Site Superintendent Carl Lincoln Air Force Base. As Estill was escorted out of Friday, Army Engineers town by an armed guard of officials reported that the base was 42% completed, and that no major problems with sand or water had been exprienced during the excavation period.

Missile Site Strike

In an attempt to end the more the pickets. They were sites in the Lincoln missile who was struck and bester. strike which continued still on the access road to the Wednesday at the Brainard Brainard site late Wednesday, missile site. Western Con-tracting Corp. of Sioux City, la., has called on Secretary Wednesday night reported of Defense Thomas Gates to that the Pentagon said Gates "take necessary action to end had not yet received the comthe strike."

Contracting is also attempting | plaint. to seek an injunction to re- Brainard is one of the 12

plaint from the firm. No com-According to Project Man-ager Mason Travis, Western Gates has received the com-

tion and the only one hit by pickets of the Laborers Union

Couldn't Be Reached

Business representatives of the laborers union could not be reached by Travis or Lt. Col. Hal Schroeder, assistant to the area engineer of the Army Engineers in Lincoln, by late Wednesday.

According to Bob Dolen, site clerk at Brainard, work was completely halted by the strike and picketers allowed no materials including 5 truckloads of steel to be delivered.

Site Superintendent Carl Estill was removed from the Brainard silo launcher "in deadly fear for his safety and that of his family after threats."

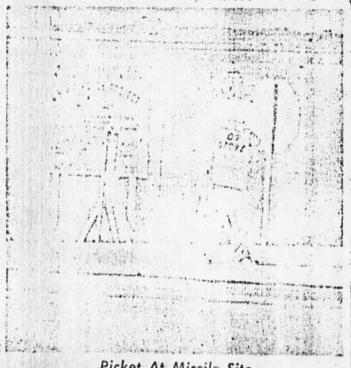
system now under construc- Tuesday while attempting to take a picture of the stass carried by pickets, was re-covering at home Wedne. after treatment.

No Report Received

Neither Travis nor Col. Schroeder had received any reports of unsafe conditions which the picket signs indicated or any complaint from the unions prior to the picket-

"We had a representative at a trade union council meeting about a week ago and nothing was said about lack of safety," Col. Schroeder said.

Travis said his wire to Gates requested that the department have the picket lines removed and that administration of Laborers Union 1140 be placed in James Nutt, a concrete charge of responsible labor superintendent for Western, representatives.



Picket At Missile Site

Shown above is a picketing labouer on the access road to the Brainard missile site. The photograph was taken from across the road after the picketer refused comment and objected to the camera. (Star Photo).

To End Strike

The Western Contracting Corp. of Sioux City, Ia., has called on Secretary of Defense Thomas Gates in an effort to end the strike at the Brainard missile sitc. For story and picture sec page 48. 7.1.1

Missile Site Work Resumed

Injunction Sends Pickets Away

Work has been resumed at the Brainard missile site after union pickets moved out under a temporary injunction served by the District Court for Butler County.

This injunction restrains Omaha Local 1140, Laborers Union, from striking or picketing at any of the 12 Atlas missile sites in southeast Nebraska.

Mason Travis, project manager for the Western Construction Corp., building the missile base, said there will be a hearing Tuesday morning in David City District Court.

The union struck Tuesday against the company. Signs carried by pickets indicated the dispute was over "safety conditions," but Travis sain he believed it probably was over the discharge of a foreman for incompetence.

Hearing Planned For Injunction

Brainard (A) — Work was resumed Friday at the Brainard Atlas missile site after union pickets moved out under a temporary injunction issued by the district court for Butler County.

A hearing on a permanent injunction is scheduled Tuesday in the district court at David City.

Chamber To Hear General—Brig. Gen. William R. Shuler, new division engineer for the U.S. Army Corps of Engineers, will meet with local business leaders to discuss the Salt-Wahoo project at a noon luncheon meeting of the Lincoln Chamber of Commerce Thursday, at the University Club. 380000

Nov 60 ceives 3rdMea - T last of 3 missile we ons he at the Mead Atlas issi site arrived n Offutt Air Thurs: s fi Force 150. Wor n th ite is expected d in about 31/2 to be mpl mont! a se spokesman declar Mea hile, ne missile has been delivere to the Arlington movile see with another due not week and the 3rd by mid November, it was re-

Fall Into Silo Kills Missile Site Worker

Cortland (i) — A worker who was setting reinforcing steel at an Atlas missile construction site here was killed.

An Army Engineers spokesman identified the victim as Delbert T. Ryan, 24, of St. Peter, Minn. He was employed by the O. E. Salyer Co., a subcontractor for Western Contracting Corp.

The spokesman said Ryan fell into the silo and was killed.

An official for the Army Engineers said a board of investigators has been named to investigate the accident.

County, Base To Cooperate On Roadwork

The Lancaster County Commissioners promised 100% cooperation Tuesday with the Lincoln Air Force Base in keeping county roads open this winter to navigational aid sites outside the base's perimeter.

County and air base officials met Tuesday at the base to discuss a snow removal pregram.

Ruse officials pointed out that although some of the navigation-aid sites are unmanned, roads must be kept clear to enable maintenance crews to reach the equipment immediately when the need arises.

Though the snowfall prediction this year is for as much snow as last year's recordbreaker, Lt. Col. Joe V. Disana, LAFB vice-commander, said the excellent cooperation of the county board and air base engineers can reduce the problem to a minimum this coming winter.

Attending the meeting were Commissioners Rollin Bailey, Kenneth Bourne and Ralph Harlan; County Engineer Louis Weaver, Lt. Col. Nicholas P. Stoffel, deputy commander of civil engineering, and Col. Disana.

OMAHA DISTRICT 7 November 1960 LINCOLN EVENING JOURNAL LINCOLN, NEBRASKA

Cable Link

For ICBM

Sites Set

Groundbreaking.
Is Thursday

The first stretch of hundreds of miles of underground communications cable linking all 12 Lincoln intercontinental ballistic missile sites to the underground Atlas system's headquarters at Lincoln Air Force Base will be started Thursday.

A spokesman from the Air Force Ballistic Missile Division office at Mead said construction responsibility for this step in the Lincoln missile system will be handled by Advanced Communications Engineering, a subsidiary of Cook Electric.

This linking of sites with the headquarters control room at LAFB differs from the system used for the Offutt missile system.

The missiles division spokesman said that a microwave form of transmission is used at the Mead, Arlington and Missouri Valley, Ia., launcher pad sites.

Air Force representatives will be here Thursday with construction officials for the communications line ground-breaking ceremonies.

OMAHA DISTRICT 28 October 1960 SIOUX CITY JOURNAL SIOUX CITY, IOWA

Atlas Missile Pickets Obey Withdraw Edict

LINCOLN (A)—The pickets around the Atlas missile site near Brainard withdrew Thursday under an injunction issued by the district court for Butler county.

Mason Travis, project manager for Western Construction corporation of Sioux City, said the injunction restrains Omaha local 1140, laborers union, from striking or picketing at any of the 12 Atlas missile sites in southeast Nebraska.

The court, in David City, issued the injunction about noon, and the pickets with-drew shortly afterward.

Travis said work then started on the unloading of steel, which had been waiting in trucks parked along the highway since the strike started Tuesday. He expected all employes to return to their jobs Friday.

Further talks with the union will probably continue, Travis said. The strike started with the union's protest of "safety conditions." There was no picketing at any of the other sites.

Travis said earlier he believed the trouble may have been linked to the sacking of a fireman for incompetence. Wednesday he appealed by telegram to United States Secretary of Defense Thomas Gates for action to halt the strike.

New Law Nabs Truck 13 Tons Overweight

Enforcement of Lincoln's | weight on one axle. newly-e n a c t e d truck ordistart Monday.

Asst. Police Chief Orren fines of over \$2,100. Graves said a Fremont trucker was arrested for 7 separate overweight and overlength violations. Graves are helping police in checking pacities in Lincoln. violations, said they have never come across a frick which was so much verloaded.

The truck, hich was bound from Early to the Brainard missile and try-

The state scales men said nances got off to a flying if the trucker had been arrested on a state highway he would have been subject to

Graves himself was responsible for the arrest. The trucker came to Police Headquarters Monday morning. said state scales men, who and asked about bridge ca-

> Graves said he had officers take the trucker to the city scales at 19th and Q where the violations were discovered.

The trucker was released to appear in Municipal Court ing a caterpillar for Thursday. His truck was unuse in construction was loaded and another truck 131/2 tons over the we al- with a larger carrying calowed by its licer also pacity will be sent for the was 31,780 pour er-caterpillar.

Plowing Under Cables For Atlas Sites

Workmen has bogun pair. Any two pairs of cable plowing under a 2-5-mile have a capacity to provide up to 24 simultaneous communication channels.

Nebraska.

Nebraska.

sites in the Line of coplex.

Official poundreaking ceremonics of heid
Thursday afternoon, omewhere east of array ac-D.C.

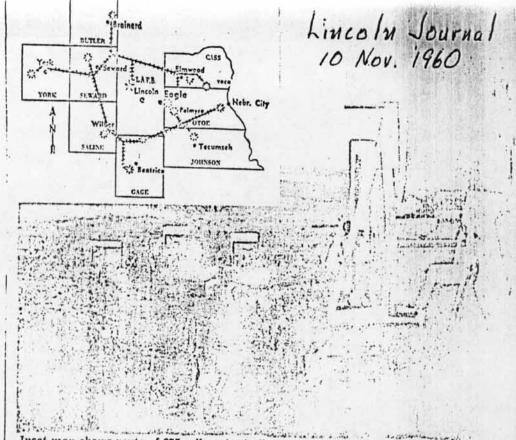
Hubbard explained that the tion. cable laying job aga Mon-day, and "can was for ceremonies." The eremonies will occur at wh ever pint the project lar hed Thursday afterno ...

The cable is be if " wed under" by two ge ter-pillar tractors w a ble plow attached to the ear tractor. The cable fed om large reels into the plow under the ground a a pth of 3 to 4 feet. Ord ary mmunication cables re proced from 30 to 36 inch s de

The cables ran in size from 100 pair don to 15

The cable will some t the is the prime contractor, with 12 Atlas missi law ching the R. C. Hughes Construc-

cording to John Hub and of will include representatives Advanced Come to dions of the contractors, the Air Engineering of aslagton, Force and the National Electrical Contractors Associa-



Inset map shows route of 275 miles of missile communications cable being plowed under by unusual equipment in picture.

First Cable Buried for Missile System's Safe Communication

By Bess Jenkins

from Lincoln all the way to North Platte or Des Moines with the amount of cable it will take to give Lincoln missile system foolproof communication with its headquar-

of some 275 miles of this moisture-resistant cable was the cable requires two 're c linked much of the world w a ceremony Thursday.

30 to 36"

Communications Engineering 48 inch or more depth.
of Washington, D.C., a divi-

John Hubbard, representation headquarters, tive of Advanced Community Spar Cables cations Engineering, said the cable will be down deeper

than "transcontinental ca-lication channels, and eq. You could mark your trail bles, usually buried from 30 ment to develop these will to 36 inches deep."

36 to 48"

Caterpillars are not an un- Actual cable placing will usual sight in the 9 farmland performed by the R counties where the 12 launch-Hughes Construction Co. : er sites of Lincoln's intercon-Cable Construction Co. tinental ballistic missile sys- Spokane and Tacoma. We The first few hundred feet tem are being constructed.

caterpillar tractors to h cable, working in such a cable plow is attached.

As the machines move beria, Japan and Greenl: On hand were representa- along, the cable is fed from and throughout the U.S. tives from the Air Force as large reels into the plow and well as from the Advanced under the ground to a 36 to

sion of Coo! Electric Co. of as shown in the accompany-Chicago, the prime contracting map, practically encirtor; related construction com- cles the area of the 12 sites panies and delegates from and Lincoln Air Force Bose the National Electrical Con- where the Atlas missile squadron will have its sup-

Spur Cables

From this ring will be buried spur cables out to each;

There are all size L. involved in this system, to ing from 100 pair do n

"Any two pairs of " a

installed at 13 separate of the cable." Hubbard 74

Advance Communicati But this "plow under" of Engineering has litera distant places as Nepal,

OMANA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBRASKA 10 November 1960

Man with a rack and of liquid oxygen . . . bottle weighs 50 tons.

Fuel Arrives For State's Ist Atlases

By Bob blanger

A huge vessel of liquid exygen, designed to feed an Atlas missile, is on its way to a site near Terumseh, the first of its type to go to the area.

The 50-ton bottle came into Cortland, the central gathering place, by rail and was placed on a fact-bed trailer to be trucked to the site at Tecumseh. The vessel was manufactured in Los Angeles.

At- Cortland the Corps of Engineers took over for delivery to Teconseh.

"It's sort of like building a boat in your busement." Lt. Col. Hal Schreeder of the Army Corps of Engineers said.

"You have to do things in a certain order. This is one of the first vessels to go into the 'Hole.'"

He explained that an Atlas site was built in a definite order, with flow the lade being dug, next concrete being poured, next flow steel tramework being and in the hole, then vessels of different sorts put in, there of strome equipment of via a types—then the missile of is installed.

"This is just another step, ong the road to activating site," Schroeder said. He said there was a set of vessels going into each of 2 12 sites or "silos" near cumseh, and that this 50-10 bottle of liquid oxygen and complete one set.

'In two or 3 months we will ve all of the vessels into of the 12 sites," he said.

Col. Scarceder explained at the complex near Temseh was built by the rps of Engineers, then the result for Force would take over a complete the rigging of area.

"This is one of the early eps," Schroeder said, "but most important one."

OMAHA DISTRICT 10 November 1960 OMAHA WORLD-HERALD OMAHA, NEBRASKA

Atlas Link

Huge Machines Used. to Bury Cables

> By Howard Silber World-Herald Lincoln Bureau, 501 Federal Securit es Building.

the installations of 262 miles of buried cable to provide an underground communication link of Lincoln Air Force Base and 12 Soul east Nebraska Atlas internating all ballistic missile sit-

The digging, usi som of the biggest plows an in ebraska, worked "Casts from a point about the is directly north of Lincoln ir Force Base.

Full of Nitre During the next : mon the trench will oss northern part of anca ler County, through 155 Otoe Counties, Nortan Johnson County, most of lage, aline and Seward Conties and into Butler and Y C ties.

Minimum depth be 6 inches. But in irrigated fields the cable will be inclus underground.

The cable, which as a ameter of about 50-c piece, is nitrogen filled to keep the copper anducting dry.

It is armored and protected by polyethelene.

Buried for Protection

The work is being done by the Advance Communication Engineering Division of the Job Begins Cook Electric Company, Chicago, under an Air Force con-· tract.

The cable is being buried to minimize the possibility of tapping and other interference and also to provide protection against blast damage in event of an enemy attack.

Every seven miles along the Digging began Thursday on route there will be a manhole with reinforced concrete walls nearly two feet thick. These will contain step-up repeaters to maintain the strength of the communication signals.

Tops Flush The tops of the manholes will be flush with the ground.

The missile bases involved will be supported by the Lincoln Air Force Base. The control posts for the 12 launchers will be at Lincoln.

The entire system will be tied in with the Strategic Air Command's worldwide alerting communication network.

The launching sites are being built west of Nebraska City, north of Tecumseh, in the northwest corner of Otoe County, in the northeast cor-ner of Gage County, southwest of Beatrice, west of Wilber, west of Seward, west of York, southeast of David City, southwest and southeast of Elmwood and in Southeastern Cass County.

hy Cerry Deal

coin Allus missile complex which is many buried bepaused briefly in its 5-miles- tween 20 and 1 inches into a-day pace for ground-break- the ground-ing ceremonies Thursday. The 192-in

The cable-laying got a jump will link conscious of on the ceremonies, beginning the Lincoln Force Base Monday to take advantage of with the 12 sites in the favorable weather.

Representatives from the Representatives from the Hubbard that a along, the cable is fed from Air Force as well as from the "nran-hole" is located applicated applications into the plant and Advanced Communications proximately ev Engineering of Washington, the cable system. These inch depth.

D.C. a division of Cook "man-holes", with nave reElectric Co. of Chicago, the inforced concrete walls two. The cable contains from 15 prime contractor: related to 3 feet thick construction companies, and electronic equipdelegates from the National Jeommunications Electrical Contractors Assn. were on hand for the groundbreaking ceremony.

Deeper Than Usual According to John Hubbard. resentative of Advanced n munications En-

timeering, the cable will be! Machinery which is "plow-buried about a inches deep, ing that?" 275 miles of com-which is deep r that the municular cable for the Lin-"transcontined to cable."

> The 112-inch a meter cable area.

stem.

Unusual Operation

The "plow-under" aivelves quite a construction operation requiring 4 large caterpillar tractors, referred to as the "cable plow-under train."

The first two tractors move the earth to make way for the two tractors, one pulling Force Base the other, to which a cable plow is attached.

As the machines move located ap- large reels into the plow and 7 miles of under the ground to a 36-48

will house to 160 wires, any pair of which

Cable placing is being per-lquarters.

formed by the R. C. Hughes Construction Co. of Spokane, Wash., and the Cable Construction Co. of Tacoma, Wash.

The project is expected to be completed by July 1, 1961.

The cable encircles the ent for the has a capacity to provide up area of the 12 sites and the to 24 simultaneous communi- Lincoln Air Force Base where cation channels, according to the Atlas missile squadron will have its support head-



These cable-long machines moved at a quick walkin pace as they buried a moisture-resista de cable northwest of Malcolin as part of a communications system linking the Atla missile sites surrounding Lincoln. They paused briefly Thursday for official ground-reaking ceremonics. T. .. first set of Caterpillar machines loosened the ground, while the second set fed the cable from a reel to the hottom of a knifelike plow and buried it up to +3 inches deep. A big disc harrow followed to leve! the earth. (Star Photo.) -

By Dean Terrill Southeast Nebraska Bureau Tecumsch-A giant ste toward arming Lincoln's 1 site Atlas missile comple was taken with the shipme of a 50-ton liquid oxygen vesel to the base here.

The 46-foot missile fur drum, one of which will to each site, made the him way trip from Cortland in police-led 10 mph carava Another has already come b rail to the Cortland unloads dock, destined for Brainat and the other 10 are expect in the next two or 3 month

Several sets of wires we. raised for the unit as it p ceeded south on Highway than east on Highway I. The Beatrice business di trict was byparsed, althouthe vehicle did go throu town.

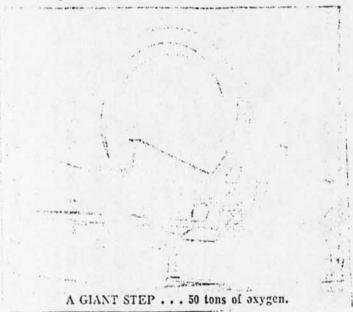
Seven smaller vessel ranging from 7 to 44 to have already been shipped Tecumsen over the past t weeks, according to a spoke man for Western Contracti

Lt. Col. Hal Schroeder the Army Corps of Engine explained that the various vessels are placed in ea

ilo as certain work stages | pipe fabrication shop - weldre reached.

ont acting firm's Cortland some '50 tons.

ers and other employes "This is just another step worked around the clock for The trailer carrying the bage drum was built at the cargo was estimated to weigh



Crane lifts tanks for use in missile base sites

Missiles, Not Gold,

Cortland - A modern day | Carloads of re k, nent, | southeast Nebraska.

uddenly become a bechive or coal. activity.

outheast Nebraska. been streaming in rail Twenty miles south of Lindially to a small rayard

Strange Faces

omes,

once

ables

have

Strange faces are ing in the town nime searching for plans live. Some tow trailer parking them in what was an apple or has

Basements that one cannod fruit and ver now house workers the come from as far as

perienced in the fame rush of 1819. Its population! has increased more than 50% Ols there it isn't gold

battis to missile, som celled the "bird housed on the Fort 11 farm, J's miles to 1 of

Vernon "Pete" Union Pacific Railway : cent. said while he handled a cars of coal and lumber of 1959. in Cetaber of this year he handfed 197 cers. It is the ents contained in timed men hards. tined not be 12 2 has to sile sites that you be count. See at strategie lacations in . enst Nebras'in.

Heaviest piece handled in become lown has sprung up in steel brackets and tan have the assortment of gigantic nuts and bolts is the massive coln on Highway 77, the once that had been used to gload 50-ton liquid oxygen tank requiet hamlet of Cortland has an occasional cort of grain cently transported by truck to the Tecumseh missile site.

> Outside the rustic 1884-built pear- frame train depot building, a daily, crew of 15 men, wearing strange-looking steel hats, keeps a constant flow of traffic heading out to the 12 mislored sile sites.

A mammoth crane, with mada boom and cable towering 50 and the northern just of feet into the air, can easily pick up 60 tons of steel in one bite and gently set it! Cortland is feeling the down alongside the track for! shock that many town ex- future delivery to designated; gold areas.

To cope with the tremenin the past few months. Only dous increase in rail traffic, the Western Contracting Corp. of Sioux City, Ia., mathe Strategie As Com-jor contractor for the Air man, All a mission and Force on the missile sites, ball are missile, some limes had Union Pacific build an be 500-foot railroad spur in the twig north yard.

own. | Bob Theriault, yard ma-Person, terials handler, said, "The

> Lincoln Sunday Journal and Star 20 Nov. 1960

- Lincoln Sunday Journal and Star 20 Nov. 1960

First cattle train arrived in Cortland in spring of 1885

hind This Boom Town

new spur has enabled the have become part of us." | States Air Force will be movcrew to handle the incoming He continued. "This sudden ing in.

He said more than 70 carloads of steel counter weights and brackets have arrived Now approximately 35 to 40 since Sept. 15. In addition, 230 carloads of cement and gravel for the Cortland site have arrived. About 50 more carloads of steel and an undetermined amount of cement and gravel are yet to arrive.

'Cordial Acceptance'

we have accepted them in a while other people wearing manhole cover made of steel cordial way and in turn they the colors of the United re-enforced concrete.

and outgoing material with-out too much trouble." expansion in the town has af-fected the school program. fected the school program. The school was at full capacity prior to their coming. additional youngsters have enrolled. That old brick school building is literally bulging at the seams."

> But like all boom towns, the mushroom effect lessens as the work dwindles. Within

There is no definite completion date, however by spring most of the workers will be technicians with jobs inside the immediate missile site area.

But like the gold rush days, evidence will remain for a long time that there was such activity. East of town, a vast hole 65 feet wide and 185 feet deep will house the Atlas missile.

Car Bonebright said, "At the next year, many phases first we were somewhat apoff the missile sites will be probensive of the missile and completed. Some of the "hard "Mighty Atlas" will wait concursof-towners coming but hats" will be pulling out cealed beneath an oversized Completely entombed in its

OKAHA DISTRICT 22 November 1960 LINCOLN EVENING JOURNAL LINCOLN, NEERASKA

Thursday's traditional meal is on minds of these missile workers awaiting their pay-

Missile Pay Snort Apparently Ended

By Bess Jenkins

struction of the Lincoln At- tor's financial difficulties uninvolving workers' paychecks, apparently was solved Tues-i nicated with Hansen's bonding day afternoon.

The inability of a major sub-contractor, the Hansen-Kashner Co. of Fresno, Calif., to meet its payroll caused the latest difficulty.

Work at the 12 sites was not interrupted but silo concrete workers employed by the defaulting sub-contractor gathered at the Lincoln offices of Western Contracting Corp., the missile building firm, to all until we're paid."

Checks Ready

Mason Travis, Western's project manager, said Tuesday morning some \$37,000 in payroll checks were available to the waiting men shortly after noon Tuesday.

Some Hansen-Kashner Co. employes who had received checks last week said they found the checks were not nonored at the bank.

Travis said he was not in-Another crisis in the con- formed of the sub-contrac-

"We immediately commucompany, who instructed us to take over the remaining 15% of the work," Travis said.

He said there is money now to cover the checks out.

Waiting workers Tuesday morning complained they had been told "for 4 days their checks would be ready that day."

Bud Finnell, business representative in Lincoln for Laborers Local Union 1140, said "some affected employes were getting protty warm

He also criticized Western's reluctance to deal directly with local representatives of the labor union which "provides about 800 of the workers on the missile sites."

, No Hansen-Kashner spokesman could be reached, but Travis and a local Army Engineer's spokesman said the sub-contracting firm evidently hit financial difficulties in meeting the payroli of a

7-day, 'round-the-clock program.

Both sointed out the overtime involved in such a sched2: 25 1 C

gruntled Workers Seek

Eud Finnell (foreground), union busine rep entative, listons to pay grievances voiced by waters at the 12 Atlas missile sites around Lincoln who here the ened to walk off the job Tuesday. (Star Photo.)

Ada World

Ponder Stute

. . . PAY HASSLE ALISES

By Nancy Ray

Angry workers at the 12 Atlas missile sites being constructed around Lincoln threatened to walk out Tuesday because some paychecks were bouncing at local banks, and other workers had not one Lincol ank as rereceived paychecks for up to ported to be sh g the
3 weeks, union officials workers' che ag Moncharged.

Crux of the trouble, a c-cording to a Laborers Local 1100 spokesman, is the subcontracting firm - Hansen-Kashner of Fresno, Calif., which has reportedly "gone broke."

Paychecks of the firm were not honored by local banks starting last Friday, and the resno firm officially pulled t of the Lincoin Atlas con-

struction wor	at dnig	ht
Sunday, leavi-		
of Local 1140		
ion workers,		
pay checks for	back work	or
with checks	be ho	n-
ored.		
One Lincol	lank as r	e-

day afternoon

Promises Pay

Western Contracting Corp., general contractor for the missile site work, has promised to straighten out the paycheck snarl, according to Bud Finnell, Lincoln Local 1140 business representative, and the firm has posted a sign at its Lincoln offices promising payment to the workers at 4 p.m. Tuesday.

"There are a lot of angry men at the sites," Finnell reported, "and they aren't going to stay on the job if this isn't straightened out."

He said all 12 sites would be affected in a walkout because the Fresno firm was doing the cement work on the underground silos at all 12 intercontinental ballistics missile bases.

700 Affected

Leonard Schaefer, business manager of Local 1140, said in Omaha Monday that about 600 to 700 men are involved in the cement work, all of whom have been affected bthe Fresno firm's withdraw.

He added that Western contracting itnended to make the checks good, but that despite several such promises, this has not been done.

Mason Travis, Western's project manager for the Atlas construction, confirmed that the Hansen-Kashner firm had defaulted, and that the firm's San Francisco "bonding company immediately took over the financial arrangements."

"Money has been deposited in the First Continental National Bank in Lincoln to cover the workers' checks," Travis assured, adding that Western was also guaranteeing payment on the checks.

Travis said that payroll checks for the workers employed by the Fresno firm during the last workweek ending Sunday would be available to the workers Tuesday-3 days earlier than usual-"and I see no reason for a walkout."

Workers Transferred

Workers of the defaulted firm "needed to complete the work" were automatically transferred to the Western Contracting payroll Monday, Travis explained.

The work of the Hansen-Kashner firm was approximately 85% complete, Travis said, and their default "will not interfere with our work schedule."

He said the firm's failure "was due to the tremendous tempo of work on these projects which goes on 7 days a week. We don't have a 5-day week in this work," he added.

CORTLAND.

SINGE AGE BOOMTONE

. By SSgt. Marvin I., Hatcher

A modern day boomtown has sprung up in southeast Nebraska!

Twenty miles south of Lincoln, on Highway 77, the once quiet, peaceful hamlet of Cortland has suddenly become a bechive of activity.

Strange faces are entering the town almost daily, searching for places to live; some towing long, sleek trailer homes—to be parked in a large backyard that once was an apple orchard, or in the new parking area created for this influx of newcomers.

Rusements that stored canned fruit and vegetables, now house workers that have come as far off as Canada and the northern part of Maine.

Cortland has felt the shock that many towns experienced in

the famous gold rush of '49. It's population has increased over 50 per cent within the past few months. Only this time it isn't gold.

The 'beast" is coming to Cortland. Strategic Air Command's Atlas intercontinental ballistic missile, sometimes called the 'bird," will be housed on the Fred Hartwig farm, 3½ miles due east of the town.

The free world's most successful deterrent missile is capable of delivering a "Sunday punch" to any part of an aggressor nation within a 9,000 mile radius.

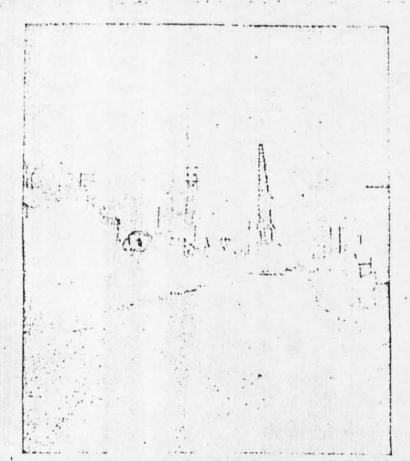
Curleads of rock, cement, steel bracket sand tanks have been streaming in by rail daily, to a small tail yard that has been used to an occasional grain car or load of coal.

Vernon "Pete" Peterson, Union

Pacific Railway Agent, in looking at records of November, 1959, disclosed that he handled five cars of coal and lumber that month. Flipping the pages to eleven months later, the ledger showed he handled 107 cars in October this year. All of these cars contained materials destined for the 12 Atlas Missile Sites that will be constructed at strategic locations in the southeast part of Nebraska.

In between telephone calls, and with the telegrapher's key constantly chattering in the background. Pete admitted he was working a lot harder. His comment—"I've never seen such huge equipment in all my life. But its worth it, I'm seeing things that I will never see again."

The heaviest piece of equip-(Continued on Page 13.)



THE BOOM OF THE CRANE at the Cortland railroad seems to

(Continue a from Page 12.)

& Marian

ment handled in this associment of gligantic mits and males is the massive 50-ton liquid oxygen tank that recently was transd by track to the Tecamsch Sic.

Inside the furtie old frame building that was built in 1881, a quaint coal burning, pot-bellied stove still hours the now deserted passenger weiting room that seats seven people. Passenger service into cortland was discontinued in the 1930's.

In the adjoining room, telephone and telegraph equipment that was initially installed before the turn of the century is still being used.

The same desk which was used by the first agent 76 years ago, is now experiencing more paper traffic across its top in one month, than it did in any fiveyear period previously.

The 35-year-old Navy veteran, who spent five years on nireraft carriers and saw many parts of the world, is still fascinated by the fact that only a small, thin wooden door separate the 19th Century from the fast moving

Beyond the small door that leads to the outside, tons upon tons of space age materials lie "alting for trucks that will carry the missile sites.

rew of 15 men, wearing ge looking steel hats, with jobs ranging from pipe fitters to crane operators, keeps a constant flow of traffic heading out to the 12 different missile sites like the one cast of town.

A mammoth crane, with boom and cable towering 50 feet into the air, can easily pick up 60 tons of steel in one bite and gently set it down alongside the track for future delivery to t' designated areas.

To cope with the tremendous. amount of rail traffle, the Western Contracting Corporation of Sloux City, Iowa who is the major contractor for the Air Force on the missile sites, had the Union Pacific Railroad baild an 800 feet railroad spur in the north yard.

Bob Theriault, Materials Handler in the yard, stated, "The new spur has enabled the crew to handle the incoming and outgoing material without too much trouble." In checking his bills of lading, he revealed that over 70 carloads of steel counter weights and brackets have arrived since t. 15.

ddition to this, 230 car-

THE FIRST CATTLE TRAIN to arrive in Cortland was in the spring of 1885. loads of cement and gravel for the Cortland Site has arrived. Theriault went on to say that approximately 50 more carloads of steel is scheduled in and at an un-

determined amount of cement and gravel is yet to arrive.

Grocer Carl Bonebright, 48year-old native son of Cortland, whose grandfather arrived one year after the town was founded, stated, "You know, we were first somewhat apprehensive of the missile and the out-of-towners coming in, but we have accepted them in a cordial way and in turn they have become part of

He went on to say, "This sudden expansion in the town has only affected the school program. The school was at full capacity prior to their coming and now approximately 35 or 40 additional youngsters have enrolled." He added, "That old brick school" building is literally building at the scams."

Bonebright stated that at least 25 trailer homes were in the town and approximately 20 apartments and houses have been rented to construction workers and their families. One builder went as far as to construct a small apartment house for the increase of population.

John Wollenburg, cafe and filling station owner across the highway from the railhead, admitted his business has increased considerably since the arrival of

the missile construction workers. The small cafe which seats 20 people is full of these "hard hats" from 11:30 a. m. until 1 p. m. each day. Wollenburg stated, "I am fortunate to be in this location. These fellas can fill up their gas tanks outside and fill up on plenty of good solid food inside."

But like all boomtowns, the mushroom effect lessens as the work dwindles. And the village of Cortland is no different than any other place. Within the next year, many phases of the missile sites will be completed. Some of the "hard hats" will be pulling out while other people wearing the colors of the United States Air Force will be moving in.

There has been no definite completion date, however, by the time the snow ceases to fall in the springtime and green grass begins to sprout, most of the workers will be technicians working inside the immediate Missile Site arca.

After all the construction has been completed, and the last worker has departed, Cortland residents will not easily forget . the teeming activity that was part of their community for a short period of time.

And like the gold rush days, evidence will remain for a long time that there was such activity. For, out east of town, a vast hole 65 feet wide and 185 feet deep, that was dug with cranes instead of picks and shovels, will house the Atlas Missile. This Atlas will be fired only in case of war. And this will be done with only the direct order from the President of the United States.

Completely entombed in its specially designed hole, the

fore unchanged, except for one thing. It will now harbe a a secre--one that may some day delive. a deadly blow to the enemies of this country.

The school that was once builting at the seams, will be sixing new hitsery books that excempasses the story of the Space Age Boomtown.

mighty Atlas will walt concealed beceath an oversized manhol: cover made of steel re-inforced concrete.

But once again, Cortland and be a peaceful village, strail the main Shonway leading small out of Lircoln. The same as be-

rkers Get Their Pay

Eager en doy

of the defaulted cement firm subcontractor for Licella Atlas missile sites crowd the entrance to the pay office Western Contracting Corp.'s Lincoln offices to recove for checks. (Star Photo.)

Avort Wallaut

By Nacy Swift active by of employes 12 Atlas day for last week's work. missile sites angi B coln Air For

1 15

Ti

Paychecks subcontracti the Lin-

Western as early as last Friday were Contracting or Tuesday again being honored, and averted a the often walkout workers were paid off Tues-

Some grumbling continued from former employes of the Hansen-Kashner lefaulted | defaulted which firm who claimed that more than one week of back pay was due them but union officials said the grievances were being handled individually.

Workers showed up Tuesday at the Western offices with signs reading "No Checks, No Thanksgiving" but soon quit the demonstration in order to line up for paychecks.

The threat of a walkout arose Monday before announcement by Western Contracting, the general contrac-tor for the sites, that the defaulted firm's payroll had been taken over and money deposited to meet the pay-

Hansen-Kashner employed about 190 men on slip-form cement operations at the 12 sites. Many of the firms employes have ben transferred to the Western payroll and will complete the work on the underground silos under Western direction.

Construction Peak At 12 Allas Sires

LINCOLN, Neb. un - Construction work has reached a peak at the 12 Atlas missile sites in the Linceln area, and \$459,000 a week is being paid in wages.

The payroll figure was announced Tuesday by Mason Travis, project manager for the Western Contracting Corp. of Sioux City. Iowa, the prime contractor.

About 11,900 employes, including 1,000 employed directly by Western, are working on a roundthe-cleek, seven-day-a-week schedule, to draw the money. About 300, employes are hired and paid by sub-contractors working with Western, Travis said.

Aithough peak employment has been reached on construction, the program of electronic equipment installation by Convair-Astronauties and its subcontractors, which will follow, should provide a similar weekly payroll out of Linceln, a Convair spokesman indicated.

OMAHA DISTRICT LINCOLN EVENING JOURNAL AND NEBRASKA STATE JOURNAL LINCOLN, NEBRASKA 29 November 1960

Missile

cekly in Icom Area

Bess Jenkins

Lincon's missile system construction, now at employment ak at all 12 sites, is c lin its builder and subcontracting firms a weekly.

Meson what . ne banking official April. "all-time record in CITIS : weekly Lincoln payrolls."

1.900 employes, in-.. 500 employed directestern, are working und-the-clock, 7-day sided at the sites to draw tion money. About 300 cmplaces re hired and paid by selectors working with Travis said.

k Reached

edule will gradually dealine is the July deadline for he construction of the 1 Sile the p ram of electronic | at installation (lipt by Convai Astronautics and its splicon actors should provide a fimilar weekly payroll on of Lincoln.

the eer pany's Rend officers estimated there will be 2.000 employs and their milles on

"millions of deliges will be spent of wages. The spokesrian.

He estimated about 1.000 of the present workers finishing up Convair work at the Offutt missile sites would move to Lincoln from their present Omaha and Frement homes.

Some To Commute?

"Some who have bought homes in Fremont and other nearby areas may prefer to remain there and commute to their jobs," he added.

But salaries of another 500 to 600 workers qualified for administrative support and technical background jobs to be recruited from towns near the Lincoln missile siles will add to the general economic status.

Traveling Recruiter

An employment office in Lincoln will be set up by Congure, announced by vair early in 1961 and a travravis, project man-cling recruiter will visit towns Western, represents near the sites in March or

> A Convair survey of its 1,055 employes in October at the Offutt sites (excluding subcontractor employment) showed 11% were living in Lincoln: 37%, Fremont: 42% in Omaha and West Omaha. and the remaining 10% at Wahoo and other small communities.

About 60% of the some 1,900 employes now on payh peak employment rolls of Western Contracting reached and the and its subcentractors come either from Lincoln or from

"Presumably, they live complex is reached, here or commute from Omaha," said a personnel spokesman. The remaining 40% come from other Nebraska towns or out of state.

He recalled Westerr's work on Pickstown, S.D., dom A Cr pir spotesman from when a study disclosed employes came from 47 states...

He said overtime, double time and a 7-day r week ten til terrorie schedule, involving Suntay te ting to terrorie work, in an effort to keep range at a ment Sep- on the construction schedule account for the Lincoln rec ord payroll.

OMAHA DISTRICT OMAHA WORLD HERALD, OMAHA, NEBRASKA 30 November 1960

Missile Site Wages Peak

Lincoln Area Pay Roll \$450,000 Weekly

Lincoln (AP) - Construction work has reached a peak at the 12 Atlas missile sites in the Lincoln area, and 450. thousand dollars a week is being paid in wages.

The pay roll figure was announced Tuesday by Mason Travis, project manager for the Western Contracting Corporation of Sioux City, Ia.,

prime contractor.

About nineteen hundred employes, including sixteen hundred employed directly by Western, are working on a round-the-clock, seven-day-a-week schedule. About three hundred employes are hired and paid by sub-contractors; working with Western, Mr. Travis said.

The program of electronic equipment installation by Convair Astronautics and its sub-contractors should pro-vide a similar weekly pay roll, a Convair spokesman indicated.

An employment office in Lincoln will be set up by Convair early in 1:01 and a travcling recruiter will visit towns near the sites in March or April.

Col. Marsh, Missile Weapons Chicer,

Speaks In Seward Hext Tuesday Night

at

may

talk

the

tion.

kets

ore

w.

les

the

and

Sew-

adly

ed.

the

-111

the

con

The story of the Atlas missile site at Seward will be presented next Tuesday evening at a meeting sponsored by the Seward Chamber of Commerce in the Civic Center.

Col. Frederick Marsh, missile weapons officer at Lincoln air force base, will speak, and will illustrate his talk with colored movies, slides and charts.

20 Col. Marsh, with nearly years in the military service, has had approximately 6000 hours flying time, from bases in both hemispheres.

He came to Lincoln about 18 months ago, from Redeton arsenal at Huntsville, Ala., handquarters for missile develop-ment under the famed We per von Braun.

Col. Marsh's appearant Seward was arranged by I m Wake, of the Seward Chamber's program committee. Because of the wide interest in the misthe fiture of this area, the meeting will be open 4 for a wider audience.

Local citizens, adu students, who would ! attend, may make re-for the 6:30 dinner, come at 7 p.m. for alone, without re re Those who wish to a dinner may purcha-from the Chamber ! John Coyle.

The "Atomic Age" closely touch the live ard area residents missile base located west, two miles nanother half mile we ard is completed and Atlas missile, arme atomic warhead, is i

Convair Astronaut builder of the missil begin installation launching equipment as the concrete "sile"

The outer shell of is 10 feet in diam flares to 16 feet at las and where the engine or let are Atlas weighs 260,00 pfrom its tip down 82 teel "toes." Guidance the nds its ent. batteries, and other such uipment are housed in two I "pods" mounted on op-sides of the tank structu ral site

The missile is powere liquid propellant rockets wo large boosters, one large sustainer, and two small vernier "trim" rockets all burn liquid oxygen and RP-1, a kerosene-like hy iro-carbon. Takeoff thrust i approximater



This power hefts the missile's destructive load more than 6,000 miles at 17,000 miles an hour, dropping it within a two-

COL. FREDERICK MARSH

mile circle 15 minutes after launching.

Convair and Air Force Bal-listic Missile Division officials and said that power and guidance improvements have steadily increased the range while shrinking the target error.

Atlas missiles at Seward will employ "inertial guidance", which cannot be "jammed" by ary, radio signals.

> Without fuel, the missile weighs 25,000 pounds-one tenth the loaded weight. The metal skin is so thin that it can't support its own weight. The Atlas is kept under constant internal pressure, making it at once an extremely light and extremely strong stainless steel "balloon."

Missile bases that are being built near Omaha are in "complexes" of three and they are above ground, while missiles in this area will be housed underground, and brought to the surface for firing.

Atlas missiles at Seward, Brainard, York, Wilber, Beatrice, Cortland, Elmwood, Nebraska City and Tecumseh will be placed in 160-ft. deep concrete "silo" emplaceconcrete "silo" emplace-ments. Each structure will contain 4,000 yards of con-crete and 90 tons of steel. Two hundred-ton concrete doors, strong enough to crack 18 inches of solid ice, open to allow an elevator to bring the Atlas to firing position.

Seventy-five separate cables, with a total of some 2,500 wires, connect each launch house building. Involved are approximately 25.000 cross connections.

All this is controlled by men underground thather in their Other construction in this area includes a liquid or the generating plant at the the liquid or the l

number 7 Dec 60

The story of the Atlas missile site at Seward will be presented next Tuesday evening at a meeting sponsored by the Seward Chamber of Commerce in the Civic Center.

Col. Frederick Marsh, missile weapons officer at Lincoln air force base, will speak, and will illustrate his talk with colored movies, slides and charts.

Col. Marsh, with nearly 20 years in the military service, has had approximately 6000 hours flying time, from bases in both hemispheres.

He came to Lincoln about 18 months ago, from Redstone arsenal at Huntsville, Ala., head-quarters for missile development under the famed Werner von Braun.

Col. Marsh's appearance at Seward was arranged by Tom Wake, of the Seward Chamber's program committee. Because of the wide interest in the missile project, and its effect upon the future of this area, the meeting will be opened for a wider audience.

Local citizens, adults and students, who would like to attend, may make reservations for the 6:30 dinner, or may come at 7 p.m. for the talk alone, without reservation. Those who wish to attend the dinner may purchase tickets from the Chamber Secretary, John Coyle.

The "Atomic Age" will more closely touch the lives of Seward area residents when the missile base located four miles west, two miles north, and another half mile west of Seward is completed and the deadly Atlas missile, armed with an atomic warhead, is installed.

Convair Astronautics is the builder of the missile and will begin installation of the launching equipment as soon as the concrete "silo" is completed.

The outer shell of the Atlas is 10 feet in diameter and flares to 16 feet at the base where the engine outlets are located. Loaded with fuel, the Atlas weighs 260,000 pounds from its tip down 82 feet to its "toes." Guidance equipment, batteries, and other such equipment are housed in two lateral "pods" mounted on opposite sides of the tank structure.

The missile is powered by liquid propellant rockets—two large boosters, one large sustainer, and two small vernier "trim" rockets all burn liquid oxygen and RP-1, a kerosene-like hydrocarbon. Takcoff thrust is approximate".



This power hefts the missile's destructive load more than 6,000 miles at 17,000 miles an hour, dropping it within a two-

COL. FREDERICK MARSH

mile circle 15 minutes after launching.

Convair and Air Force Ballistic Missile Division officials said that power and guidance improvements have steadily increased the range while shrinking the target error.

Atlas missiles at Seward will employ "inertial guidance", which cannot be "jammed" by radio signals.

Without fuel, the missile weighs 25,000 pounds-one tenth the loaded weight. The metal skin is so thin that it can't support its own weight. The Atlas is kept under constant internal pressure, making it at once an extremely light and extremely strong stainless steel "balloon."

Missile bases that are being built near Omaha are in "complexes" of three and they are above ground, while missiles in this area will be housed underground, and brought to the surface for firing.

Atlas missiles at Seward, Brainard, York, Wilber, Beatrice, Cortland, Elmwood, Nebraska City and Tecumseh will be placed in 160-ft. deep concrete "silo" emplacements. Each structure will contain 4,000 yards of concrete and 90 tons of steel. Two hundred-ton concrete doors, strong enough to crack 18 inches of solid ice, open to allow an elevator to bring the Atlas to firing position.

Seventy-five separate cables, with a total of some 2,500 wires, connect each launch house building. Involved are approximately 25.000 cross connections.

All this is controlled by men underground their their their

Other construction in this area includes a liquid or generating plant at the limit at limit at the limit at limit at limit at limit at limit at limi

Allas Sites

Discussed

At Avoca

Avoca - Over half of Avoca turned out to hear a Strategic Air Command team discuss Atlas missile sites now under construction in eastern Nebraska.

The discussion, the first of a series for towns located near the . sites, was led by Col. Thomas Corbin, Com of mander Corbin the 818th Air Division at Lincoln Air Force liase.

Some of the questions ked of and answered by orbin:

What about explosion in the thas silo?

"The danger is very small. an explosion should occur, he destruction would be conned to the silo itself with o danger or damage to the who has the authority to

ire the Atlas?

"Only the President can der the launching of the issiles."

How about an accidental unching? Can one man in he silo set it off?

"No. It requires more than ne man. Also, we have a sequence of safety measures to revent accidental launchmgs."

Can more than one missile e fired from a silo?

"If the U.S. were attacked, here would be no need to use silo for more than one unching. Also, after an Atas is launched, sufficient amage is caused to the aunching platform which revents immediate reuse."

What about radiation ef-

ects from the Atlas?
"There are none. Radiation effects would come only from the explosion of an enemy missile in our territory."

The Atlas project's economic aspects were touched upon by Frederick J. Childress of Convair-Astronauti

He told the group that a gradual buildup of civilian personnel for the sites will reach a peak in 1961 of al-most 2,600 families.

About 1,000 of these families will be located in or near Lincoln, he said, adding that it is Convair's intention to hire as many locally qualified persons as possible.

"We plan to hire between 500 and 600 persons in this area," he said.

AVOCO TOWN FICH 16 Dec 60

For First Missile-Site Meeting

By Gene Budig

Avoca — Most of Avoca's launch direct attack against the U.S. mainland.

town hall Thursday night to Corbin said that such an. hear about their future with offensive could be launched the men in blue.

On the informative end of "To counter this threat, the Air Force Base.

touring the 12 Atlas missile base sites in the Lincoln stroying an enemy's wararca.

This was the first of the dozen stops.

S"Needed Strength'

Corbin said that the two Avoca area missile sites one 4 miles west and the other 4 miles east - give needed strength to America's defensive armor.

"Today," the Strategic Air Command division commander told the attentive group, "we face an enemy tremendously more dangerous to our way of life than we did in the 1940s - an enemy de-

dicated to our annihilation." Sternly, the Lincoln officer reminded that for the first time in history, a potential enemy has the capability to'

things was Col. Thomas G. Strategic Air Command has: Corbin, 316th Air Division maintained for more than a Commander at the Lincoln decade, a combat-ready alert system which provides us Corbin, flanked by a team with an instantly ready retalof ballistic missile experts, is latory force capable of de-

> making capability, and making it totally unprofitable, if not suicidal, to attack us."

He said that Nebraska's ballistic missile sites will take their place beside the manned jet bombers in giving the country necessary security. .

His comments drew frequent applause.

The economic aspect of the missile project was touched

on by Frederick J. Childress call for the hiring of some 5 of Convair-Astronautics.

Childress said that at the peak of construction, the monthly payroll for the combined agencies will run about "one and three-quarters million dollars."

The Convair payroll will run about three-quarters of a million, he added.

Childress said there will be a gradual buildup of civilian personnel which will reach a peak in mid-1961 of almost

2,600 families. "About 1,000 of these famihis will be re-located into the I incoln and southern Nebraske area, and many will be looking for houses to rent in the towns close to the silos," he said.

The Convair official drew scattered cheers when he said that it is his concern's policy to hire locally as many qualifind people as possible.

Present forecasts, he said, I day night.

to 6 hundred area people between March and August of 1961.

To facilitate hiring, Convair-Astronautics will open an employment office sometime in March and will have a representative travel from town to town to interview applicants.

Cortland Meeting Set Saturday

The next informational meeting on Atlas missiles and their operation is scheduled at Cortland Saturday.

Other visits at the 12 Atlas missile base sites in the Lincoln area have not been officially scheduled.

The Atlas informational tour opened at Avoca Thurs-

& Aveca

(Continued from Page 1.)

an enemy's war-making capability, and making it totally unprofitable, if not suicidal, to attack us." He went on to point out that ballistic missile sites such as the Atlas sites being constructed in Nebraska, will take their place alongside the manned jet bombers in providing our country with the modern mixed force of missiles and bombers necessary to main-

tain our security.

Then in explaining the reason for the placing of Atlas Intercontinental Ballistic Missiles in Nebraska, Colonel Corbin stated:

"To be efficietive as a deterrent force, and effective it must be if we are to survive, our longrange of benders and miss must be distanced over as we entral as possible. This disper of reladiatory forces is necess, to range it as near to imposs as we can for an enemy to kn us out acfore we can strike bat "This is why," he said, "

♦ Avoca

(Continued from Page 2.)

cities throughout Nebraska."

Following an informative color film which covered the development and construction phases of the giant Atlas, Frederick J. Childress, who represents Convair-Astronautics, spoke in considerable detail on the local site construction programs.

In discussing the Atlas missile "silo" type site being constructed near Avoca and at other locations in Nebraska, Childress gave out some statistics.

"The silo," he pointed out, "is a round hole measuring 52 feet across and 174 feet deep. During excavation, 71,000 cubic yards of earth are removed. The sides of the silo are made of reinforced concrete that runs from about two feet thick at the bottom to about nine feet thick a the top. Some 1,000 ready-mix ruck loads of concrete are needed to pour the 6,000 cubic yards of concrete that go into the silo walls."

Childress went on to describe the engineering ingenuity involved in the silo construction. "The steel framework within the silo," he said, "is equal in height to an 18-story building, weight 1,500 tons and hangs, shock mounted on giant steel springs as big around and as long as a telegraph pole."

According to Childress, the shock mounting allows a two-foot "rattle space" between the framework and the concrete sides of the silo to prevent damage from earth tremors.

He also called attention to the fact that the Atlas sites will have their own source of electrical power and will be able to generate enough power to supply an average city of 30,000 population.

Ther touching on the control Childress pointed out that the electrical wiring necessary for the control would stretch Lincoln to Dallas, Tex.

In closing, the Convair representative turned to the subject of least civilian employment. "It has been estimated," Childress said, "that at the peak of the construction operation, the

Lincoln and southern Nebraska area, and many will be looking for houses to rent in the towns close to the silos."

Childress said that it is Convair policy to hire locally as many qualified people as possible and that present forecasts call for hiring some five to six hundred local people between March and August of 1961. To facilitate hiring, Convair-Astronautics will open an employment office sometime in March and will have a representative travel from town to town to interview applicants.

Childress' portion of the program was followed by Lt. Col. Frederick II. Marsh, Missile Maintenance Officer for Lincoln AFB, who told the people of Avoca what they can except when the Atlas Missile site is finally an Air Force operated unit.

Colonel Marsh, well known as a speaker throughout the Lincoln area, emphasized that the Atlas Intercontinental Ballistic Missile will never be fired from these silo sites unless the United States in under attack, and then, only upon the President's order.

Then the missile officer went on to explain the extensive safety measures employed in operating the sites and assured his audience that the chance of an accidental nuclear explosion was "nil."

Elaborating on this point, the Strategic Air Command missileexpert and, "We have never had an accidental explosion in the 15 years of handling weapons. The arming device is so designed that the warhend is not activated until the missile is well on its way to a target area thousands of miles away."

On the brighter side of the picture, Colonel Marsh said that on an average there would be 12 Air Force families in need of housing at each of the missile sites. "Each site," he said, "will be manned by 20 men, half officers and half airmen."

At the conclusion of Marsh's presentation which included color slides, Colonel Corbin invited the audience to take part in an open session in which he and the other two speakers would answer questions.

Strategie Air Command must spread out its forces over vast areas heretofore remote from military activities directly linked with our Nation's defense; why Atlas missile crews will soon boliving in a number of towns and

(Continued on Page 7.)

monthly payroll for the combined agencies will run around one and three-quarter million dollars.

The Convair payroll will run about three-quarters of a million. There will be a gradual buildup of civillan personnel which will reach a peak in mid-1961 of almost 2000 families.

"About 1,000 of these families." he said, "will be re-located in the

Atlas Speaking Team Briefs Avoca Citizens

Farm Community Learns Of New Missile Neighbor

Over half the population of Avoca, Nebr., was on hand last night at the Town Hall to take part in a highly informative public meeting at which they heard a three-man team of Strategic Air Command representatives discuss the new Atlas missile sites now under construction in this part of Nebraska.

Avoca is one of 12 communities within a 50-mile radius of Lincoln AFB where construction is already under way on the "silo" type Atlas missile sites.

The meeting last night was the first of a planned program initiated by Col. Thomas G. Corbin, Commander, 818th Air Divi-

sion, to speak at public meetings in each of the cities and towns which are located near the new Atlas sites.

"The need for these meetings," Colonel Corbin said, "is obvious. The advent of the missile era has created new weapons, and new concepts in carrying out our Nation's defense policies. The people of Nebraska are among the first in America to become closely associated with the Strategic Air Command's new missile weapon system. We feel that it is important that the public understands what is going on."

Following his introduction by Mayor Fred Marquardt, Colonel Corbin opened the program with a brief but detailed discussion of SAC's role in the new era of long-range ballistic missiles.

Touching on the threat that America faces today, he reminded the people of Avoca that the world tensions of 20 years ago were not unlike those of today. But he strongly emphasized that the measures necessary to meet that threat have changed drastically.

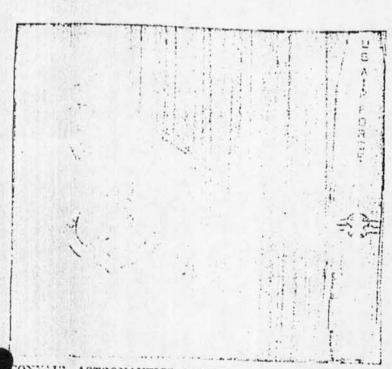
"Today," the Strategic Air Command Division Commander said, "we face an enemy tremendously more dangerous to our way of life than we did in the 1940's—an enemy dedicated to our annihilation."

The Colonel reminded his audience that now, for the first time in our history, a potential enemy has the capability to launch direct attack against the United States mainland, and that with long-range ballistic missiles he can launch that attack with-

in minutes.

"To counter this threat," Colonel Corbin pointed out, "the Strategic Air Command has maintained for more than a decade, a combat-ready alert system which provides the United States with an instantly ready retaliatory force capable of destroying

(Continued on Page 2.)



CONVAIR ASTRONAUTICS REPRESENTATIVE Frederick J. Childrens told the people of Avoca last night that the monthly payroll 6, the combined agencies working on the Atlas Missile sites in the area of the Lincoln complex will be about \$124 million at the peak of construction operation, expected in mid-1961. (Photo by

Bearg has holiday coming up .. no two-way radio in his plans.

First Holiday Missile Site Builders Two-Dey Breather

By Bess Jenkins

Men building the ring of missile si around Lincoln won't be working Chri mas but will take their first heliday sin the multi-million dollar job began ! spring.

Still, if this Sunday was a work day all days and Sundays have been since la April, it would be fairly easy to exchange "Merry Christmas" with workers at 12 sites and even the missile building copany's main office at Lincoln in short

It could be done over a two-way ra system providing rapid communication beween the complete field offices eperented by Western Centracting Corp. of the Supt. Roy Bearg, who comes from Chicago and lives in Lincoln. The field offices are trai'ers.

"There's nothing like it when a problem comes up, like clearing a question on a blueprint, getting some advice or order-ing some badly-needed equipment from the warehouse." the Chicago employe for Western continued.

The two-way radios may not have much use or much company the Monday after Christmas either.

"The men wanted to have that day off. tco, so their first holiday will be a long enc," explained project manager Mason

Fu. Vuesday these builders of the deep siles from which nuclear weapons can " the will second thousands of mile

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 23 December 1960

By Bill W. Dean

Associated Press Staff Writer

The missile age came to Nebraska in 2009; and in a big

Here are the impressive statistics:

-Nineteen launchers for 'tlas Intercontinental Ballislic Missiles are abuilding. the first already are armed! with their war birds and

Majaraska Nows

will be operational shortly.

-At each of 3 sites a dozen inuncious are being prepared for Mike-Hercules anti-

rasin will be in the neigh-arhead of \$200 million.

built onto the Stretegic Air Command's Offutt Air Force Base headquarters to house the new missile trainctory center. The center makes the complicated calculations necessary to put all SAC ballistic missiles or potential enemy targe s. Cost of the new center without its equipment was \$1.7 million.

-SAC headquarters also circre't missiles.

—The total cost of these special train of the type missile installations in Ne-which will be used as a roving launching platform for the Minutenan, an ICBM -An addition has been now in the development state.

Twelve of the Atlas missile missile Jaunchers will ring the city of Lincoln. The missiles will be encased in underground siles to protect them from all but direct hits from enemy bam's or missiles.

Mighty Costly Without birds or vertly expensive electronic goor, and activation cos s. the Lincoln complex will cost about \$45 million. It seems likely the complex will be operational hext year.

Nine Atlas launchers are, being built in the Umaha; area, 6 of them in Mebraska. limiton projects, before These are in clusters of 3 cetrenie geer: \$16.5 million. to a site unlike Lincoln's oneto-a-site launchers.

One cluster is at Mead, ar other near Arlington. The - " Valley

a Omnita complex mises lie in "unhardened" inchers signa his vie the around. The mean sites, with their top retristly sunk in the earth. o "har ared."

OMAHA DISTRICT WORLD HERALD, OMAHA, NEBRASKA 14 January 1961



Missile Speaker

Col. Thomas G. Corbin of the Lincoln Air Force Base will head a three-man team which will give Atlas missile talks at Cortland, York and Deatrice this month. Colone! Corbin is commander of the 818th Air Division. which will include the 551st Missile Squadron with its 12 launching sites within a 50-mile radius of Lincoln.

Last This Week The last of the launchers! as armed with its missile is week. The complex is pocted to be declared op-ational early in 1961. The cost of the Mead and he electronic equipment, st of activation and cost of e missiles will add another I million to this figure.

A hardened Atles site is so being byPt about 2 miles uthwest of Kimball as part a Cheyenne, Wyo., comex. The price tag, mians setronic equipment and atntien costs: \$3.6 million.

McClellan Orders Full-Scale Of Work Delays at Missile

Washington (UPI) — Sen. was postponed.

John McClellan (D-Ark) Sat- McClellan sa urday ordered a full-scale O'Donoghue, former chair-staff investigation of delays man of the court appointed caused by wildcat strikes and Board of Monitors for the other work stoppages at Cape Teamsters, also will be among Canaveral, Fla., and other the witnesses. big missile bases.

McClellan, chairman of the Senate Permanent Investigations Subcommittee, said in-formation from preliminary Rackets committee which developed through prelimiinquiries shows that millions McClellan also headed and of nary inquiries." of dollars have been lost with a "possible serious blow" to U.S. missile progress through work delays.

He said hearings will be held later after the subcommittee staff completes its preliminary work.

Teamster Hearings

Meantime, the investigating group opens public hearings Tuesday into charges of labor racket control of Teamster Unions in the New York

James Hoffa, stormy president of the big Teamsters Union, again will be in the spotlight as the major witness. The inquiry originally was scheduled for November but

Rackets Group

a follow-up to investigations base investigation on the

which Robert Kennedy, attor-McClellan said that Martin ney general-designate in the new administration, was chief counsel.

President-elect John Kennedy was a rackets committee member.

McClellan said the subcom-The Teamster hearings are mittee authorized the missile

On Atlas Deses

A team of Atlas Missile experts headed by Col. Thoma-G. Corbin, commander of the 818th Air Division at Lincoln Air Force Base will speak at 3 public meetings the mont in the southeast Nebraska area on the subject of the new Atlas Missile sites.

Along with Col. Corbin on the speaker's team are Co... Frederick H. Marsh, 613th Air Division Missile Maintenance Officer, and Frederick J. Childress of Conveir Astronautics, builders of the Atlas Missile.

The two Strategic A.r Command officers and one civilian representative of Convail Astronautics will sp ak at Cortland on the 17th. ' ork cr. the 18th, and Beatrice on the 25th.

Missile Experts Continue Tour

A three-man team of Atias Missile experts from I been AFB is scheduled to speal at three public meetings this booth beginning with Cortland, Neb., on Jan. 17.

The team will then in In York, Neb., on Jan. 24, and Beatrice, Neb., on Jan. 25.

Col. Thomas G. Corbin, Commander of the 818th Air Division, who heads the team, announced recently that this mouth's tour is part of a plan which began in. December with meetings in Avoca and Eagle, to address public meetings in each of the communities situated near the 12 new Atlas missile sites now under construction in this part of Nebraska.

The meetings are boing held so that the public will more fully understand why Alias Missile sites are being constructed in this area, what is involved in the construction program it if, and the role ballistic missiles play in the Strategic Air Command's new "mixed force" concert of assistance power.

The "mixed force of the manned bom bound inrange ballistic miles a smoothly blended come aligned to preserve id posture through deterrence.

by Colonel Corbin | ude | 1. 1 | Col. Frederick H. 1 | h, 1 | h

Air Division Missile Maintenance Officer and Mr. Frederick J. Childress of Convair Astronautics, builder of the Atlas Missile.

The highly informative 1½-hour presentation on the giant Atlas includes a number of color slides showing the new silo type sites in minute detail, a 16mm sound movies documenting the development of ballistic missiles and ends with an open question and answer period.

OMAHA DISTRICT E LINCOLN STAR, LINCOLN, NEBRASKA 21 January 1961

Missile Team Will Address Deciries Mee

Beatrice — A 3-man team of Atlas Missile experts from Lincoln Air Force Base has been invited to address a public meeting at the Featrice City Auditorium at 8 p.m. Wednesday, Jan. 25.

The speaker's team headed by the ranking Strategic Air Command officer in south-eastern Nebraska, Colonel Thomas G. Corbin who commands the 813th Air Division; Lt. Col. Frederick H. Marsh, Missile Maintenance Officer; and Frederick J. Childress of Convair - Astronautics will speak on the Atlas Missile sites row under construction in this part of Nebraska.

The program Wednesday night will feature an explanation of the Strategic Air Command's new intercontinental ballistic missiles and the role they play in the security of the U.S. today; the Atlas Missiles crews and their families . as new members of the community; and the building of the Atlas Missile by Convair-Astronautics. Pollowing the regular presentation which includes a new Air Force movie on missiles and satellites, the speakers will answer questions from the audience.

The meeting here Wednesday will be the 5th such public meeting held in cities and communities at uated near the 12 Atlas Missile sites presently under construction. Future meetings are to be held at Nebraska City, Tecumsen, Seward, Brainard, Emwood, Palmyra and Alber.

Missile Experts : . Set For Contabs

Beatrice (A) — A 3-man team of missile experts will speak at public meetings this week in Beatrice and Cort-land.

Heading the trio will be Col. Thomas G. Corbin, commander of the 818th Air Division, which will eventually include under its jurisdiction 12 launcher sites looping the southeast Nebraska area.

The hearing in Cortland will be Tuesday night. The one here will be at 8 p.m. Wednesday. The meetings are part of a series designed to explain missile operations to local groups.

CHIZORS LIGHT SAG

Missile Speaking Team

More than 700 people were on hand Wednesday evening at the York, Nebr., City Auditorium to take part in a public meeting at which they heard a three-man team of Strategic Air Command representatives discuss the new Atlas Missile sites now under construction in this part of Ne-

York is one of twelve communities within a 50-mile radius of Lincoln AFB where construction is already underway on the "silo" type Atlas missile sites.

The Wednesday night meeting at York was the fourth of a plauned program initiated by Col. Thomas G. Corbin, Commander of the 818th Air Division, to speak at public meetlugs in each of the cities and towns which are located near the new Atlas sites.

"The need for these meetings," Colonel Corbin said, "is obvious. The advent of the missile era s created new weapons and w concepts in carrying our nation's defense policies...

"The people of Nebraska are among the first in America to become closely associated with the Strategic Air Command's new missile weapon system. We feel that it is important that the public understands what is going on."

Following his introduction by Mayor Miller of York, Colonel Corbin opened the program with a brief but detailed discussion of the Strategic Air Command's role in the new era of longrange ballistic missiles.

Touching on the threat America faces today, he reminded the people of York that the worldtensions of two years ago were not unlike those of today. But, he strongly emphasized that the measures necessary to meet that have changed drastically.

"Today," the division commander said, "we fare an enemy tremendously more dangerous to our way of life the we did in the 1910's-an ency dedicated to our annihilation."

dience that now, for the first launch direct attack against the United States m land, and that with long-range ballistic cities throughout Nebraska." missiles he can lamb that attack within minute-

l'ian a dec-

nge 9)

nlert sys-

"To counter this Great," Colonel Corbin point out, "The Strategic Air Comand has maintained for me ade, a combat-rea tem which provide States with an instantly ready. retaliatory force emable of destroying an enemy capability, and mat g it totally unprofitable, if no suicidal to attack us."

He went on to ballistic missile alf Atlas sites being (Continued o

Speakers

(Continued from Page 3)

Nebraska, will take their place alongside the manned jet bombers in providing our country with the modern mixed force of missiles and bombers necessary to maintain our security.

Then, in explaining the reason for the placing of Atlas Intercontinental Ballistic Missiles in Nebraska, Colonel Corbin stated:

"To be effective as a deterrent force and effective it must be if we are to survive, our long-range jet bombers and missiles must be dispersed over as wide an area as possible. This dispersal of retaliatory forces is necessary to make it as near to impossible as we can for an enemy to knock us out before we can strike back."

"This is why" he said, "the Strategic Air Command must The colonel reminded his au- spread out its forces over vast areas heretofore remote from time in our history, a potential military activities directly linked enemy has the apability to with our Nation's defense; why Atlas Missile crews will soon be living in a number of towns and

> Following a color film which covered the development and construction phases of the giant Atlas, Frederick J. Childress, who represents Convair-Astronautics, spoke in detail on the local-site construction programs.

the United 7 In discussing the Atlas Missile "silo" type site being constructed near York and at other locations in Nebraska, Childress gave ar-making out some statistics.

"The silo" he pointed out, "is a round hole measuring 52 feet at out that across and 174 feet deep. Durmeh as the nig excavation, 71,000 cubic yards structed in of earth are moved. The sides of the silo are made of reinforced concrete that runs from about two feet thick at the bottom to about 9 feet thick at the top. Some 1,000 ready-mix truck lloads of concrete are needed to pour the 6,000 cubic yards of concrete that go into the silo walls."

Childress went on to describe the engineering ingenuity ingenuity involved in the silo construction. "The steel frame-work within the silo" he said, "is equal in height to an 18-story building, weighs 1,500 tons and hangs, shock mounted on giant steel springs as big around and as long as a telegraph pole."

According to Childress, the shock mounting allows a twofoot "rattle space" between the framework and the concrete sides of the silo to prevent damage from earth tremors.

He also called attention to the fact that the Atlas sites will have their own source of electrical power and will be able t generate enough power to suppl an average city of 30,000 papers tion.

Then, touching on the confre room which adjoins the sic Childress poincid out that the electrical wiring necessary it launch control would strete from Lincoln to Dallas, Tex.

In closing, the Convair reprsentative turned to the subject of local civilian employment. ". has been estimated," Children said, "that at the peak of il construction operation, ti monthly payroll for the con bined agencies will run about or and three-quarters million de

"The Convair payroll will ru about three-quarters of a millio There will be a gradual build of civilian personnel which w reach a peak in mid-1961 of a most 2600 families."

"About 1,000 of these far llies" he said, "will be re-locat in the Lincoln and southern A braska area, and many will looking for houses to rent in t towns close to the silos."

Childress said that it is Co vair policy to hire locally as ma qualified people as possible a that present foreseasts call . hiring some 5-600 hundred lo. people between March and A gust of 1961.

To facilitate hiring, Conv. Astronautics will open an c ployment office sometime March and will have a rem sentative travel from town town to interview applicants.

Nike . . . ready

Missile

Impact Continues

The Missile Age continues to have its impact on Lincoln and nearby towns and no slack is seen in 1961 — or later.

Twelve of Nebraska's 19 Atlas missile launching sites are near the Capital City. They will be encased in underground silos and construction-installation operations will continue through 1961.

Excluding the actual missiles and their vastly expensive electronic gear, the Lincoln complex costs will hit the \$45 million mark.

Total cost of all missile sites and installations in the state will be in the astronomical area of \$200 million.

Three Nike Hercules defense missile sites are manned

and ready. They are at Crete, Agnew and Louisville.

Omaha will have 9 Atlas launchers, 6 in Nebraska. These are in clusters of 3 to a site, one at Mead, another at Arlington and the third at Missouri Valley, Ia. All are above ground sites, in contrast to Lincoln's underground, hardened concrete silos.

The Omaha sites have received actual missiles and probably will be declared operational soon.

Another Atlas site, a hardened one, is being built near Kimball as part of a Cheyenne, Wyo., complex.

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 27 January 1961

Affes Missile Deses Operational in April

OMAHA - Atlas missile laureh. ing bases in the Omaha Lincoln area will not become operational until mid-Arril, a month or n beyond the latest public estimate.

The Air Force explained tha was necessary to provide additional time for proving the conplex equipment with its can not sile men doing the operating.

The target date for operation now is some four to five mon behind the original goal. Early delays were caused by work sto pages, design changes and the

> HA DISTRICT LINCOLN JOU AL, LINCOLN, NEBRASKA 2 ebruary 1961

Alles Work On Schedule Area System Is

76 Complete

Construction of the Lincoln Atla mi le system is on schedule ys project man-Travis of Westager Ma ern Conti ing Corp.

He said the system of 12 launcher s ringing the Lincoln commentity is 76.6% com-

"The wather has been pretty mu in our favor and no union implications have occurred slow down our schedule.' Travis said.

Complet of the 12-site construction for which the Army Eng ers Corps is responsible Western is the! contra rm. is scheduled! for late Ju

If the Ot of missile system, pattern is a lowed at the Lincoin siles, se eleutronic installation work depe by Con-Missis Philos Impervious vall begin to spin 37.

Missile Licet Draws Many Despite Cold

Beatrice (UPI) - Despite near zero temperatures and blowing snow, some 450 residents of Beatrice attended the public meeting in the City Auditorium where thew heard a detailed account of the Atias Missile program now under way in southeastern Nebraska.

The team of Atlas Missile experts from Lincoln Air Force Pase, who have also spoken at public meetings in Avoca, Eagle, Cortland and York in the past 6 weeks, was headed by Col. Thomas G. Corbin, ranking Strategic Air Command offcer in Southeast Nebraska and commander of the 818th air division. Other speakers were Lt. Col. Frederick H. Marsh, 818th missile maintenance officer, and Frederick J. Childress of Convair-Astronautics.

Queries Answered At the conclusion of the regular presentation, which included detailed slides showing missile site construction and a 16-millimeter move ion Air Force and movie on space satellites. Col. Corbin answered questions from the audience for more than 30 minutes.

Beatrice is one of the cities and towns in southeast Nebraska situated within a few miles of the 12 new Atlas Missile "silo" type sites present-

ly under construction.

During February and

March the LAFB speakers
plan to appear at public meetings in Nebraska City, Elmwood, David City, Seward, Palmyra, Tecumseh, and Wilber.

"Atlas Base Activation Is Delayed

New Target Date

Month Off Schedule

Omaha (A) — Atlas missile launching bases in the Omaha-Lincoln area will not become operational until mid-April, a month or more beyond the latest estimate made public.

The Air Force said the reason for the delay is to provide an additional period for proving the complex equipment with its own missile men doing the operating.

The new target date is some 4 to 5 months behind the original goal. Earlier delays were caused by labor stoppages, design changes and the like.

the like.

Under the training program being planned civilian technicians of Convair Astronautics and other companies working on the project probably will work with Strategic Air Command missile menduring the extra month.

"STAR" 14 Feb 61 Truck Mishap Near Lincoln

Robert P. Forey of Omaha was fatally injured Monday noon when the truck he was driving rolled over on State 2 about one mile east of 48th

Forey, 37, was employed by the Power Engineering Co. of 317 Havelock in Lincoln, but ved in Omaha.

Chief Dep. Co. Atty. Wil-am Blue said Forey's west-ound truck went off onto the orth shoulder of the road, werved across the highway and rolled over into a ditch in the south side of the road. Ilue said Forey was thrown rom the truck and it rolled ver him.

Blue said Forey was pinned nder the truck and died ortly after being taken to Lincoln hospital.

Forey's death was the sec-nd traffic death in Lancasr County this year com-ared with none at this time year ago.

Morrison Visits LAFB Facilities

Gov. Frank Morrison will make his first official visit to the Lincoln Air Force Base Wadnesday at the invitation of Col. Thomas G. Corbin, commander, 818th Air Divi-

Col. Corbin and other senior officers will give the governor a detailed briefing of the air command mission and the role of 818th Air Division and escort him on a tour of the base.

After the tour. Gov. Morrisen will visit one of the 12 new Atlas missile sites now under construction in southen tern Nebraska. To conwill be honored at a luncheon in the officers club.

Governor

By Virgil Falloon

Gov. Frank Morrison was given a glimpse of the Strategic Air Command's defense capabilities in the space age Wednesday in a tour and briefing at Lincoln Air Force Base.

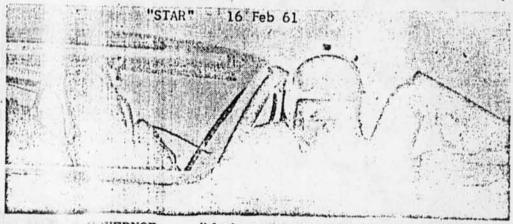
Nebraska's chief executive made his first official visit to the SAC base as guest of Col. Thomas G. Corbin, 818th Air Division commander.

Beginning shortly after 9 a.m., the governor and his administrative assistant, Norman Otto, were briefed in detail on the mission and role of the air division and base, both as to its manned bombers and Atlas missile program.

Then at the base's "alert shack," Gov. Morrison heard the 'whistle' blow and watched combat-ready crews race to their waiting B-47 stratojet bombers.

The "bravo" alert ends when engines of all planes have been started, ready for takeoff. Something less than

LAFB Defenses



(VERNOR . . . "checks out" in B-47. (Star Staff Photo.)

6 minutes had hapsed until Atlas missile site northwest the missile's underground silo the last plane ould also of the base — about 20 min-have been on way. of the base — about 20 min-utes distance. It is one of 12 Lt. Col. H. L. Schroeder, who After lunch, governor in this region. was flown by he opter to an He was conducted through

are in charge of the missile construction program in this area.

After the 61/2-hour tour, Gov. Morrison said he was "very much impressed with the base and its personnel — especially their dedication to duty."

On the missile installation, the governor said "every American ought to have the opportunity to see this."

"It's our chief contact in Nebraska with the space age," he said. "It represents millions and millions of do llars, but it is only the beginning of what's necessary if we're going to compete with Russia and other countries in the utilization et

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 16 February 1961

OMAHA DISTRICT WORLD HERALD, CMAHA, NEBRASKA 15 February 1961

Missile Experts Planning Meet At Nebraska City

Nebraska City — Mayor Evin Rogers has announced that a 3-man team of Atlas missile experts from Lincoln Air Force Base will address a public meeting here Tuesday, Feb. 21, at the National

Guard Armory.

The speaker's team headed by Col. Thomas G. Corbin, commander. 818th Air Divi-sion, with Lt. Col. Frederick H. Marsh, 318th missile mainlenance officer, and Frederick J. Childress of Convair-Astronautics, will speak on the Strategic Air Command's new Atlas missile program and how it affects the resi-dents in this area.

Approximately 1,300 persons attended the missile meetings held last month in Cortland, York and Beatrice.

Tour Planned by Governor

Morrison Will Visit Base, Missile Sites

Lincoln (AP) - Gov. Frank Morrison will make his first visit to the Lincoln Air Force Base Wednesday at the invitation of Col. Thomas G. Corbin, commander, 818th Air Division.

After a tour of the base, Governor Morrison will visit one of the 12 new Atlas missile sites now under construction in Southeastern Nc-

A new million-dollar liquid oxygen plant at the base will be inspected by Southeastern Nebraska newsmen Thursday. The plant is one of two new major structures at the base directly connected with the Atlas ICBM program,

OMAHA LIS CT THE LINCOLN STAR | OLN, NEBRASKA 15 Fe 1961

AF Slates Tour C Daygen Plant

A new million dollar liquidic. oxygen plant at the Lincoln Air Force Base will be in the spected by southeastern In section at the base. braska newsmen Thursday.

The plant is one of two ne major structures at the base directly connected with the atlas ICBM program and in-12 "silo" type sites located within a 50-mile radius of the

Operating on a 24-hour b sis, the plant will produce liquid oxygen and liquid patrogen for the Atlas missiles, and also will provide "breathing" oxygen for B47 and KC97

missile maintenance ling is still under con-

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBRASKA 16 February 1961

LAFB's New Liquid Oxygen Plant Shown; Output Is 28 Tons Daily

By Ron Gibson

Nebraska's most exotic gas station-a liquid oxygen man-ufacturing plant at Lincoln Air Force Base-was shown off for the first time Thursday.

The million-dollar plant now nearing completion, can produce 28.2 tens (a be ut and the compressed air is 5,000 gallens) of liquid oxy-then rapidly decompressed to gen or LON daily. Liquid oxygen is one of the two fuel! components of the Allas mis-

las missile bases which cir- then. LOX. cle the city. It also produces | When mixed with Rocket | An explosion would probliquid nitrogen, used for freez- Preparent-1 in the combustion ably destroy the plant. Ma-

a 3rd function. Its liquid recrime on its way.

oxygen is also to be used for This sort of fuel is cantank-

air crews, which are now sup-| The plant's production will plied by a smaller plant.

The LOX plant looks like a sites. giant still.

Air Compressed

Ordinary air is compressed rapidly, to a pressure of 3,000 pounds per square inch. Heat a pressure of 70-20 pounds.
The apid decompression

breathing oxygen by LAFB crous and hard to handle.

be tank-trucked to the 12

LOX is a pale blue liquid. "If you poured it out of a container, it probably wouldn't hit the ground,' said Maj. Arthur W. Rasco. LOX plant officer. "It would just dissipate in the air."

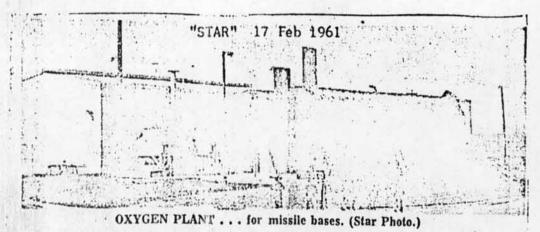
But-

Can Burn

If you get some of the plunge the temperature of stuff on you, you suffer the The Lincoln plant will purnit becomes liquid—at minus burn. If LOX contacts any uncture LOX for the 12 At- 297 decrees Fahrenheit. This, petroleum-base product, there is instant combustion.

chamber of an Atlas, LOX igior Rasco said, but wouldn't
nites and sends the missile damage B47 jet bombers
ard function. Its liquid rearing on its way.

Still, Maj. Rasco said, he's giving up pipe-smoking.



Plant Near Operation Stage

By Del Harding

in operation in about a month, will provide liquid oxygen for the fuel system of the Atlas jacent to the plant provide intercontinental ballistic mission ge space for the liquid ture liquid nitrogen for use trailers will load up at the at the Atlas sites.

plant which will supply the ducing 5,000 gallons of liquid the launching sites.

12 Lincoln-area Atlas missile oxygen daily. A secondary Maj. Rasco said sites was thrown open to function will be production of newsmen for a tour Thursday. "breathing oxygen" for Lin-"breathing oxygen" for Lin-The plant, scheduled to be coln Air Force Base aircraft. Trucked To Sites

siles and also will manufac- oxygon and nitrogen. Truck the Atlas sites.

Maj. Arthur W. Rasco, 12 Allas sites within a 50-

By Del Harding plant commander, said the mile radius of Lincoln to The \$1 million liquid oxygen plant will be capable of prostock similar storage tanks at

Maj. Rasco said the basic procedure for producing the liquid oxygen and nitrogen is taking normal air such as that we breath and then compressing it to a pressure of 3,000 pounds per square inch. Then the air is rapidly decompressed to a pressure of about 70 to 90 pounds per square inch and the result is liquid oxygen and nitrogen, which is then refined for use.

Dissipates

Constant replenishing of the storage tanks at the plant and at the missile sites is necessary because the tanks' contents are not stored under pressure and therefore dissipate into the atmosphere.

The liquid oxygen is highly volatile. Maj. Rasco conceded that an accident at the plant itself could result in the plant being "obliterated."

But he said the damage would probably not extend as far as the base flight line about a half-mile away, and that certainly Lincolnites need have no fears along this line.

Sunday Journal & Star Is Missile Lag Really On Bases?

Experts May Ask Speedup

Chleago News World Service Washington - President Kennnedy is momentarily expecting the information he has requested to help him make a judgment on the state of America's defenses.

What about the "missile gap?" What about the U.S. capacity to fight "brush fire" wars? Should more money be spent on defense beyond the \$41.9 billion recommended by President Eisenhower?

These are among the questions covered in a Defense Dept. reappraisal now being completed on orders from the new commander-in-chief.

Military experts here be-lieve they know the line of thinking that will be sug-gested to Kennedy on the question of whether the U.S. missile effort is great enough to match that of the Russians.

Short of Base

If they are right, the President's attention will be called to the urgent need of breaking the bottleneck in the construction of missile bases.

"We can forn out Atlases pretty fast new but we don't have the bases to send them to, once they're built," an expert explained.

About 25 bases have been programmed for the 27 squadrons of Atlas and Titan intercontinental missiles now being produced. But to date, only two are finished and in use - one in California, the

other in Wyoming.

These 27 squadrons represent a total of 270 missiles.

It's not thought likely that the President will decide to increase this number. His view is expected to be the same as Eisenhower's on this.

New Missile

It might be expressed along these lines:

"We have a new push-button missile coming along, the Minuteman. Let's give that priority, instead of spending any more money on these less-efficient first generation missiles.'

In the meantime, however, the President will have to decide whether he wants to put part of the bombers of the Strategic Air Command in the air on a continuous alert.

"There's no way of putting even a small percentage of the bomber force on alert inside of 6 months," authorita-tive sources say. "To put 25 per cent on alert would require a year."

OMAHA DISTRIO OMAHA WORLD HERALD, OMAHA NI 27 February 3 1

NEBRASKA

Site Builder Atlas Loser

12 Millions Is Guess the of Sioux City Man

Ward-Herald Washington Bureau, 1220-22 National Press Building.

The contractor building the trate Atias missile sites around the S17 Lincoln Air Force Base is may projecting a 12-million-dollar lion

loss for the job.

That was the testimony, made public Sunday by the House Appropriations Committee, of Garland Everist of Sioux City, la., president of the Western Contracting Corporation that is constructing the 12 operational bases where the giant Atlases will be situated.

Fixed Price Criticized

int. Everist was highly critical of the fixed-price policy under which his company hid for and you the contract and proposed that all existing fixed-price construction contracts in the hallistic missile program he converted to a cost reimbursable basis.

He was one of several heard by the committee. Others also told of losing money. An exception was Peter Kiewit Sons

of Omaha.

The Sioux City contractor pointed out that the Lincoln job meant construction of hardened sites over an area as large as the state of Connecticut.

Lot of Changes

He said that the Government, in developing the Atlas at the same time complexes were being built, had brought "a continuous stream" of changes, audifications and design growth.

Modifications have affected 312 pages of the 476 pages of specifications, he declared;

Conscribed piece of elecnical control equipment has been modified eight times, said Everist.

he untractor submits clair to the Government for ditional cost involved. On e ci ms denied, the for a go to court. COD" fina dal burden of DELL ing lixed-price conwhich originally was .000 and which ultiwill grow to 48 million lars to enormous," Mr. Eve said

"Ne Problems"

how how as H. Paul, vicepresent of liewit, declared:
"In the contractors have
been too this hearing to
tell out the roubles or
protest, I would like to say
that have no problems that
can be ended equitably
und the endard form of
flow men contract under
which we re working."

Kiewit is building a Titan ICBM project at Beale Air Force Base Marysville, Cal.

Mr. Every pointed out that Titan bases are three areas of construction to be performed in 13 to-15 months.

T Fertality At Contland Site

Lincoln area Atias construction, scheduled to be completed by mid-1861, is somewhat similar to the Roswell installation. The Lincoln construction has claimed one life and recorded one serious injury as a result of work in the silo pits.

A 24-year-old worker fell to his death last November while tying reinforcing steel together on the wall of the Atlas missile silo near Cortland. He was Delbert T. Ryan of St. Peter, Minn.

Another workman recovered from serious injury caused when he was working at the bottom of the silo pit and was struck by a piece of piping which dislodged and fell. The worker, Howard Neiswanger of Lincoln, was saved from death by a safety hat he was wearing while working at the Atlas site near Wilber.

"JOURNAL" . By harren Zimmerman The Journal Bureau

Washington-The president of the company that is lightly idelays." ing 12 Mins missile says near Lincoln has told a lousel. "He was half right; no excommittee that his company expects to lose and nuclion, tensions were given, but deon the project as a result of modifications in the opening lays were not paid for either. contract. Garland Everist, president of Western Contract. so we ended up by financing contract.

Garland Everist, president because of refusal to of Western Contracting Corp. of Sioux City, In., blame, the Army oCrps of Engineers for most of the lasses Western

naver it spoke before the m mare construction subcan mittee of the House Appropriations for mittee in testhrony watch ras just been reimsed.

hed to Contract

said that, despite moditions in 312 pages of the nal 476 pages of specifi-s. Western was bing completion date this summer. function timewise?" Everist said:

"Our efforts to proce i are rendered ineffectual it the lack of prompt and ur libited direction from the carps of Engineers or succesful handling of the day-day problems in in f. . unusual work. nck dunitury action ! 10 1 "gram results in water effects, inrod elvity efficiency. and greatly mercases the

Convert Frensed Everist a. Sand the Convair Adriances, w is is building to Allas iles themselves ere res: ible for delaying work at ... ites completed portions (the be housed.

"Convair people me ing all over the sils," I sorhave approved it at mine lion. previous point."

Everist was asked by oub- controversy. committee chairman il my to its original comment the picture to retard y

Answer is Yes

Everist answered ship with the Corps of 5 neers."

Everist complained t Western's contract was the Corps of Englishers Convair, the hir Force others also were evaluating

150

of

1-

to

16

"Validation of portion this work we are doing ap ently has to be done by vair before we can sell the Corps of Engineers," said.

He said that the coups of inal contracting officer as coln told him that the C was "solely responsible or the execution of the man Delays could be paid for time extensions could not given.

"He was half right no tensions were given, i...

27 Feb 61 plays were not paid for either, there were regular technologso we wound up by financing ical breakth a his in missile

program."

crib in which the missile will 80% complete, and is on the original progress schedule."

He added that total conist said, "apparent) che mag tract modifications cost Westout the work we are anglern-523 million and that the so when they take it from Corps of Engineers has alsome other agency, the will lowed payment of only \$3 mil-

The rest of the money is in

Asked if he felt that West-R. Sheppard (D-Calif) (1980-) ern was entitled to \$23 milfar as Convair is concerned, lion, he replied, "We would they are not intervening ato probably settle for less."

7 1 Everist was one of several corporation executives who -testifice in favor of a change the type of contract that Everist answered that they are, in their total bala, is used in the construction of i. missile sites.

As now set up, the contract is awarded the low bidder. h who is often made to bear the expense of iner changes d, in the original contract.

The change recommended would allow the contractor a set fee and would compel the government to absorb the extra cost of contract modifications.

Western was awarded a \$17,400,000 contract for 9 Atlas sites in the Lincoln area. The gure was raised to \$24 million when 3 new sites were ndde. y Everist's testimony, a. the cost of lats, modifier tions It was almost as much as the sum in the revised derivact, and Western was forced to foot most of the bill.

"We have no quarre! with federal government," commented Western Project Lanager Mason Travis in Lin-

He indicated that as long as

development. these changes will be added to any missile building.

Travis said the developdelays, or the actays of the ments particularly have hit the Atias F or sile, hardened Everist noted that as of sites like the one here, and Feb. 1. "our contract was at Salina, Kan., Altus, Okla.,

Abilene, Kan., Dyas, Texas and Roswell, N.M.

"I look for the same construction complications to be experienced when the Minuteman missile is ready for a national program," Travis said.

As of today, Travis said Lincoln's 12 sites are 85% complete.

"Mass"

Congressional investigators said Sunday the Air Force missile base construction program is a "mess," with costs up \$100 million over estimates, and the contractor for Lincoln area Atlas sites said modifications had added 1,214 technical drawings to the original contract. Story on Page 13.

By David Burnham United Press International Air Ferce program for con-level management to exerstruction of missile launchers cise proper control." is in a mess, with cost estimetes now running nearly investigators, the Defense De-Sic) million higher than origmai contracts.

tary Construction Subcommit- original contracts. tee in a report on an inquiry into claborate missile sites now being built at some 20 Air Force bases in the United States.

Commenting on testimony taken tenind closed doors, subcommittee chairman Harry R. Sheppard, D-Calif., said "any way you look at this program things are in a mess."

He said there had been system.

27 Feb 1961

Mork Said Mess

Washington (UPI) - House this program has been charinvestigators said Sunday the acterized by a failure of top-

In a chart prepared for the partment said final construction costs now are estimated The new estimates were at \$992 million, as against disclosed by the House Mili- costs of \$399 million in the

> Sources close to the subcommittee told United Press interschedules.

Testimony from 29 military and construction witnesses sharply etched the problems encountered by the Air Force, Army Corps of Engineers and contractors in building the multi-million dollar missile

timated these changes would! add more than \$16 million to the original \$23 million contract.

The contractor working on an Atlas base surrounding Lincoln Air Force Base, Neb., said medifications had added national that actutal work was 1,214 technical drawings to 6 to 9 months behind original; the 355 drawings included in the original contract.

Most of the contractors were highly critical of the Defense Department but conceded that the nation's need for missiles was an overriding consideration.

Garland Everist, president of the Western Contracting

some improvement in the last. The contractor building a Corp. of Sioux City, Iowa, few months but "all too long missile site near Ellsworth said "our efforts to proceed Air Force Base, S.D., told the are rendered ineffectual by subcommittee there had been the lack of prompt and unlaunchers between December corps of engineers for the 1959, and Feb., 1961. He es- successful handling of such complex and unusual work."

> A number of contractors called on the government to drop its present fixed-price contracts on missile work and adopt a contract which would give the builders a guaranteed profit.

Missile Contractor Critical Of 'Lack Of Unitary Action'

. . . Everist Attacks Military Fiscal Policies

tor building a system of mis- He said the modifications sile bases in the Lincoln area were "forced upon us with has complained to Congress no extension of contract that "lack of unitary action" is causing "wasted effort, in-efficiency, low productivity and greatly increases the ov-er-all cost."

The contractor, Garland Everist of Sioux City, Ia., told tractors and supplies "have a House appropriations subcommittee military fiscal policies have created an enormous financial burden for him.

Everist is one of a group at Lincoln."
of contractors heard by the He reques committee as it probed de-lays and what Chairman Harry Sheppard, D-Calif., called "a mess" in the mis-

sile base program. Everist said his company, Western Contracting Corporation, submitted the low bid of \$17.4 million to build 9 bases, with final completion scheduled for May 23, 1931. The contract later was augmented to provide for 12

Contract modifications to date, he said, have affected 312 pages of the original 476 pages of specifications, and 1,214 new drawings have been

"The magnitude of change within the program," he said, "looms larger each day. This acts to deter the timely and economical completion of the construction work. Our efforts to proceed are rendered ineffectual by the lack of prompt and uninhibited direction from the Corps of Engineers for successful handling of the day-to-day problems involved in such complex and unusual work."

'Enormous Burden' The financial burden of performing a fix price contract which originally was \$17.4 million and will grow to \$48

Washington (A) - A contrac-| million, he said, is enormous. time."

Everist said supplemental payments have not been of the magnitude that "reflects the cost to us." He added that his company, its subconbeen required to finance the federal government in this undertaking" and at present "we project a \$12 million loss

He requested prompt congressional action for the immediate payment for the cost of work and services.

Asked if he wanted the contract changed from the fixedcost type to a cost-plus basis, Everist replied.

"To a cost reimbursable contract. As far as I am concerned, this plus part you can leave out. I am trying to get rid of the minus part of it.

construction began in the Lincoln area, according to Col. John Minahan, Corps of Engincers area engineer.

Speaking to the Engineer's Club of Lincoln, he said this

Change in Atlas Site Plans Cited

More than 50% of the original plans for Atlas missile inges in the missile itself. Seward site, retarding consites have been changed since and overall structure of the struction by 90 days.

We have had to set up elab-te de-watering systems. "However, the Engineers ditch."

"As to the report that 85% The major problem we of the sites are complete, this e faced is the forever does not mean we are almost ring underground rivers," through. The final 15% will Minahan said.

be the hardest," the colonel

aping water constantly out expect to have their work the nearest river or run- complete this summer," he concluded.

OMAHA DISTRICT WORLD HERALD, OMAHA, NEBRASKA 1 March 1961

Water Problem at Missile Sites

Lincoln (AP)—An engineer for the Atlan missile sites in Nebraska and Tuesday that more than the per cent of the original plans for the installations have thanged since construction began.

Col. John Alinahan, area engineer for the Corps of Engineers, said the changes were due primarily to changes in the missile said, and the over-all plan for the silos.

"The major problem we have faced is the forever flowing underground rivers," Colonel Mindian said before the Engineers Club of Lincoln.

The most tenter was at the Seward site, retarding construction by 10 days.

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 2 March 1961

'Missile Sites Bring Security'

Lincoln Star Special
Elmwood — Any way you look at it, construction of Atlas Missile sites in Nebraska assures security.

Economically, jobs are opened.

Defensively, weak links are closed.

Generally, this theme was presented here Wednesday night by Col. Thomas Corbin, commander, \$18th Air Division; Lt. Col Frederick Marsh, missile maintenance officer; and Frederick Childress of Convair-Astronautics.

Elmwood is one of 12 communities near Arlas Missile launch-sites now under c onstruction in southeastern Nebraska. All sites are within a 50-mile radius of Lincoln

Other meetings this month will be held at Tecumseh and Palmyra. April's meeting list shows confabs at Seward, Wilber and Brainard.

The meetings are set up to explain functions of the sites.

Missile Defense Need Cited For Legislature by Trudeau

By Ellis R.H

fective anti-missil defense Zeus anti-missile missile, told gress by the outgoing Eisensystem and stepped up civil the Legislature that it is im- hower administration, prodefense was outlined in Lin-portant to Nebrashans that yided \$250 million for testing coln by one of the nation's top military-statesmen.

He is Lt. Gen. Arthur G. Trudeau, the Army's chief of research and development, who opened the governor's "Heartland Forum" with an address to the Nebraska Legislature.

Gov. Frank Morrison's Heartland Forum program will bring into the state leaders in government, military. business and labor to present issues of the day.

A pressure need or an ef- father of the Army's Nike- next fiscal year, sent to Conan anti-missile defense sys-, the Nike-Zeus. No funds for tem will be developed, not actual production were includonly to meet the ICBM threat ed. of today but to defend against .. Gen. Trudeau is pushing for missile threats of tomorrow i

It will take about 4 years after congressional authorization and funds for production of the Zeus to have the antimissile defense system operational, he said.

Gen. Trudeau said he believes the Zeus is well enough developed to begin production

Gen. Trudeau, known as the! The defense budget for the

an addition of \$270 million so that the program can be accelerated and units of the missile can be on the firing line by 1964.

In Nebraska, Omaha is the Strategic Air Command headquarters and a SAC air base is located at Lincoln. Both cities are in the process Continued on Page 8, Col.,7



Gen. Trudeau precedes Unio meral talk.

Trudeon:

Take Hoek

Continued from Page 1 of being ringed by missile sites.

"This defense problem is not only an Army problem -it is a problem for the entire nation," he told the Legislature.

Gen. Trudean said there is "a growing need for Ameri-cans in this land to become more security conscious."

"Time is fast approaching when we must take stock of our civil defense - critically re-examine its structure to see we have taken all measures necessary for protection of our people," he said.

An ef ective anti-missile defense system and an adequate civil defense program "means throwing away of the twoedged sword demanded by today's challenge," he said.

"Should the Soviets be first to develop an effective antimissile missile and install it as protection for crucial centers of their population, industry and military mightthey will have taken a giant step toward neutralizing the retalitory striking power of the free world," the development chief warned.

Most Powerful

He said the 450,000 pound thrust Zeus booster engine is the most powerful single-unit, solid propellant motor successfully fired in the free world.

"There is an urgent requirement for such a defensive weapon while we seek a meaningful peace." he said.

It has already been proven that there ": no magic" in knocking down a ballistic missile. With the computer equipment available, he said, it is not too great a trick to track a missile.

No defense system is foolproof, he warned, and businesses, factories and homes should be equipped with fallout shelters.

He noted some people are, now building their own shelters, but micat are confused and looking for more suldance. which he indicate. Toma bel coming from Washington.

manned bombers or used chiefly as a launching complex for Atlas ICBM still awaits decision.

Nor has the Strate Air Command indicated up how long the present two wings of B47 medium lambers will be kept in serve.

If the Air Force declars to replace the older B47; with newer designs at line the replacements could be ofther the B52 long range her les or the supersonic Born mis.

The program for ingeover from B47s to ne aircraft started more than two years ago .For con to B52 wing going into corrate two B47 units are disband

Total Limited

in the medium bomb is on a one-for-one ba B58 wing for one B47 outfit. business.

Washington M-To es- However, the total of B58s to tion of whether the i oln, be produced is limited, indi-Neb., Air Force Base be cating that only a few B58 continued as an airdren for wings will be equipped.

By next July, the Air Force expects to have 14 B52 heavy bomber wings in operation.

In addition to the two B47 wings. Lincoln AFB also has a KC97 tanker squadron and one Air National Guard interceptor outfit. This squadron : presently flies the older F86 Saberjets, but under the modernization program is expected to be re-equipped with supersonic fighters.

Launchers Under Way Construction of "silo" type launching sites for missiles, placed in the general area of Lincoln AFB, began last April. This construction will require from one and a half to two years for completion.

When the launching sites are completed, checked out The replacement param and the missiles on hand, the field 551st Strategic Missile Squadone ron of SAC will be ready for

Frobers Want

Missile Czar

Building
Of Bases

ASSAILED Nar 61

Contract Costs

Compiled From News Wires
Washington — House investigators charged that sloppy
Lanagement threatens the
completion of the nation's
billion dollar missile base
program and may push construction costs to "alarming
proportions."

They called for the immediate appointment of a construction ezar to "bring order and direction" to the program.

The sweeping indictment of Air Force construction management came from a House appropriations subcommittee. It heard evidence indicating the program will cost about \$100 million more than the original contracts.

Full Responsibility

The subcommittee said "immediate remedial action must be taken to successfully prosecute this essential defers program" and estimated construction costs for the missile bases would approach S2 billion during the fiscal year beginning July 1.

"It is essential," the report said, "that the present divided, duplicating and often indefinite responsibilities be eliminated . . ." The House group said the construction ezar should be charged with the full responsibility for the successful prosecution of this program and given complete authority to fulfill this responsibility.

The report said the "division of responsibility within the Air Force and the Corps of Engineers coupled with an abnormally large number of change orders and modifications... threater to push costs to clarming proportions."

Cost Estimates

While the Air Force apparently has solved the problem of providing the missiles, the committee said, "It has not, however, solved the many major problems besetting the construction portion of this program."

Another program fault, the committee said, "Is the inadequate authority of the contracting officer to promptly negotiate with the contractor for the seutlement of change orders.

"He has been drastically hampered by far too many people constantly looking over his shoulder and by restrictions placed upon him not to exceed a certain percentage of the government estimate... which in many instances have been grossly inacequate."

As an example of "grossly inadequate" cost estimates for plan changes, the committee cited the Lowry Air Force missile base in Colorado. It said preliminary estimates ranged from \$51,011 to \$500,000, while the final settlement cost was \$2,237,373.

CHAMA MOLLO SEARLD

'Construction Snafus Threaten Program'

Washington (AP)-The House Appropriations Com-mittee Friday called for a "czar" over the missile program to cut costs and end divided responsibility.

It acted on recommendation of a subcommittee which recently heard testimony that the program has been delayed and costs increased because of divided and duplicated responsibilities.

While the Air Force apparently has solved the problem of providing the missiles, the committee said, "it has not, however, solved the many major problems besetting the construction portion of this program."

'Alarming Proportions'

It said divided responsibility within the Air Force and between it and the Army's Corps of Engineers, "coupled with an abnormally large number of change orders and modifications and other problems, threaten to push costs to alarming proportions."

The present set-up, the com-mittee said, "threatens the well-being of the entire sys-

tem," and added:
"It is essential that the present divided, duplicating and often indefinite responsibilities be eliminated and an organizational structure provided which will give specific authority and continuity of direction to the program."

'Complete Authority'

To direct the entire program, the committee said, there should be "a single head esponsible directly to the Chief of Staff and the Secre-

tary of the Air Force."
"The person filling this position." the committee said, "should be charged with the full responsibility for the successful prosecution of this program and given complete authority to fulfill this responsibility."

Another program fault, the committee said, "is the inadequate authority of the contracting officer to promptly perceive with the contractor for the element of change

orders "

COL DOILION 61

Missile Chief

Californian Heads LAFD Equadron

A former United Air Lines pilot is Lincoln Air Force Base's new Missile Squadron Commander.

lie is Colonel Edward P.
Denton.
of Bakersfield, Calif., a
veteran Air
Force pilot,
with more
than 9,000 flying hours.
Before en-

tering the
Army Air
Corps in 1940,
he was a pi- Col. Denton
let for United Air Lines on
the Pacific run from San
Francisco to Hawaii.

Colonel Denton has commanded B-47 bomber and KC-97 tanker squadrons, prior to coming to LAFB.

His last assignment was at Offutt Air Force Base, 9 miles south of Omaha, as Deputy Commander for the 566th Strategic Missile Squadron.

The 551st Strategic Missile Squadron at LAFB will become operational Apr. 1, 1961.

On that date, the squadron will activate its administrative section, assume responsibility for supply accounting, and begin a pre-training program. This program will precede individual training to be given at another base.

Complete activation will not take place until the missiles arrive.

Colonel Denton has more than 15 years of active duty, and 15 a rated command pilot.

This family is due to arrit in Lincoln during June, 1924. - "JOURNAL"4 Mar 61

Mess Denied

AF Chief Cites Complexities

Washington (UPI) — Air Force Secretary Eugene Zuckert has denied that the billion dollar intercontinental missile launching pad program is in a

mess." Zuckert, in answer to a House appropriations subcommitsaid tce, that "difficulties have arisen because of the Zuckert complexity" of the construc-

cost would be only about 4½% more than the amount congress approved.

The House subcommittee.

had charged the program had been crippled by sloppy management and numerous order changes and modifications.

"Since the program was started," Zuckert said, "we have extended the Atlas ICBM program 72%, without additional appropriations. The survivability of the forces... has been increased 5-fold."

"We do not intend to subsidize inefficiency nor other management shortcomings, but we will cooperate to see that valid claims are promptly and fairly settled," he said.

The secretary said that target dates for completing the bases will be met for the most part, "there will be some slippage in the early sites, but the later ones should be on schedule."

Man Killed At "STAR" 7 MAR 61 Missile Site

Milo J. Olson, 40, of Sioux City, Iowa, was killed Monday in an accident at the Elmwood missile site.

Olson, a welder for Western Construction Corp., was working on the wall of the lowest level of a missile silo when a vise was knocked from a tri-

pod on the 3rd level.

Company officials said the vise fell 107 feet and struck Olson in the head.

An investigation into the accident was under way.

The family had been staying

at Crete.

sile Speckers ST. S. Kar 61 Te Visits 10

Communities

Three mart e southeastern Nebraska communities will be host this menth to the Atlas mirile speakers from Lincoln

Air Porce Base.
The speakers will be at meetings it Palmyra Wednesday, Wilber on the 15th and Tecumseh on the 22nd.

The 3-man team of speakers headed by Col. Thomas G. Corbin, commander, 818th Air Division, has addressed more than 2,200 persons in previous meetings in Avoca, Eagle, Elmwood, Cortland, York, Beatrice and Nebraska City.

Corbin said Col. month's tour is part of a plan which began last December to address public meetings in each of the communities situated near 12 new Atlas missile complexes under construction in southeast Nebras-

fense Secretary Robert S. der. Schriever's outlit will be McNamara Friday announced known as the "Air Force Sysorganization designed to carry forward a March 6 directions. Command." It will include a section of the army tive giving the Air Force responsible for nearly all responsibility for building a valle bases. military space programs.

than \$3 billion, consolidated all Air Force space, weapons, communications and warning systems under Lt. Charges of incompetence and warning systems under Lt. charges of incompetence and Gen Bernord A. Schriever, whate in admeetion with the chief of the sir research and missile base program. development command. Big

chairman Overton Brooks, D-La., of the House Space Committee accused McNamara and other Defense De's partment officials of "foot-dragging" in a committee inquiry in.o the order.

Difficulty tee investigation into the order, which had jolted the Army and Navy. He said the committee had run into difficulty in getting testimony from high defense officials. He threatened to subpoena them, if necessary.

His statement was directed specifically at McNamara, Air Force Secretary Eugene M. Zuckert and Dr. Herbert F. York, director of Defense Department research and engineering.

Brooks said the order had remifications for civilian as well as military space work. In his connection, Deputy Roswell. L. Gilpatric told the cy. He said it had enough problems of its own.

Under McNamara's follow-

Washington (UPI) 18 March 1951

Washington (UPI) — De-jup reorganization to the or-

Gen. Thomas D. White, air The shift, involving more force chief of staff, said the

The eighteers section will loser was the Air Materiel be under Brig. Gen. A. C. Welling of the englaners, but he will report through the Air Force command.

Management

Secretary Zucken, and Force Secretary Zucken, said the reorgan plan would "improve na agentation carry forwar, the Defense De-Brooks made the charge in week assisted virtually all officially opening the commit- responsibility for military space pregrams to the air force."

Under the reorganization, the Air Anterial Command, headed by Gen. Political E. Anderser with beauty arters at Diggs Olife will lose \$3.2 billion in new budget funds originally ser fuled for it. It also will have about 14,-000 of its 105,000 personnel.

A new independent "Office of Acrospace Research" was carved cut of Shriever's former command. The Air Force and this office would be engaged chiefly in basic rather than applied research.

Members of the House con mittee the military had Space Committee raised the question of reported Army ne intention of trying to take question of reported Army one; the civilian space agen- and Navy objections to Mc-Name 's order handing the Air Force all but complete responded by remilitary moc projects.

axiala

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBRASKA 3 April 1961

Lincoln Missile Squadron Operational—On Paper

The 551st Strategic Missile by Col. Edward P. Denton, said the squadron will not Squadron at Lincoln And Will eventually have about be considered completely op-Force Base became operation 1,000 men. al "on paper" over the wee

An administrative orde has been published officiall activating the Atlas missil squadron which will eventual ly operate the 12 missile site in the Lincoln complex.

Currently, the squadron consists of about 10 officers an 10 airmen, commande

The primary duty of the rive and are in place. lemen until the missiles

t up to prepare the mis-on for the Atlas missile near. ing to be conducted at pard AFB, Texas.

Air Base spokesman

erational until the missiles ar-

Airbase officials indicated is assuming administ that there are personnel on e, supply and accounting the base now working in other re-training program will capacities, similar to missile work, who will transfer to the

> It was reported that the completion date has not been



Col. Edward P. De on, new missile squadron commander.

LOCALIDIAS

Of Missile

Sites Hit

Placed Upwind

Of Large Cities

Washington (A) — An Arizona scientist says that placing ICBM launching sites upwind of at least 9 major cities means nearly certain death for an additional 3 or 4 million Americans if the United States is attacked.

The scientist, Dr. J. E. Mc-Donald of the University of Arizona's Institute of Atmospheric Physics, said the launching sites are certain to be "targets of the heaviest nuclear attack in the opening minutes of any sneak attack".

In a paper prepared for a joint meeting of the American Meteoroligical Society and the American Geophysical Union, McDonald said the situation presents horrendous civil defense hazards and makes "the issue one that must be given the most high level scrutiny at once."

McDonald said the following cities would unnecessarily be faced with potentially lethal fallout from enemy nuclear bombs in case of attack because of their location in respect to intercontinental ballistic missile launching

Omaha, Neb.; Los Angeles; Topeka, Kan.; Kansas City; Memphis, Tenn.; Spokane, Wash.; Tucson, Ariz.; Wichita, Kan., and Little Rock, Ark. (The Omaha area has 3 missile sites. The Lincoln area has 12 sites. All are for Atlas missiles.)

"Within the past 18 months," he said, "construction has been started on most of the launching sites for the Air Force Atias and Titan ICBM forces. In general, ICBM squadrons are being deployed near existing SAC (Strategic Air Command) bases for economy reasons. Unfortunately, the choice of SAC bases, and still more, the choice of individual launcher sites at these bases, appears to have been made with almost no consideration of civil defense hazards involved.

Lilas Horli Sigppeggs Are Teld

U.S. CHAMBER GIVES REPORT

Lincoln area Atlas missile base work had more work, stoppages than any of the other 20 intercontinental missile, bases in the nation, the U.S. Chamber of Commerce reported Monday.

The Chamber said in a statement released in Washington that organized labor averaged one work stoppage every two days during the 8 months ended last February at the 21 bases.

30 Stoppages

The Chamber breakdown showed Lincoln had 30 work stoppages and 1,298 man days lost. The Cocoa, Fla., base had the greatest number of man-days lost—8,057 in 24 stoppages.

The C h a m b e r statement said 153 work stoppages occurred at the 21 bases during the 8-month period, causing the loss of about 23,400 mandays of work. It was released as a House labor subcommittee prepared to begin hearings Tuesday on a bill to legalize secondary beycott work stoppages in the building trades.

Site Finished

Meanwhile, in Lincoln, the contractor for the Atlas installations reported the site at Tecumsen should be complete and turned over to Army Engineers for final inspection by May 1.

Sites at Brainard, Eagle and Wilber should follow in a period of about a week to 10 days.

Mason Travis, project manager for the Western Contracting Corp., which is building the sile-type missile wenpon system, said the 13 sites in the system are about 12% completed as to construction. This does not, however, caller intricate electronic installation.

Employment total now is about 1,000 after a peak of 2,661 about 3 months ago.

Engineers Will⁶ Let Contracts

Omaha—Contracts for 6 new obstotaling nearly half a million dollars will be let by the ps of Engineers Omaha castrict.

Included are two Lincoln

area projects.

Bids will be opened May 3 for safety platforms in 12 missic launching silos in the Lincoln Atlas complex. A May 11 bid opening date was set for a 3-bay maintenance shop at the Army Reserve Training Command at Lincoln.

was being completed at Offutt during this time.)

Travis disclosed that the 12 missile sites in the Lincoln system are about 92% completed constructionwise. This does not cover intricate electronic installation to be done by Convair under Air Force ballistic missile supervision.

"Ten of the launch control centers in the 12 silo sites have been accepted by the Army Engineers as complete, except with some minor deficiencies," T. avis said.

As Western's work phases out this summer, Convair's job will pick up tempo for the year or longer installation job needed to make the missiles operational.

Work Loss At Bases Is Cited

C of C Says I incoln Missile Basen Lag

By Bess Jenkins

The U.S. Chamber of Commerce's claim Monday of excessive man-day losses at Lincoln's 12 Atlas missile sites resulted in two local developments:

—Announcement that Tecumsch, one of 12 sites in the silo-type missile weapon system, should be complete and turned over to the Army Engineers for final inspection by May 1. Sites at Brainard, Eagle and Wilber should follow in subsequent week-to-10-day periods.

—Army Engineers and Western Contracting Co. officials generally agree with the U.S. Chamber's claim of 1,293man-lost days between July, 1960 and late February of this year.

The Army Engineers put the total at 1,300 and said another 293 man-days have been lost since Feb. 28.

Western Contracting's project manager, Mason Travis, said loss of 1,788 man-days from July, 1960, to March 22 are shown on their records.

Employment to tal now is about 1,000 after a pear of 2,000 about 3 months ago, he explained.

He praised mernational unions' cooperation in eliminating work-day ! o s s e s since their agreement in February with President Kennedy's 4 point program on missile construction.

The U.S. Chamber's figure on Lincoln was cited in Washington with other missile base construction as the national group strived to block union attempts to lossen Taft-Hartley restrictions on work stoppages.

Lincoln's missile project was rated 4th in number of missile bases with the most lost work-days by the chamber.

It was noted Offutt lost only 281 man-days in the same July, 1980-Feb., 1961 period. (All construction was completted and clost a rine Mation OMANA DISTRICT WORLD HERALD, CHAHA, NEERASKA 18 April 1961

Lincoln's Atlas Job Halis Worst'

Atles bases in the Lincoln a have had more work ppages than any of the er 20 intercontinental misbases in the ration, the lited States Chamber of commerce said Tuesday. The Chamber, in a state-off released in Washingsaid there was an averoff one work stoppage by two days during the tamouths ending in February for the 21 bases.

WORLD ALD CMAHA, NEBRASKA April 1961

> www.sch Missile carly Done m sile site at Tecumseh she is be complete and be to to Army Engi-nr for al inspection by Mr. it as reported here Mon y. Will a should follow in period of about a week to 10 da on " ws. projec, manager for the Western Contra g Co peration, which is but g the ene-type missile we it stem, said the 12 site the exem are about 92 cc completed as to contact a celectronic installant. Lang byn t total now is about one lousand after a peak of L thousand about three mont... ago.

1,743 Man-Days "tournat "26 Apr 6 Lost in Strikes

. . . at LAFB

Washington (2) — The Defense Dept. reports Lincoln Air Force Base has had 33 strikes since April 1960 and Offutt Air Force Base 36 since March 1959.

The Lincoln strikes resulted in 1,743 man-days lost and the Offart strikes a loss of 6,643 man-days.

The figures were part of a summary placed in evidence in the Senate investigations subcommittee's hearings on work stoppages at missile bases.

The two Nebraska bases are operational sites of Atlas missile complexes.

LOST DURING 33

STRIKES AT LAFB

Washington (27) — The Defense Department Tuesday eported Lincoln Air Force ase has had 33 strikes since pril 1960 and Offutt Air orce Base 36 since March, 1959.

The Lincoln strikes resulted in 1,743 man days lost and the Offutt strikes a loss of 6,643 man-days.

The figures were part of a summary placed in evidence. Tuesday in the Senate investigations subcommittee's hearings on work stoppages at missile bases.

The two Nebraska bases are the operational sites of Atlas missile complexes.

Action Against Missile Site Strikes Asked

Washington (P-Arty, Gen. Robert Kennedy has been asked by Sen. Carl Curtis, R-Neb., to take "appropriate action" in labor situations at missile sites which may involve restraint of trade and fraud against the government.

Curtis said his views, expressed in a let or to Kennedy, were basic on testimony before the Senate investigating subcommittee 1 e s t week dealing with strikes and work stoppages at missile sites.

Curtis told a reporter he wrote Kennedy that witnesses had said that 87,000 man days had been lost in work stoppages at Cape Canaveral.

Curtis said the civil rights division of the Justice Department should have its attention called to Florida's right-to-work taw. Men are being denied the right to work at Cape Canaveral, he said, unless they belong to unions or join unions.

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBRASKA 27 April 1961

Some Atlas Workers Earned \$400 Weekly

Big Pay Checks Not Uncommon At Lincoln Area Missile Sites

By Ron Gibson

Weekly pay checks of \$400 were not uncommon for skilled workers employed at Lincoln-area Atlas ICBM sites in 1930 and early 1961, a contractor spokesman said Thurs-

Mason Travis, project manager of Western Contracting Corp. which is the prime building contractor for 12 Atlas sites in the Lincoln complex, said high wage checks were paid when Western was on an accelerated schedule in 1960 and the first month the wage specified by a union of 1961.

These factors added up to fat checks for some Lincoln area workers:

Healthy wage rates under union scale contracts; for example, \$3.55 an hour for carpenters in the Omaha local. Some of the Lincoln area sites were covered under Omaha raics.

Overtime, some of which is paid at rates of time-and-ahalf, and some of which is double time. Travis said some covered by the Omaha rate

of construction required in rate is \$3.15. Some sites are missil base building. This covered by these locals. means basically, keeping on schoole regardless of strikes, oither the Lincoln or Omaha weather delays or design tates of an agreement with changes. Stoppages of this Laborers Local 1140 of Linsort result in more overtime coln and Omaha. to keep the job on schedule.

icks Up Tob

Western Contracting has to pick up the tab for any extra expense, Travis said.

Some missile-complex are paid for by the federal government on a cost-plus-fee basis, which means the federal government pays any higher wage costs.

Western contracted to build the sites for a fixed fee, however, and the government cost or two 8-hour shifts each day, depending on the stage of construction.

Higher of Two

Travis said Western's wage rates are based on the higher of two rates-either the U.S. Dept. of Labor minimum or agreement.

A Western spokesman said that in all cases where both

More on Page 2

rates apply, the union rate is highest.

Wage rates vary at the 12 sites because different locals are involved.

Up to \$3.70

skilled workers put in 60-hour get \$3.55 an hour now. The weel with everything over rate goes to \$3.70 on May 31. 40 hours paid at a higher rate. The Lincoln rate is \$3.40, and The "concurrency concept" the Grand Island or Beatrice

Laborers are covered under

Wage rates are \$2.30 an hour for Lincoln and \$2.621/2 an hour for Omaha, but negotiations are under way for a new contract which would call for a retroactive increase, a Western spokesman said.

remains the same regardless of any increased costs encountered by the contractor.

Phasing Out Western's share of the miss e-building job is past the half-way mark now and the contractor is phasing out. Emplayment is down to about .200, Travis said, from a peak of 2,000.

The co. or has cut from 7-day work week to 6 days. Some sites have cut from a 24-hour day (3 shifts) to one

Lincoln Construction Strike Hinges On Tuesday Meeting

bers hinges on a Taesday wage hike and another inmeeting of the Building other increase of 171/2c next Trades Council, it was report- year, Miller said. ed Monday.

Negotiations between representatives of 9 trades unions and the Associated General Contractors representatives were broken off Monday with the two sides "as ar apart as ever" according to the con-tractors' spokesme.

Union representatives were

unavailable for comment.

Leonard Schaefer, business manager for Laborers Local 1140, had said earlier that if Monday parleys were not successful, a strike would be called Tuesday, tying up the major portion of Locoln area construction.

The 9 unions have been working withou contracts since March II. separate agreement was signed with Western Cont action Corp., building the Allas is sile sites, and will see al smaller contracto n members of the AGC.

President he incoln AGC, John said that Monday's se on h the union representative recessed in mid-after on ler union officials made a unter-proposal to the de ods for a hiring hall wich a management official tel d "quite unreasonable

Union represes asked

A strike by Lincoln area la-borers and trades union mem-an immediate 20c nourly

Melvin C. Goings, president of the Lincoln Building and Construction Trades Council, verified that the council would discuss the subject at a Tuesday meeting, but de-clined to discuss the possibility of a trike.

A representative of the Federal Mediation and Conciliation Service attended the Monday bargaining sessions.

McCLELLAN CLAIMS-

Striking At Missile

Washington (UPI) - Sen. profited from them. John L. McClellan, D-Ark., Thursday denounced labor work stoppages at U.S. missile bases as "gouging," too passive and ineffective."

Two other subcommittee

Senate investigations subcom- lan in criticizing the work mittee which investigated the stoppages. Both expressed situation, cailed on Congress doubt that administrative acto pass a law outlawing delibcrate work stoppages on vital government contracts. Unless it acts, he said, the lawmak- that some of the wildcat ers may be a party to the nation's destruction.

in a statement winding up his committee's inquiry and then cling bill. He aggested that elaborated in a Senate speech. Goldberg, if I is sincere in He blamed unions, manage-ment and military overseers delays, withdow the adminfor the "intolerable" situation.

Not Necessary

been halted, he said, if top work stoppag must go to labor leaders had placed local the "silence a inaction" of unions in trusteeships and disciplined union business agents missile sites. who did not persuade their men to stay on the job.

nen to stay on the job.

Fo also crificized some tool Kennedy adn stration unrental companies, who, ac-dertakes action the situacording to testimony, charged tion. Labor So ctary Arthur rentals as high as 500% of the J. Goldberg w begin a se-

The Arkansas Democrat prepare recommidations for said some unions and workers President Ken . McClellan "may well be responsible to said he would cooperate in a substantial degree for what- such efforts. ever gap or lagging behind exists in our space and mis-sile programs."

Deliberate

He cited disclosures of "wildcat strikes, work stoppages, slowdowns, featherbedding and a deliberate policy of low productivity" which have been made during the two weeks of hearings.

McClellan added that there has been evidence that some missile base subcontractors "tolerated, acquiesced in and encouraged" slowdowns and

Two other subcommittee mail." He called them a "sor-did kind of extortion."

members, Sens. Karl E.

Mundt, R-S.D., and Carl T. McClellan, chairman of the Curtis, R-Neb., joined McCleltions can end the abuses.

Commo Situs

Curtis said to timony shows strikes at Cane Canaveral were strikes of a type which McClellan made the charges would be legal and under the so-called come n situs pickdelays, withday the administration's support for the common situs bil.

Like McCleling, Curtis said Work stoppages could have some of the lime for the government chials on the

McClellan s he was susoriginal cost of the equipment, ries of meeting Monday to

Probe Of Missile Industry Labor Asked By Martin

Washington (P) - Rep. David Martin, (R-Neb), Wednesday called for the House to investigate costly labor trouble in the missile industry. He said Congressmen ought to consider remedial legislation if necessary.

The Senate Investigations subcommittee suspended hearings on the problem pending a promised move from the administration aimed at assuring labor peace at the bases.

\$56,000 Contract Given For Atlas Safety Platforms

Omaha — A \$56,939 contract for construction and installation of safety platforms at each of the 12 Lincoln Atlas missile sites has been awarded to Denver Steel & Iron Works of Denver, Colo.

The announcement of the contract letting to the division of Idaho-Maryland Industries, Inc., came from Omaha District Engineer Col. H. G. Woodbury, Jr.

Denver Steel submitted the lowest of 9 bids received by Army Engineers for the job. The government's estimate was \$97,050. Provided for are the manufacture and delivery of 12 hydraulically operated, steel platorms by the end of November.

Bids will be opened by Army Engineers June 14 for construction of a fuel catchment tank system for the Atlas sites.

The project is estimated to be in the \$200,000 range, Woodbury said. It must be completed by next November.

The project includes a 15,000 gallon underground steel fuel tank with 90 feet of stainless pipe, two valves and wiring.



MISSILE

Five mayors of Lincoln area towns with nearby Atlas sites examine a mount of the intercontinental ballistic missile eld by 93th Bombardment Wing's act mander, Col. William C. Garla From left to right are Mayors Pat Boyl coln, O. N. Miller of York, Phill Nestor of Tecumseh, Woodrow Dyerak ard, Garland, Fred Marquardt Avoca

and Lincoln Air Force Base commander Col. William H. Working. The mayors attended a Wednesday luncheon at LAFB's officers club as part of Armed Forces Week celebrations and witnessed military ceremonies for A/1c Robert L. Palmer. He received a Freedom Foundation award for his contest-winning letter, "My Vote: Freedom's Privilege." (Star Photo)

"STAR" 22 May 61

Atlas Not Completely Reliable, Says Zuckert

reliability of its Atlas 10 M missiles. at this time. But, he said ful nation in the world.

Questioned in a TV in or- completely reliable. view, Zuckert decline to state how many Atlas missiles this country had on launching pads. He said this was a . ilitary secret.

Russia had more ICBM's He said: the United States.

"That is not the vole story," he said. "Ther is much more to the story.

Washington (UPI) - A ir | the United States would rely Force Secretary Eugene on manned bombers as a bul-Zuckert said Sunday Russia wark of its defense "for a has "significantly more" in good many years to come." tercontinental ballistic mis- He said this country must siles than the United State

He also said the United rather than "going to exStates could not count on the trome" of sole reliance on

In discussing the reliability America's combination of of the Atlas, Zuckert said that ers make it the most power- specific any new weapon, the 5,000 - mile missile was not

> But he said it would become more trustworthy as time went by.

Zuckert was asked whether Russia had the power now to He also declined to use the wipe out the United States term "missile gap" in sa ing with a sneak nuclear attack.

"If you don't get a warning and if you don't have the de-terrent, then you are in a posi-15 tion where your potential en-In this connection, he add emy could wipe you out."

May 61 Scores ong Trip

Cape The Air Atlas m day nig cad str new, m rocket.

Officia missile : in stre of Asce on.

averal, Fla. UPorce launched an le 5,000 miles Friracking up a secht success for a powerful model of ntinental range

reported the big formed as planned ag to a bullseye near the outh Atiantic island

activas Stic, 15 Stories L'oun Awesome to Legislative

By Dean Terrill Southeast Nebraska Bureau

Nebraska City - "She'd hold a lot more hay if they hadn't dumped so much junk in first."

That remark is a bit naive to be expressed by any state senator, but visiting a concrete Atlas silo will at least trigger the thought, sure as shcotin'.

A legislative delegation toured the massive underground structure here

Wednesday.

A preview of the \$1.5 million Atlas missile launching site, one of 12 in southeast Nebraska fingering 175 feet into the earth, suggested the inwmakers may be even more dazzied by its complex-

ity than its size.

Dug beyond the depth of a 15-story building, the buried installation is a vertical jungle of stainless steel piping, wrist-thick electrical cables and giant oval tanks. Its 60foot diameter is so crammed with mysterious mechanisms, huge and yet intricate, that they will wholly envelop the intercontinental missile itself in its 20-foot shaft.

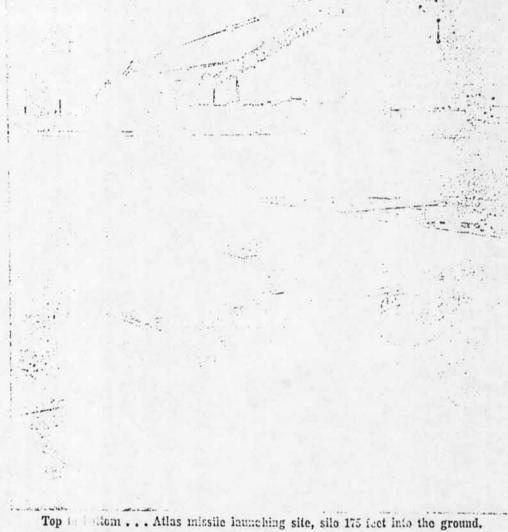
Pipe-Fitter's Dream

"This is the pipe-fitter's dream you've always heard jeked Ken F. Lauritsen of Omaha, site engineer for the U.S. Corps of Engineers. "It's stacked into 8 servicing levels, each one a little more of a maze than the others."

The missile bases are being constructed by Western Contracting Corp. with from its unique for ex- eration, but actually a second designed to swing open when

copper lines to 10-inch rocket - loading connections — is part of the vest propellant system for fueling the missile. Nine main tends to 10-inch rocktons of bo and weided completed its only access will be through an underground compared with the other 11 system for fueling the missile. Nine main tends to 10-inch rocktons of bo and weided completed its only access will be through an underground compared with the other 11 system for fueling the missile. Nine main tends and weided completed its only access will be through an underground compared with the other 11 system for fueling the missile. Nine main tends and weided completed its only access will be through an underground compared with the other 11 state. sile. Nine main tanks and an "Every p assortment of smaller ones the site is p contain such fuel components against stat as helium, nitrogen and liq- might come vid exygen.

An oversize air conditioning | Fontaine of strem adds to the compli- cal foreman. cried ductwork, feeding directly into electrical control shock of a ble connection will be connected by Convair. This unit is proposed by Convair. This unit is proposed



footsteps,"

To protect

103 to 203 workers at each ample, the find job site most of the tubelar rate chored to the work — varying from the large term of the tubelar rate chored to the work — varying from the large term of the condition of the large term of the large ter

the silo by a 40-foot tunnel, nearest completion. of metal on A two-story cavern, the cen- Testing is to begin soon on ded, to guard ter's upper level, will house the Nebraska City pressureectricity that the half-dozen or so personnel loading system, which is n from a few on duty.

faired Frank The control center also is sonnel elevator also is finecoin, electri- suspended, and will contain ished, but cannot be used unthe multiplicity of electrical til the electrical system is opings from the panels to be installed later countive.

in ough the entire pit to precent lights — the everything cent lights — the everything cent lights — the construction of personnot, Lauritson said.

3 Guil Springs

ven to enormity of the construction of springs.

"Usually we think of the Atlas as being a constant of the pit, but will be spart going to the pit, but will be spart going to the pit.

completely installed. A per-

OMAHA DISTRICT THE LINCOLN STAR, LINCOLN, NEBRASKA 25 May 1961

The Lincoln Star 3 Thursday, May 25, 1981

Complex Alies Silo Dazzios Logisiciors

By Dean Torrill Southeast Nebrasha Bureau Nebraska City - A legisla-

tive delegation touring the concrete Atlas sile near here more by the complexity of the underground structure than by its size.

The lawmakers were given a preview of the \$1.5 million Atlas missile lau hing site, one of 12 in somheast Nebraska fingering 1 5 feet into the earth.

Dug beyond the depth of a 15-story building, the buried installation is a votical jungle of stainless steel piping, wrist-thick electrical cables and giant oval tanks. Its 60foot diameter is so crammed with mysterious mechanisms, huge and yet intricate, that they will wholly envelop the intercontinental issile itself in its 20-foot sha

'Pipe-Fitter's Dream

"This is the pipe-fitter's dream you've always heard of," joked Ken . Lauritsen of Omaha, site agineer for

constructed by Western Con- half-dozen or so personnel on tracting Corp. with from 100 duty.

to 200 workers at each job site most of the time.

Most of the tubular network - varying from tiny copper Wednesday appeared dazzled lines to 10-inch rocket-loading connections - is part of the vast propellant system for fueling the missile. Nine main tanks and an assortment of smaller ones contain such fuel components as helium, nitrogen and liquid oxygen.

> An oversize air conditioning system adds to the compli-

Nebraska News

cated ductwork, feeding directly into electrical control cabinets to cool and dry the myriads of transistors. Air also will be circulated through the entire pit to prevent asphyxiation of personnel, Lauritsen said.

Once the installation is completed its only access will be the U.S. Corps of Engineers. through an underground con-"It's stacked into 8 servicing trol center connected to the levels, each one a little more silo by a 40-foot tunnel. A of a maze than the others." two-story cavern, the center's a maze than the others." two-story cavern, the center's The missile bases are being upper level, will house the

27 liey 61

Film No-Strike And No-Lockout Pladges

Washington 45-The government came up Friday with a labor peace plan for missile and space bases and officials sold they are sure it will work. .

The plan involves a firm no-strike picoge from labor CIO President George Meany, unions and a no-lockout pledge Walter Reuther, head of the from manufacturers and con- AFL-CIO industrial union detractors — along with a new partment, and C. J. Haggerty, 11-man "Missile Sites Labor president of the AFL-CIO Commission" designated to settle all disputes.

President Kennedy extary of Labor Arthur J. Goldberg, who arranged the new fast and economical complelion dollar space projects.

New Importance

The arrangement is all the more important since Kennedy has just asked Congress to chart an accelerated program for sending a man to the moon.

Goldberg agreed at a news conference there is nothing in the law, nor in an executive order issued by the President establishing the new commission, to compel disputants to abide by the new group's decisions.

The labor secretary said, "this nation placed a man in space before the eyes of the world. Now we have shown that free labor and management can respond to the responsibility of observing the national interest without the compulsion of law."

Sin:kin Co-Chairman Coldberg will head the missilcs-space labor peace commission, with William E. Simkin, director of the Federal Mediation and Conciliation Service, serving as co-chairman.

Three top representatives each from the public, labor unions and management round out the commission. The public is represented by labor experts David L. Cole, David H. Slowe and John T. Dun-

The union men are AFL-

president of the AFL-CIO building and construction trades department.

Reperesenting management pressed confidence to Secre- are Edgar F. Kaiser, president of Kaiser Industries, Inc., Douglas Dorman, vice peace plan, that it will enable president of Martin Aircraft, and James D. Marshall, exection of the nation's multibil- utive director of the Associatcd General Contractors of

America.

"HERALD"

Wasta Also Raised Missia Base Cost'

Represe Unive Dave Martin said Threday his four-day investigation of missic base construction in this a: a disclosed glaring inefficiency and ! waste.

"Extra costs from labor malpractices and some subcontractors neither properly equipped or knowledgeable of their jobs have forced the Government to spend millions of extra dollars," he said.

He said there have been 20 strikes at the Mead base with 6,362 days lost at a cost of \$237,500.

At Lincoln Air Force Base 1,808 man-days were lost, he said. Cost figures were not availab!

At Warren Alr Force Base near Cheyenne, Wyo., strikes cost 23,073 man days and 580 thousand dollars, he said.

'Went Broke'

The Kearney, Neb., Congressman said one Mead subcontractor operated a steakhouse before obtaining a twomillion-dollar contract.

"I believe he went broke," Mr. Martin added.

He said the Malan-Grove Construction Company, which i received about 13 million dollars worth of missile work, had its obligations assumed by a bonding company. He: noted Allian-Grove now has a ! claim of \$4,500,000 against the Government.

Mr. Martin said electrical workers at Mead and Lincoln on the 8 a. m. to 1:30 p. m. shift received regular time while those working between 4:30 p. m. and 8 a. m. got time-and a-half. He said this will be changed.

Leasa-Rent Hit He said that between April, 1960, and March, 1961, at, Mead 48 extra workers were hired to watch automatic gas boilers and air-conditioners. He said this practice has, ceased.

Mr. Martin criticized provisions for the lease-rental of i equipment to the Covernment at missile sites. He said the cost is too high and that better bookkeeping is needed.

The Congressman said he will recommend amending the; Davis-Bacon Act to prevent furisdictional disputes on ween craft and industrial unions which result in waste at missile sites.

Mr. Martin noted that work stoppages are fewer now than during the periods criticized and that efficiency has increased.

in traffets

AGREEMENT REACHED IN LENGTHY SESSION

Dr Tom Perry

the Associated General Con- posals for any change in the tractors a "package proposal" Monday night.

The AGC negotiating committee considered the package for several hours, but the bargaining session broke up early Tuesday with no agreement reached, according to AGC Secretary Dean Kratz.

AGC President John Miller issued a brief statement after the session broke up early Tuesday which left the issue of a union hiring hall still in doubt.

Millier said:

"We made another offer which included an immediate wage increase of 1712 cents and some condition changes. They rejected this offer and are still insisting on the hir-ing hell clause."

Earlier in the session, Schaeier appeared to have dropped his proposals con-cerning the hiring hall. They came up again in the later negotiations.

Leonard Schaefer of Omaha. business manager for the union, proposed to settle the construction strike which has paralyzed building in Lincoln since May 2 for the following:

-a 15c raise as soon as his men go back to work;

-a 121/2c raise on April 1. · 1962, and a 21/2c raise August 1, 1962:

-a 712c health-and-welfare

program:

-a 12'5c raise for work done in counties contiguous to Lancaster County, and a rate of 32.00 per hour for those counties outside that

of any hiring hall issues, Laborers' Local 1140 offered Schaefer then dropped his prowording covering the hiring hall.

> Schaefer said early Tuesday that the AGC had also agreed to a 71/2 cents health and welfare clause, effective April 1, 1982.

-an agreement that prime contractors must enforce the union pay scales and working conditions to which they are committed with any subcontractors they employ;

-a list of the contractors for which the AGC is the bargaining agent.

Hiring Hall

Missing from these demands is any mention of a hiring hall, an issue that has been prominent in previous negotiations. The issue is confused because a union hiring hall already exists and is used by most Lincoln contractors, the chief exception, according to Schaefer, being Cook Construction Co.

Contractors are not now restricted to hiring through the union. Schaefer wanted to strike from the agreement which expired March 31 a sentence which explicitly states that contractors in the AGC do not have to use the hiring hall.

The contractors rejected this proposal, and Schaefer suggested submitting the coestion to arbitration. When the AGC rejected arbitration

AT 3. 3

Tecume's

Atlas Site

Floor Major

Work Is Complete

By Dean Ferril. Southeast Nebraka Burea

Tecumseh — Free Ame & little closer to a cocking Nebraska's bit a simed toward Moscow

Actually the "guns" — unde ou. Atlas complexes which house giant nuclear many house turned over to the force by the U.S. Complexes a brief of the pressure of

year he Tech of facility will enter the handled by General Dy ics Astronauties (former and because of the handled by General Dy ics Astronauties (former and because of the handled by General Dy ics Astronauties (former and because of the handled by General Dy ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by ics Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former and because of the handled by its Astronauties (former a

Big K.

An oversit mbolifor the milestrate control by Co.

John Minister by Co.

John Minister be Corp.

A. On Travis | lect manage of Western ntracting Companies to the remain of sites to the remain of construction he this probably will be a month.

"The Air Force over 100 major chasites after worl: Travis noted, recaptured most lost and are may vised schedule."

n the ed" have time

Asks

Liss & Deser

Wishin of the Rep. Dave Martin, in Nebi, citing a series of incidents at Nebraska and Wyoming missile bases, Thursday called on Congress to ban all strikes, work stoppages and slowdowns at defence installations.

Martin, a member of the House Labor Committee, told the House his conclusions were reached after a personal inquiry in these two states which first was approved and then rejected by Chairman Adom Clayton Powell, (D-77).

Martin said Powell authorized him on May 25 to conduct such an inquiry at Offatt and Lincoln Air Force bases in Noraska and Warren AFB in Wyoming. He said Pow I wired him the next day withdrawing the authority in view of President Kennedy's action in setting up an 11-man commission to resolve disputes at missile sites.

Despite this action, Martin said, he continued the investigation at his own expense and found a number of malpractices in the construction of these 3 missile bases.

"JOURNAL". 12. Jun 61 SI Williom LAFB Ailas Area Done

By Marvin Hatcher

Another missile countdown has been made at Lincoln Air Fasce Base with the completion of a St-million Alica missile maintenance area.

The area consists of a specially-designed maintenance building and an addition to the base supply building.

Lt. Col. Frederick Marsh chief of missile maintenance, said the building will house the specialist maintenance shops, maintenance control room, and administration offices.

Marsh, said the socially degreed 165 foot by 225½ foot building will normally hold one Atlas during maintenance checkout, however two will be worked on at the same time when the missiles first arrive in the Lincoln area.

The first Alias inter-continental ballistic missile is scheduled to arrive in the early fall, according to the colonel.

The maintenance building is the second major missile building to be erected at the airbase.

A liquid oxyger LOX) plant was finished in February, costing about \$1 million.

The LAFE plant manufactures about 28.2 tons (about 5,000 gallons) of LON dafly for the 12 missile bases which circle Lincoln.

It also produces dievid nitrogen, used for freezing and drying, and breathing caygen for the air base high rlying aircrews.

OMAHA DISTRICT WORLD HERALD, OMAHA, NEBRASKA 10 June 1961

First Stage of Missile Complex Is Completed

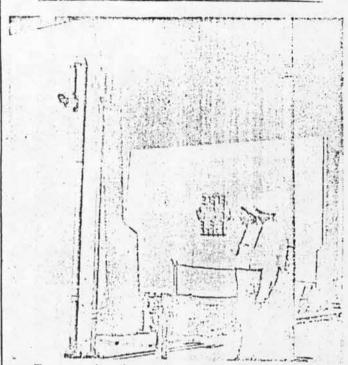
An informal ceremony Friday morning four miles north of Tecumseh, Neb., celebrated the first stage of the construction of one of the 12 silos of the Lincoln Air Force Base Atlas missile complex. The basic construction work on the 180-foot-deep nest of steel and concrete which will house an intercontinental missile has been completed. The silo extends eight

stories beneath the earth. Each of the eight stories contains tanks and piping of the missile propellant system. Taking part in the ceremony were Col. Edward P. Denton, commander of the 551st Strategic Missile Squadron; Mason Travis, project engineer for the Western Contracting Company; Col. John A. Minahan, Lincoln

area engineer for the Corps of Engineers; Lieut. Col. Joe Disant. commander of Lincoln APB; Col. Vernon L. Hastings, commander of the Lincoln Site Activation Task Force; B. T. Boon, launch complex supervisor for General Dynamics, and Capt. C. C. Perkins, chief of Site Complex Group B.

At ceremony . . . (From left) Denton, Travis, Minahan, Disana, Hastings, Boon and Perkins.

OMAHA DISTRICT LINCOLN STAR, LINCOLN, NEBRASKA 10 June 1961



Two massive doors shown in upright position soon will shelter a nuclear-warhead Atlas missile in its underground silo near Tecumseh. Dwarfed by the 142 tons of concrete and steel are Tecumseh Mayor Philip Nestor and Ambrose Claus, safety technician for General Dynamics Astronautics. (Star Staff Photo)

Tecumseh Missile Complex Turned Over To Air Force

By Dean Terrill Southeast Nebraska Bureau Tecumseh-The end of the first major phase of construction on the underground Atlas complex was marked here Friday.

In a brief ceremony attendde by 3 helicopter loads of top brass, the first of 12 such complexes housing giant nuclear missiles was turned over to the Air Force by the U.S. Corps of Engineers.

Construction started on the Tecumseh facility in May, but the facility will not enter the installation and checkout phase handled by General Dynamics Astronautics (formerly Convair).

The original schedule called for completion of construction by Aug. 1, but this probably will be missed by a month.

"The Air Force ordered over 11 major changes in the sites after work started," Travis said, "but we have recaptured most of the time lost and are meeting the revised schedule."

Among those attending the ceremonies were Lt. Col. Joe V. Disana, acting LAFB comfor General Dynamics Astrothe Air Force Ballistic Sys-1 tems Division.

As a symbol of the milestone reached, an oversized key was presented Coi. V. L. Hastings, SATAF commander, by Col. John Minahan of the Corps of Engineers.

The remaining 11 sites of the 12-missile complex will be transferred at intervals of approximately one a week, according to Mason Travis, project manager for Western Construction Corp.

Contract To Molon Firm Under Attack

By The Associated Press A Nebraska congressman declared Friday a firm which did a "lousy job" building vi-

tal missile bases in Nebraska has been awarded a \$14 million Veterans Administration contract in Cleveland.

This charge came from Rep. Glenn Cunningham, R-Neb.

Cunningham said the Malan Construction Company of New York City was primarily responsible for delays in construction of Atlas missile. bases near Omaha in 1959 and; 1960, yet the Veterans Administration gave this firm a \$14.-740,000 contract May 26 to build an 800-bed hospital in Cleveland.

The Nebraskan said the Corps of Engineers rejected the original Malai company bid for construction of the Nebraska missile bases because "the firm lacked an adequate capability." After another New York Construction commander; Col. Edward P. Den- pany was brought in as a ton, commander 551st Strate- partner on the project, and gic Missile Squadron; Earl B. after a reported meeting at Newton, operations manager the Pentagon between Conamics Astronautics (formerConvair).

It will be supervised by the of Tecumseh; and Cliff Bo
iningham said, the military of-Lincoln Site Activation Task line, president of the Tecum-Force (SATAF), a branch of seh Chamber of Commerce. ficials awarded the contract to Malan, the low bidder.

Story .c ow.

First stage of Tecumseh Atlas site completed . . . Cant doors, right, cover cight-story deep missile nest. Entrance to con--World-Herald Photo. trol and perminel centers marked by arrow.

com-

SATAF.

ly takes

pted a

gincers.

more for

an part

Tecuri-

di atos ... Fage 20.

Ton: Allas

World-Herald S : i Member

Tecumseh, Non-Completion of the first age of conthe 12 silos struction of one of the Lincoln And Force Base Atlas in ssile complex was celebrated at an incormal cerement Friday morning at a site four miles north of

It marked the finish of the basic construction work on the 180-jost (eight stories beneath the roth nest of sice! . I mane. ..

It had taken a year to get this far. it will be another 12 to 14 months before the 80foot mi sile is in the Ast. .

OMAHA! TECU" SEH.

The aramony marked the seh's Mayor Phil formal carrole at of work by Chamber of Comm racting Com- dent Cliff Boline. the Witter is panel, France Chy, Ia., and the | There was no co

supervising Corp neers.

Final Phase

General Dynam nautics, under the of the Lincoln Site Task Force, has all the final phase.

Col. V. L. Hast mander of the Line said this phase us 12 to 14 months.

Col. Hastings symbolic key to the ceremony from Co Minahan, Corps of the Lincoln area of the ballistic missiltion office: Also were Col. Edwar commander of the tegic Missile Squ son Travis, Wester ing's project engine

of Engi-| the delays which have plagued | placed in the hole 180 feet other Atlas projects.

In fact, Mr. Travis said his, company would finish and Maze Astro- turn over 11 of the 12 sites! ervision in the Lincoln project "about men. alre dy installed on y begun l

be finished about a month be- ters. Included are 20 separate hind the original scheduled tems, including diesel generation set for August acing equipment, and electridespite "over a hundred cal systems capable of supchanges" in design and en-plying the needs of a small te in the gincering since construction town. John A. began.

struc- DCI.

The other siles, he said, loading system. Denton, will be completed in "inters. Stra- vals of approximately a week on: Ma- or at a rate of four or five ontract- a mouth."

plaint of lof structural siee! were als.

deep and 52 feet in diameter.

The visitors Friday were the eight floors and in adjoin-He said his company will ing personne, and control cen-

In addition there are heating and air-conditioning sysand har, tanks and pipor the natistic propellanting

And still to be added are the operation: I systems.

When completed, the say will contain 75 hundred mo-Since construction began chanical, 11 hundred hydraulic stor and here eight thousand cubic and 1,375 pheumatic parts as e Presi- yards of concrete, 946 tons of well as 650 miles of vive and reinforcing bars and 430 tons 27 diousand electrical ferminSup. Star & Journal Bale St In It is Lis Jupe 1961 MICGIR L'AM

Industrial Fatalities 1931 1933
Nebrasha 17 4
Lancaster County 2 0
Lincola 1 0
Wilber—A worker at the
Atlas missile site near here
was killed Friday when a
safety cap on a high pressure
air pipe blew off and
knocked him 35 feet to the
bottom of the pit.
He w Stiles Berry, 53, of
Little ack, Ark.
Office said Berry was
worked an a catwalk 35 feet
from w bottom of the Atlas
pit 7 m is west of here when
the said y cap, holding back
4,000 ands of pressure,
blew off
Death resulted from the
cap strong his body and not

from the fall, officials said.

The today has been shipped to Arbersas for burial, the Zajicele funeral Home here reported.

A brief ceremony took place Last Friday at the Tecumsch Athas Aussue Complex marking a milestone in the vast Lincoln AFB Atlas Site construction

Various Air Force and civilian construction officials were at the Tecumseh Missile Complex ceremony to mark the formal turnover of the silo from Colonel John A. Minahan, Lincoln Area Engineer, Corps of Engineers, Ballistic Missile Construction Office (CEEMCO), to Colonel V. 1.. Hastings, Commander of the Lincoln Site Activation Task Force (SATAF), a branch of the Air Force Ballistic Systems Division.

General Dynamics Astronautics, under the supervision of

the Lincoln SATAF will now begin the Installation and Checkout phase (120) of construction. Upon the completion of the I & C phase, the completed complex with its ready missile will be turned over to Colonel Edward P. Denton, Commander of the 551st Strategic Missile Squadron, of the 818th Air Division, SAC, Lincoln Air Force Base, Commanded by Colonel Thomas G. Corbin

Among those attending the ceremonies were: Colonel John A. Minahan, Lincoln Area Engineer (CEBMCO); Colonel Vernon L. Hastings, SATAF Commander: Lt. Col. Joe V. Disana, Lincoln Air Force Base Commander: Colonel Edward P. Denton, Commander 551st Strategic Missile Squadran, Mr. Fart B. Newton, Operations Manager for General Dynamics/Astronautics; The Honorable Philip Nester, Mayor of Tecumseh; and Mr. Cliff Boline, President of the Tecumseh Chamber of Commerce.

Here at the Tecumsel compact since May 15th of last your, Western Contracting Cornoration of Sioux City, lown, under contract with the Corps of Tagineers, Ballistic Missile Construction Office, has exenuated 71,000 cubic yards of carth: placed 8,000 cubic yards of concrete, 946 tons of reinforcing our and 430 tons of structural stee. to form a sito 174 feet deep and 52 feet in diameter.

Into this facility was installed 20 separate utility and operations systems, including diesel generaling equipment and electrical systems capable of supplying the needs of a small town, heating and air conditioning equipment. and tanks and piping for the missile propellent loading system.

At the completion of the I & C phase and furnover to the Air Force for operational use, the giant Atlas ICBM silo will contain 7,500 mechanical, 1,100 hydraulic and 1,375 pneumatic parts as well as 650 miles of wire and 27,000 electrical terminals.

Between now and Autumn the remainder of the Atlas silos will be turned over to the SATAF for

the I & C phase.

Heavy construction has ended at the Brainard site . . . concrete doors cover the sile.

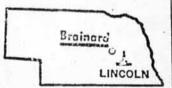
Brainard Atlas Silo Finished, Presented to Operational Force

silo was accepted Monday by over to Colonel Edward P. diameter. Col. Vernon L. Hastings, site Denton. Commander of the activation task force com - ron, of the 818th Air Division systems, including diesel gen nel John A. Minahan, commander of the Lincoln area corps of engineers.

The second sile completed by Western Contracting Corp. and Corp. of Engineers this mently is near Brainard. The first site completed and ac- mand, commanded by Coloncepted by Col. Hastings was el Thomas G. Corbin, Lincoln marked by a key turn-over Air Force Base. ceremony near Tecumsch on During the past 11 months June 9.

nautics, under the super-excavated some 12,000 stand-well as 650 miles of wire and vision of the Wainoo SATAF and dumptruck loads of earth, 27,000 electrical terminals. pleted Atlas complex we its structual steel to form a silo tings.

man or (SATAF) from Colo- of the Strategic Air Com-



at this sile, Western Contract-General Dynamics Astro-ing Corporation men have will now begin the installation poured about 1,333 ready-

Erginard - Another Atlas | ready missile will be turned | 174 feet deep and 52 feet in

In this silo was installed 20 separate utility and operations erating equipment and electrical systems capable of supply the needs of a small town, heating and air conditioning equipment, and tanks and piping for the Atlas missile propellent loading system.

At the completion of the checkout phase and turnover to the Air Force for operational use, the giant Atlas ICBM silo will contain 7.500 mechanical, 1,100 hydraulic and 1,375 pnermatic parts as

Between now and autumn and checkout phase of con-struction. Upon the comple-tion of this phase, the com-inforcing bar, and 423 tons of be turned over to Col. Has-

NEAVY CONSTRUCTION WORK FINISHED

Heavy construction has been completed and the installation and checkout phase begun at the Atlas missile site near Brainard. Upon completion of this phase, the missile complex

will be under the command of Col. Edward P. Denton at Lincoln Air Force Base.

nring dan Ar' 7 Cone 1961 nitacions

Loui! Work

"Inshing on CE—Rep. Glenn's Conningham, R-Neb., saggested Morday that all prime confractors having field er all confracts be required to do at east 55% of the actual construction work with their own forces.

Cunninghem, told the House he was in the process of drafting a bill to carry out this suggestion and added:

"I believe this simple requirement will provide the necessary supervision on construction projects in the future which obviously has been lacking in many projects in the past.

"I believe it is the minimum which is necessary in order to discourage — even eliminate — bid brokers from furner government work."

of certain jovernment departments which handle a large amount of construction work to back up his contention that bid brokers or bid jobbers are a problem.

He then referred to the Maian Construction Co. of New York which was awarded a \$12.870,000 contract for work on missile sites near Offer. Air Force Base as "a bit broker or bid jobber."

he said the firm joined with any ser New York construction frm — Grove, Shepherd, William and Kruge — to form a combine known as Malan-Grove for work in Nebraska.

The firm, he said, has compiled a poor record in the Nebraska area which has resulted in filing of a number of law suits against Malan.

has brokers in general make every possible attempt to submit the low bid on projects and, if then awarded the contract, begin to shop around for subcontractors, Cunalngham said.

OMAKA DISTRICT SUNDAY JOURNAL & STAR, LINCOLN, NEBRASKA 2 July 1961

Lilas Electronics Work Lieans 2,600 New Joke Payroll Will Be \$1.7 Million Louthly

By Bess Jenkins

Lincoln is the hub of the tem. southeastern Nebraska area just weeks away from an ecoly \$1,750.000 income.

ics must employ to install the meeting at the Cornhusker. electronica components for

Childress to Speak

nomic windfall-a new month- \$21 million annual income will General Dynamics equipped be reviewed for the Chamber the Offutt missile sites. He is This represents the payroll of Commerce's Lincoln Area remaining at the Mead head-of some 2,360 workers which industrial Development Com-General Dynamics-Astronaut- mittee at a July 10 luncheon ment on the Lincoln complex.

Speaker will be Frederick J.

ministrator of General Dynamics-Astronautics.

Childress held this post as

The 2,600 employes will represent a peak employment in late September of General Dvnamics and its subcontrac-

The payroll will go up as Western Contracting Corp.'s employe total declines. Western, constructing the underground missile sites, is turning these over to the Army Eugineers Corps as they are completed.

General Dynamics and its sub-contractors then begin

their work.

Almost Completed

- Mason Travis, Western project manager, Atlas sites at Tecumseh, Brainard and Ea-gle have been completed. The Wilber site is scheduled for completion July 7, Nebraska City, July 14 and the others at one week intervals. They include Avoca, Beatrice, Cortland, Elmwood, Palmyra, Seward and York.

"We expect to be through by the end of August," Travis said.

He said Watern already has spent in excess of \$10 million on worker salaries. It will take at least another \$3 million in paychecks to complete the job. Western's peak employment was about 2,000.

the Lincoln Atlas missile sys- | Childress, communication ad-

The economic impact of this

केंगामाच्या विस्तानिक हो। वार्ष केंगाने

LINCOLN 1, NEBRASKA, JULY 2, 1961

Entertainment

SECTION B

TV-Radio

It is understood electre. secrialist: will be recruited cowhere by General Dynamies for the job and ad. This was true for the Onant electronics work, since none are availaole in Nebraska.

Many of the non-technical as will be filled by Nebras-... Some of these already applied to General Dy-

n: .. cs.

Housing Question

apleyes will work at all of the 12 sites, plus headquarters G. the mis ale squadron at Line coln Air Force Base and the field office supply headquarters at Mead.

It is expected many will live in nearby towns but others may commute from Lincel .

The question of housing is one to come up at the July 10 Chamber of Commerce meet-

piex, star.ed in May, 1960, is scheduled for a fall, 1962, occupancy by the Strategic Air Command.

OMAHA DISTRICT LINCOLN JOURNAL, LINCOLN, NEBRASKA 10 July 1961

Missiles Bringing \$20 Million Payroll Installation Takes 18 Months. Affects 16 Counties Economically

It will cost from \$20 to \$21 million in payroll dollars to make the Lincoln Atlas Intercontinental Ballistic Missile system in southern Nebraska operational.

This payroll will affect all or parts of 16 southeastern myra, Seward, Tecumseh, Nebraska counties, according to Fred J. Childress, comadministrator for General Dynamics Astro- would cover all employment munications nautics Co. of San Diego.

"It covers a 1.800 square mile are," he said.

Col. Vernon L. Hastings of date for completion. the SATAF Command at Wa-300 and 400 residents of Lincoln will be employed in Atlas towns near missile sites.

tered are Avoca, Beatrice, sile sites. Brainard, Cortland, Eagle, Peal Elmwood, Nebraska City, Pal

Wilber and York.

Childress said the estimated \$20-\$21 million total payroll needed for the missile electronics work from last winter through summer, 1962-target

If a severe winter should hoo estimates, based on expe-delay the electronics instalrience of earlier Atlas in the lation schedule, Childress said Omaha area, that between the total wage output could climb beyond \$20-\$21 million.

In his outline of the ecocivilian work. The balance of nomic impact of this program around 600 will be from Oma- Childress said it will be reha. Wahoo, Fremont. and flected over most or part of 16 different counties, includ-The missile sites around ing Lincoln-Lancaster. The which the work will be cen- system has 12 dispersed mis-

Peak Employment He said a peak of 2,600 cm-

ployes for General Dynamics and associated-sub contractors will be reached this winter for just a few months.

Monthly payroll for this period will be about \$1,750.000.

General Dynamics will have a mean average of 500 cmployes during the entire 18-month period. The total mean average for all contractors on the job will be 1,000 during those 18 months, Childress reported.

He explained Mead-Wahoo, the Air Force Site Activation Task Force Command (SATAF) headed by Col. Vernon Hastings, will be the hub of the work program. About 400 to 500 civilian employes will be working there: until the Lincoln missile system is turned over to the Strategic Air Command.

He estimated Lincoln Air Force Base, headquarters for the new missile squadron, will have a steady employment of about 125 civilians until the complex is checked out for aurnover.

Housing for about 40', of the employes will be no problem. Childress said. They will be local workers already established in homes.

Associate contractors with General Dynamics are General Electric, responsible for the nosecone, and International Telephone and Telegraph-Kellogg Division, electrical communications.

Subcontractors Major subcontractors include Rocketayne Division, North American Aviation of Los Angeles, responsible for the missile engines: Ferguson-Smith of Salt Lake City, mechanical work, and RCA and Bose ..- Arma of Farmingdale, Long Island, electronical work.

CMAHA DISTRICT LINCOLN STAR, LINCOLN, NEBRASKA 12 July 1961

Atles System Brings \$26 Million Payroll

Atlas Intercontinental Ballis- estimated. tic Missile system will affect all or parts of 16 counties in will amount to about \$1,750,southeastern Nebraska.

Frederick J. Childress, communications administrator for the SATAF Command at Wa-General Dynamics Astronau- hoo estimated that between tics Co. of San Diego, Calif., 300 and 400 Lincolnites will pointed out that the payroll Omaha and Wahoo. will affect an 1,800 square mile area.

Childress said the estiemployment needed for the be the center of the work promissile electronics work from gram. last winter through the summer of 1962.

for General Dynamics and

A payroll of between \$20 associated sub-contractors will and \$25 million brought in by be reached this winter for the installation of the Lincoln just a few months, Childress

> He said monthly payrolls 000.

Col. Vernon L. Hastings of in speaking before a luncheon be employed in Atlas civilian of the Lincoln Area Indus-trial Development group, come largely from Fremont,

Childress said that the Air Force Activation Task Force Command at Mead-Wahoo. mated payroll will cover all headed by Col. Hastings, will

Some 400 to 500 civilian employes will be working there A peak of 2,600 employes until the Lincoln missile system is taken over by the Strategic Air Command, he said.

He estimated that the Lincoln Air Force Base, headquarters for the new missile squadron, will maintain an employment of some 125 civilians until the complex is completely ready for SAC. He pointed out that housing

would be no problem since some 40% of them will be

local workers.

la Sita Labor Picture

Cincing Cincing (Street 17 July 1951

President Kennedy got a re- work stoppages". port Sunday that work steppages from labor disputes at tional unions have been "exthe nation's missile sites tremely cooperative." dropped sharply in June compared with last year.

sion set up by Kennedy May peka Air Force Ease, Kan., 20, said man days of work and Vandenburg Air Force lost in June equaled only a Et. Base, Calif. tle over one per cent of the time lost a year earlier.

sion has obtained no-strike dictional dispute" between the and no-lockout pledges from International Brotherhood of both labor and management.

"I think this record is concrete testimony of the desire of labor and management to cooperate in making sure that work on our missiles and space programs goes for and uninterrupted," Goldbarg wrote the President.

He said during 1960 a rotal 6. 55,000 man days of work were lost because of suches at missile and space lites. That's an average of over 7,000 man days a month. In June, 1960, 26,217 man days were lost in work stopped s. He explained the high dane total was due chiefly in the fact that June is control tenegotiation month. ..

Last month, when con racis again were renegotiated maly 312 man days of worl re lost, Goldberg said.

Goldberg reported the labor relations compatibles have been set up at the 21 missile sites under commission jurisdiction.

He said the commences have dealt with a large withber of labor problem in-cluding those of work dis-diction and assignment, grievances, non-union amployes, and alie ed anco-i nomic work practices.

The secretary said mittees "have been on and-

Hyunnis Port, Mass. 41- ingly successful in preventing

He reported that interna-

Goldberg told Kennedy his commission has been making J. Goldberg, chairmen of the continuing studies on "un-Missile Sites Labor Commercial holding hearings now at To-

He also said that the commission expects to give a deci-Goldberg said the commis- sion soon on a "difficult juris-Electrical Workers and the International Union of Operating Engineers involving cable laying at missile sites.

rea Defense Control Genter Nears Completion in Sioux

Shoux City, Ia.-A \$35 milion, 5-story, windowless stone building is near completion at Sioux City Air Base.

The building will house the nerve center for one of the Midwest's Air Defense Sectors. Semi-automatic Ground Environment (SAGE), a system that can dispatch a guid-26 massile or manned fighters. owards an encoming enemy.

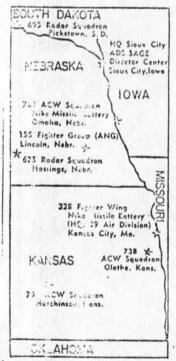
The Sioux City Air Defense Sector Direction Center is the ast of 21 SAGE Sectors to be constructed, all under the North American Air Defense Command (NORAD) at Colorado Springs, Colo.

Each Has Area

Each Sector is responsible for protecting a certain geographic area by air surveillance, calculating the course and speed of enemy planes in seconds and dispatching guided missiles or manned interceptors.

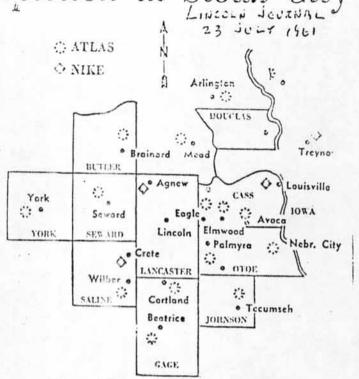
The present Sioux City sector includes major portions of Iowa, Nebraska, Kansas and Missouri and lesser parts of Oklahoma and South Dako-

When the Sector goes operational late this year, it will control all air defense wea-



Sixux City Air Defense Sector.

pon systems in the Sector puter at Sloan City. area, including Army Air De-



Atlas and Nike sites in Lincoln-Omaha area.

bomber and aerodynamic mis-; ing units on the base for the sile, the SAGE system of air incoming personnel. defense for the continental. The only major construction United States will be comiss the large, 3-story, monoplete when the Sioux City; lithic stone building. Sector becomes operational.

Giant Computers

start digesting thousands of bits of Air defense informathe 29th Air Division comtion provided each second by mand are located at Mino: the radar "eyes" of the Sec- AFB, and Grand Forks, N.D.,

Eight Air Defense divisions in the United States and Greenland make up the system in North America.

Units under the new Sioux City SAGE system will include active Air Force fighter ing information.

Guard's mission under the coln, Nebr.; Wichita, Salina of the base.

Air Force Air Defense Com- and Topeka, Kan.; Kansas mand (ADC will change City, Mo., and Sioux City.

The spokes nearly 1,600 from standby status to an ac- Atlas intercontinental bal-

.. Computers Connected

puters will be connected cles SAGE. tronically to the 'ant com-

A continued staff of Army Omaha complex. fense Command Nike-Hercu- and hir Force officers will Designed to provide a highles ground-to- ir méssile bat- feed necessary c. la into the ly technical de lace against teries computer 'or la und fire the threat of the manned

The Sioux City Air Defense Sector is a unit of the 20th Then the giant IBM com- Air Division (SAGE) at Rich-puters at the Sioux City ards-Gebaur Air Force Base, SAGE Direction Center will near Kansas City, Mo.

and Great Falls, Mont.

Nike-Hercules sites in the trels. Lincoln-Onjaha area are at The air base spokesman Nebr., and Treynor, Ia.

Primary Targets

Frimary targets to be deaircraft, Air National Guard, fended against a possible fighters, Army Nice missiles, manned bomber attack in the and radar stations for relay- Sector's 120,600 square miles include major installations A Sion City Air Base spok-esman said the Ar National Omaha, Hastings and Lin-

tive NORAD unit if an attack listic missile complexes are cluding 235 civilians. also located within the Seclop's area of responsibility, The Nike-Hercules site com- but are not controlled by

> There are 12 Atlas sites in the Lincoln area and 3 in the

Crete, Agnew and Louisville, said existing facilities and the strategic location were the major factors for the base being selected for the SAGE Direction Center.

> In April, 1960, a fighter group was deactivated, leaving facilities and equipment at the base.

A small "housekeeping unit" remained to take care

The spokesman said that nearly 1,600 personnel will be in the new organization, in-

There are about 300 Capehart and sub-standard hous-

Action Set On Missile

Sing Cofe SUN.JOURNAL & STAR" 23-Julyn 1961 15 111

Check Contracts

Washington (UPI) — A federal watchdog commission said Saturday it will crack down on wasteful practices or overtime pay abuses by unions at the nation's missile bases.

The 11-man Missile Sites Labor Commission announced in a policy statement that it was going to check contracts covering bases construction work to try and end "unreasonable" provisions.

Labor Secretary Arthur J. Goldberg, head of the commission, decided to tackle the unprecedented task of policing labor-management agreements after reporting early success in halting strikes at the missile-space installations.

The action is designed to halt or modify some of the labor-management practices disclosed by the Senate Investigations Committee headed by John L. McClellan. (D-Ark).

Testimony indicated that some craftsmen received up to \$500 a week because of contract clauses that awarded them as much as 4 times their normal pay.

The commission said that since many construction contracts are now being negotiated it wanted to set downguidelines for the employes and government agencies involved.

"Wage rates, fringe benefirs and other conditions of employment should not be negotiated which establish more costly standards on missile and space site construction than are made applicable to other construction activity in similar circumstances," Goldberg said.

OMAHA DISTRICT LINCOLN STAR, LINCOLN, NEBRASKA 26 July 1961

Missile Accident Is Fetal

One Dies, Diver Saves Others

York 12- One man died in the nitrogen-filled shaft of an Atlas Missile site near York Tuesday and two fellow workmen (both having Lincoln addresses) were overcome as they went to his aid, but a 4th workman donned skin-diving equipment and saved them.

H. L. Rochelle, site superintendent for Western Contracting Co., said the accident occurred when a gasket failed on a high pressure line being tested, filling the shaft with nitrogen.

He identified the victim as Harold B. Odle, 26, Wichita, Kan., an employe of the Paul Hardeman Co., a sub-contractor on the project.

Robert Hartsoe, about 31, of Chase City, Va., and 2141 So. 36th, Lincoln, and Warren Miller, 28, of South Hill, Va., and 2910 Starr, Lincoln, fell about 47 feet when they were overcome as they went to Odle's aid.

Miller was listed in critical condition at the York Hospital late Tuesday and Hartsoe, also hospitalized there, was listed as fair. A hospital official said the extent of their injuries had not been determined.

Down Relow

Mr. Odle, working as the foreman, was in a lower part of the silo known as the "fill and vent," according to W. F. Travis, project manager for Western in Lincoln.

Travis said pressurization tests were being conducted on high pressure nitrogen gas lines, a part of the propellant loading system.

While the gas is not poisonous, it is under pressure and a leak in the line may limit the supply of oxygen in the immediate area, Travis said.

Rochelle said when nitrogen filled the bottom of the 67-foot shaft, causing Odle to be overcome, Hartsoe took an emercegncy air tank and started down after him, but was soon overcome and fell to the bottom of the shaft.

Miller then tried to go down but he, too, was overcome and fell.

Then Jerry May, 27, of Central City, a hobby skin diver, donned air tanks, went down into the shaft and passed lines around the 3 men so they could be raised to the surface. He was uninjured.

Rochelle said that had it not been for May's act, Hartsoe and Miller might have died.

-'DIVER' RESCUES MEN—. "STAR" 26 July 61 SSILO SILO (1501)

workmen (both having Lin- the bottom of the shaft. coln addresses) were over- Miller then tried to go down come as they went to his aid, but he, too, was overcome but a 4th workman donned and fell. skin-diving equipment and saved them.

intendent for Western (o net into the shaft and passed lines tracting Ca., said the seci-laround the 3 men so they dent occurred when a gasket could be raised to the surface. fixed on a high pressure line. He was uninjured. being tested, filling the shaft. Rochelle said that had it with mitrogen,

Harold B. Od'e. 26. Wichth, diec. Kan., an employe of the "and, Hardeman Co., a sub-cor ractor on the project.

Robert Hartsoe, about 1, of Chase City, Va., and 111 So. ! 36th, Lincoln, and Warren Miller, 28, of South I Va., and 2010 Starr, Linda. fell about 47 feet when were overcome as the t to Odle's aid.

Miller was listed in critical condition at the York Hostelal late Tuesday and Harlane, als) hospitalized there, was listed as fair. A hospital official said the extent of heir. injuries had not been dice-

Down Relow

Mr. Odle, working a the foreman, was in a lower mit of the silo known as the and vent," according to " F. Travis, project manager for Western in Lincoln.

Travis said pressuria on tests were being conducted on high sure nitrogen s lines art of the pi ilan. system. gas is not

so: . it is under pres e an a leak in the line y line, the supply of oxygen in the immediate area, Tills

Rochelle said when gen filled the bottom of the 67-foot shaft, causing October

York (A- One man died be overcome, Hartsoe took an in the nitrogen-filled shall of emeregency air tank and an Atlas Missile site near started down after him, but York Tuesday and two fellow was soon overcome and fell to

Then Jerry May, 27, of Central City, a hobby skin diver, H. L. Rochelle, site super- donned air tanks, went down

not been for May's act, Hart-He identified the victim as see and Miller might have

Cas Kills One At Atlas Site

Industrial Fatalities 1961 1960 Nebraska 20 Lancaster County .. 1 Lincoln 1

York-A hobby, coupled with courage, is credited with saving the lives of two missile workers following an accident that took one life.

Killed was Harold B. Odle. 26, of Wichita, Kan., an employe of the Paul Hardeman Co. Overcome by gas and saved by Jerry May, 27, of Central City were Robert Hartsec. 31, and Warren Miller, 28, both natives of Virginia who reside in Lincoln while working on a missile site near York.

May, whose hobby of skin diving keyed the rescue, was not init red.

Witnesses gave this account of the ... cident:

A gasket blew out on a high pressure line filling a shaft with nl.roger, at the Atlas missile silo.

Oale was in the lower part of the 67-foot shaft and overcome by fumes. Hartsoe took an emergency air tank and started down to assist Odle. He was overcome and fell to the bottom of the shaft. Miller followed, but he, too, .was overcome and fell.

Then May, using skin diving techniques, donned air tanks, entered the shaft and passed lines around the 3 men. They were raised from the shaft by a crane.

H. L. Rochelle, site superintendent for Western 'Contracting Co., said that had it not been for May's action, Hartsee and Miller might have died in the shaft.

Odle died shortly after be-

ing brought out.

Miller remains in critical condition at a York hospital. Hartsoe is in good condition. Miller's Lincoln residence

is 2910 Starr; Hartsoe's is 2141 So. 36th.

WIRELTHOTO

Labor Secretary Arthur Goldberg performs intoducms for Gen. Thomas S. Power as the SAC chief welcomes oldberg and his inspection party to headquarters at omaha. Standing rigidly at attention at left is a member of the SAC Elite Guard. (See story, Page 11)

Silo Workers

Gai No-Sirike Warning

Labor Arthur J. Goldberg said the sense of urgency that the Monday if the voluntary no- president has given me." strike, no-lockout pledged at Ries replied that "we will missile and space bases fails do everything in our power to "the president will have no see that there is not one hour hesitancy in going to Congress lost, let alone . . . one day." if necessary.

"This is a test we are making," he said. "We expect evervone involved to do his job and keep this no-strike pledge voluntarily."

"There is no reason or justification for any worker walking off the job," he said, since the formation the missile sites labor commission, providing machinery for resolving problems which may arise in missile base construction.

Goldberg and members of the commission arrived in Omaha for a short tour of Strategic Air Command headquarters. From Omaha they left for Vandenberg Air Force Base in California.

Meets Committee

Goldberg met briefly with the Lincoln and Oifutt missile site labor relations committee, headed by E. H. Ries, Omaha, representative of the space sites. U.S. mediation and labor conciliation service in this area.

is a right we want to preserve," but he said the "world situation is such that we cannot tolerate the normal degree of differences that we have in construction and programming and administration."

"One of the things that is agement disputes committee. worse than a strike is the loss of freedom," he said.

He reminded the committee that President Kennedy did not go to Congress for restrictive legislation, but went to unions and management asking them "voluntarily to pledge that there would be no strikes and no lockouts and uninterrupted production in the missile and space program.

"We are hopeful that you (the local committees) can

Omaha @ - Secretary of bring to them (the workers)

Power Stern Goldberg and his party ran into some stern words Monday at SAC headquarters.

Gen. Thomas S. Power, SAC commander, told the visitors some of the past missile base labor stoppages "didn't make too much sense."

Gen. Power estimated that missile delays were due to 70% technical shortcomings and 30% labor stoppages. But he said pointedly that the labor troubles could have been avoided.

Gen. Power, at a briefing made it clear, however, that SAC is confident it is ready to counter e.fectively any enemy attack.

Earlier Monday at Cape Canaveral Goldberg reported vast improvement in preserving labor-management peace at the nation's missile and

Goldberg promised a month-ly report to President Ken-Goldberg told this commit-tee that "the right to strike the recent no-strike, ro lockout pledge governing missilespace base labor relations, is working out.

"In a very real sense, our problem is much graver than it was in World War II," the labor secretary told a meeting with the local labor-manOTOP TO TO

GOLDBERG AT SAC-Labor Secretary Arthur Goldberg performs introductions for Gen. Thomas Pe et as the SAC chief welcomed Goldberg and his inspection party to Offutt Air Force Base.

Missile Workers Given

No-Strike Warning

Omaha (2-Secretary of Labor Arthur J. Goldberg said Monday if the voluntary no-strike, no-lockout pledged at missile and space bases fails "the President will have no hesitancy in going to Congress if necessary.

"This is a test we are making." he said. "We expect ev- do everything in our power to eryone involved to do his job see that there is not one hour and keep this no-strike pledge lost, let alone . . . one day." voluntarily."

"There is no reason or justilication for any worker walking off the job," he said, since the formation the missile sites labor commission, providing machinery for resolving problems which may arise in missile base construction.

Goldberg and members of the commission arrived in Omaha for a short tour of Strategic Air Command headquarters. From Omaha they leit for Vandenberg Air Force Base in California.

Meets Committee

Goldberg met briefly with the Lincoln and Offutt missile site labor relations committee, headed by E. H. Ries, Omaha, representative of the U.S. mediation and labor conciliation service in this area.

Goldberg told this committee that "the right to strike is a right we want to preserve," but he said the "world situation is such that we cannot tolerate the normal degree of differences that we have in construction and programming and administration."

"One of the things that is worse than a strike is the loss of freedom," he said.

He reminded the committee that President Kennedy did not go to Congress for restrictive legislation, but went to unions and management asking them "voluntarily to pledge that there would be no strikes and no lockouts and uninterrupted production in the missile and space program.

"We are hopeful that you (the local committees) can bring to them (the workers) the sense of urgency that the president has given me."

Ries replied that "we will

Power Stern

Goldberg and his party ran | into some stern words Mon-

day at SAC headquarters. Gen. Thomas S. Power, SAC commander, told the visitors some of the past missile base labor stoppages "didn't make too much sense."

Gen. Power estimated that missile delays were due to 70% technical shortcomings and 30% labor stoppages. But he said pointedly that the labor troubles could have been avoided.

Gen. Power, at a briefing made it clear, however, that SAC is confident it is ready to counter effectively any enemy attack.

Earlier Monday at Cape Canaveral Goldberg reported vast improvement in preserving labor-management peace at the nation's missile and space sites.

Goldberg promised a monthly report to President Kennedy and the nation on how the recent no-strike, no-lockout pledge governing missilespace base labor relations, is working out.

"In a very real sense, our problem is much graver than it was in World War II," the labor secretary told a meeting with the local labor-management disputes committee.

Duys Kerr Title

Fidelity Title Insurance Co. President William E. Grubbs of Lincoln announced Thursday that his firm has bought the 54-year-old Kerr Title Guarantee and Abstract Co. of Omaha.

Purchase of Kerr's capital stock was completed Thursday for an undisclosed sum.

Grubbs, former state insurance director who formed Fidelity Title in January, said the Omaha branch office of the Lincoln firm would be moved from its present location in the Keeline Building to the Omaha National Bank Building.

Building.

Mrs. Margaret A. Dwyer, who has managed the Kerr, firm for the past 25 years, will continue to manage the abstract department in the Omaha branch, and Jack Leonard will manage the title insurance department at Omaha, Grubbs said.

A former Nebraskan, Leonard has been associated with one of the nation's largest title insurance companies at Sacramento, Calif.

" Lincoln Firm Low On Title Confract 6/

Fidelity Title Insurance Co. of Lincoln was the apparent low bidder Thursday for a federal contract to obtain title evidence and issue title insurance policies on 75 parcels of real property in connection with missile sites.

The Corps of Engineers is handling the contract for the missile sites which will be located in 8 Nebraska counties: Cass, 'Gage, Otoc, Butler, Johnson, Lancaster, Saline and York.

Strike Total Lowest Since World War II

Washington on — Secretary was lost because of strikes a postwar low. For the 6of Labor Arthur J. Goldberg during the period. month period the total was
reported to President Ken- His report showed 6,720,000 609,600, compared with 740,000 nedy Thursday the first 6 man-days lost due to strike in the same period of 1960,

Goldberg reported that only one-tenth of 1% of working time of all non-farm workers

months of the year saw "the idleness during the January. and 2,310,000 in 1952.

Greatest period of industrial June period this year, compeace since the end of World with 10,900,000 in 1960, and 32,700,000 in 1952.

Caldberg recented that said

volved in strikes was also at strikes in 1958.

the lowest such postwar fig-The number of workers in- ure except for the 1,589 -

Hit New Low

Washington (UPI) - Labor Secretary Arthur J. Goldberg reported Wednesday after a two-day tour of key missile bases that man-days lost to strikes at the launching sites fell to an all-time low of 209 in July.

Goldberg praised contractors and workers for their record of uninterrupted performance. "Work is being performed with great expedition and great dedication," he told a news conference.

More than 1 million mandays of work were recorded last month.

Goldberg made his trip as chairman of the Missile Sites. Labor Commission. This group was set up to end delay and wasteful practices after disclosure of abuses by a senate investigations subcommittee headed by Sen. John L. McClellan, D-Ark.

The labor secretary said many problems remain to be solved. He said the complex missile program raises many jurisdictional problems be-tween unions. Housing is in short supply for workers, and some workers are demanding travel pay because they have to drive up to 90 miles to reach some isolated bases, he said.

Corps Of Engineers STAR" 8 Aug 61 Buys Property Rights

The Army Corps of Engineers will acquire some rights to 75 parcels of land in 9 Nebraska counties, according to L. Y. Lawton of the real estate division of the Corps.

The properties are adjacent to missile sites and will be posted and patrolled for safety sake, Lawton said.

Mov Aslas Pesses First Flight Tost

... MODEL 'F VALL FILL LINCOLN AREA SILOS

"STAR" 9 (197 61)
Cape Canaveral, Canaveral, Other site facilities are being tion helium storage spheres

Fla. 65-A new model Atlas considered near Salina, to permit a shortened countmissile, designed for storage | 1 m. Altus, Okla.; Abilene, down. 4. minor electrical alin hardened underground si- Texas Hoswell, N. Mex.; and los successfully passed its first flight test Tuesday, The air force reported that

Twelve of the underground launching silos are being constructed in the Lincoln area. 1 .00

blockbuster rocket wn the Atlantic range niles per hour. The nose me impacted as lantic land of Ascension.

Ifferences aimed at foring a fueled rocket for

ster

rajor

Slins.

Geral Dynamic-Astronomic which makes the mistile, id the changes include: 1. addition of special fuel lives to permit long term worage. 2. a draining device to remove impurities which cumulate at the botom o' he fuel tank. 3. addifion concertank pressurizaterations.

The "E" rockets will be striking a target 5,000 miles and 1 objectives were met away. protected holes which are being built to survive all but a direct hit by a nuclear bomb.

> The silos are 174 feet deep planned near the south At- and are capped with steel and concrete doors which This was the first flight open rapidly at the time of launch. The "F" Atlas elevates to the surface before oncurrently with the firing. A kerosenc-base fuel remains in the rocket at all times. Liquid oxygen is iods in the protected pumped in when a decision to launch is made.

NOSONE INCARIONNÉ

Sho Hides The Adlas

Ty Laty Person
Impressive — bewildering
— complex — awesome —
frightening—a whale of a
holo.

That's a U.S. Air Force Atlas Missile Site.

A layman marvels at the stupendous undertaking of just plain building a missile site, and is over-whelmed in Betty trying to imagine the mil-

lions of details which had to be worked only before the first spadeful of earth could be turned.

The massive does which will close over the hole when the might Atlas is in place are monitoring skill in themselves.

Each (there are two) weighs 70 tons—that's equal to piling up alout 35 average size cars to each slab of concrete which is nearly 3 feet thick. We the doors themselves, and the mechanisms governed them, are scaled to allionths of an inch—balar of so deli-

cately that not a hitch can occur if they are pressed into service.

You begin your descent through a concrete stair-

EDITOR'S NOTE: Lincoln Star reporter Belty Person went into the deeps of an Atlas missile silo near Palmyra. Here are her impressions.

way off to the side—a normal enough approach, nothing frightening about that. At the end of the stairway

At the end of the stairway you walk through a seemingly ordinary door, but you're informed this is the "trap," and that as the site becomes more classified, a television camera placed there will assure those hiside that each entrant is on "our team" in every sense of the word.

You are now in the Launch Control Center.

At the first level is the "housekeeping area" where the men who will man the missile will have their kitchen, medical supplies and sanitary facilities.

It's Safe?

You wonder if maybe you shouldn't volunteer for duty. It's quite a bomb

sheller. Not lavish in any respect — it's spare — but utilitarian, and safe in the ground.

You're informed that this circular room, part of a little silo in isself, is so constructed that the floor is suspended from 4 hydraulic air jacks to make it flexible.

You descend by stairway again to the second level—and it this circular room, a twin of its mate above, lie the "brains" of the whole operation.

Panels of lights, each labeled to describe every operational phase of this complex engineer wonder, dazzle your eye Vou don't understand it, tat you're impressed.

Main Forthire
You're read por to see the main attractor.

You pick you are across the floors of imagrating (and they certainly did not design them was women's high heels maind) and there you are an iron grating walky bordering a seemingly borderings at the seemingly bordering and the seemingly bordering and seemingly bordering and seemingly bordering as the seemingly as the

A narrow by of steel lies between you and noth-ingness.

You fix you to on the wall directly on the, study

the pipes, the tubing, the valves, the switches, the gigantic springs — everything and anything to keep from looking down into that dim abyss.

You reach for a rivet — one small protusion from that sheet of metal so gratefully at your back — and tell the butterflies (which feel like eagles) to be quiet.

Good Workout

If one is at all inclined toward acrophobia, your senses get a thorough workout standing on that iron grating at the top level aware of the shadowy dark-

ness below.

Not until you have the ineral and physical support of a couple of good, strong, male arms do you even venture to peer over the railing into the blackness below.

In a fleeting glimpse you see monstrous gray concrete walls slashed with brilliant orange networks of steel that diminish into darkness at the bottom of that enormous pit.

Steel Bench
You give up the iron
grating flooring and find a

(Continued on Pg. 6)

THE LINCOLN STAR

0

aatta etto tuspasõiom

Localy Opens The Ayes

(Continued from Pg. 1) .

solid piece of steel off to the side upon which you can rest while the hardier members of the party descend into the hole by a narrow, open, spiral staircase.

You watch the workmen, familiarity breeding unconcern for their situation, as they sprint up and down the stairway.

You smile, half apologetically for the sissy attitude you display, and they rejoin with another smile, saying, "We don't blame you — it's all in getting used to it."

think you want to.

Then they bring up the lelevator — so constructed that if a door at any one of the 8 levels is open even a fraction of an inch it won't operate — and you begin your descent.

Huge Tanks

You stop off at the various levels on your way down to view the wonders each holds. The huge storage tanks hold thousands of gallons of fuel which will propel the giant missile on its fantastic flight.

You remember you were warned to stay away from the nitrogen tests being conducted above ground—those vapors register 320 degrees below zero. That's too celd no matter what Nebraska's current temperature might be.

reinforced concrete — eight thousand cubic yards of cement enough to pave 2½ miles of high grade high-way, goes into that Atlas missile silo which reaches nearly 160 feet in depth and some 80 feet in diameter. And the area around the top is covered by a 9-foot cap of reinforced concrete. That's pretty impressive too.

At The Bottom; And there you are — at the bottom of the hole. Crash helmet firmly in place, you are permitted to step into the center for just a moment (there's too much danger from falling objects, and even a small bolt picks up lots of weight

in such a descent). It's a long, long way to the top. And it's so black at the bottom.

Ascending straight to the top, you once again screw up your courage enough to take one more quick glance at where you were a moment before.

You think again of the men who have created this wonder — the Air Force scientists who devised it, the U.S. Corps of Engineers and workmen who built it, the Convair men who are fitting it out with its complex electrical units, the U.S. Air Force men who will operate it.

You think of their minds, patience, skill, daring, endurance and back-breaking labor — and you're grateful beyond words — and thankful they're on our team.

As you leave the missile site you notice a marker — just a few hundred feet down the road — which denotes that just over a hundred years ago the pioneers of another era passed this way in their covered wagons — down the Oregon Trail.

THE LINCOLN STAR 10 AUG 1961

(2)

"STAR" 11 Aug 61

la Two Fafal

Missile Mishaps

Omaha IR-Damage suits totaling \$648,750 growing out of two fatal Atlas missile constituction site accidents have been filed in Federal District

One suit asks \$598,750 for the next of kin of Milo J. Olson, 40, Sioux City, Ia. He waskilled March 6 at the missilesile near Elmwood.

Olson, an ironworker forman for Western Contracting Co., was struck on the head by a falling pipe vise.

by a falling pipe vise.

The suit was brought by the administrator of Olson's extate on behalf of the widow, a son and a daughter.

A \$50,000 suit was brought by the parents of Delbert T. I an, 25. St. Peter, Minn., killed Nov. 6 when he fell 150 for down the shaft of an Atlas launching site near Cortland. He was an ironworker employed by Salyer Re-Bar I section, Inc., Lincoln.

12 Area Wissile Sites Completion

By Marvin Hatcher It takes a heap of manpower and material to make

a missile go . . . Twelve Atlas Intercontinental Ballistic Missile com-

plexes circling Lin coin in an irregular fashion will soon have m i s s iles poised for launching.

A casual obser v e r might find

the con - Col. Hastings struction phase simple in appearance, but a closer look will reveal precision operations, some measured at thousandths of an inch.

Construction and activation phases have put 31 different companies and about 4,500 military and civilian personnel to work at various times.

Intricate

The "ballistic sentries" of the nuclear age, are gigantic in size but minute in intricate mechanisms.

To attain this high degree of professionalism for the intercontinental ballistic missile, the United States Air Force required numerous military and civilian skills.

The Air Force, having approved of base designs by General Dynamics. Astronauties of San Diego, Calif. (maker of the Atlas), provided the U.S. Army Corps of Engineers with plans to build the missile sites.

In the Lincoln area, the Corps of Engineers re-ceived a low bid from Western Contractors Corp of Sioux City, Ia., to excavate 12 holes — 52 feet wide and 174 feet deep — to house the missiles.

The silo is a round hole, that could hold more than 3 million bushels of shelled corn. Digging starts in an excavation area of about 150 feet by 200 feet, before the silo shaft itself is dug

12,000 Trucks

It takes about 12,000 standard dump trucks to haul more than 70,000 cubic yards of earth excavated from the huge hole.

The sides of the silo are of reinforced concrete, about 2 feet thick at the bottom and 9 at the top.

One thousand ready-mix truckloads of concrete are needed to pour the 6,000 cubic yards of concrete that go into the silo walls.

Within the silo, ironworkers and other tradesmen install a framework of steel beams called a crib.

The 8-sided crib is suspended inside the silo on giant steel springs designed to withstand earth tremors or bomb blasts.

The launching platform rests atop a 21-foot square

When resting on the bottom, the missile is completely covered by two massive concrete and steel doors.

steel box, which hangs on cables and is raised and lowered like an elevator in the silo. The depth of the silo is equivalent to an 8-story building.

Lincolu Journal 2 Sept 1961

Minute Missile Facts

Yearannonnancomonación de la companiente del companiente del companiente de la compa

Construction & Activation Timetable

(3) months schedule)

1-10 Months-Missile emplacement planning; Construction of missile emplacement (steel and concrete); and temporary facilities for missile ground equipment installa-

10-20 Months-Maintenance of emplacement equipment and facilities; General Dynamics/Astronautics installation and checkout; construction of missile emplacement; delivery and installation of missile ground equipment.

20-30 Months-Maintenance of emplacement equipment and facilities; subsystem checkout; intersystem checkout, proving demonstrations and United States Air Force acceptance.

Companies & Craws

Lincoln Site Activation Task Force (SATAF)	Military	Civilian
Lincoln Site Activation Task Force		
(SATAE)		
\~~***** /	35	75
Corps of Engineers	7	85
General Dynamics/Astronautics and		00
subcontractors		1,671
General Electric Co		16
International Telephone and Telegraph (lo.,	
Kellogg and subcontractors		67
Cook Electric and subcontractors		78
Air Products Co	2017	6
Bechtel Corp	****	2
Black & Veatch	• • •	4
Western Contracting Corp. and sub-		1
contractors	• • • •	2,500
	_	
Total	42	4.501



Control Center

The electrical power generating units in the silo generate enough power to supply the needs of a city the size of Grand Island.

Approximately 650 miles of electrical wire connected to 27,000 terminals are used in one missile com-

More than 7,500 mechanical parts, 1,100 hydraulic parts and 1,375 pneumatic parts are required.

A launch control center .. buried about 45 feet deep, 100

connected by an under-, ground tunnel to the silo. launch emplacement.

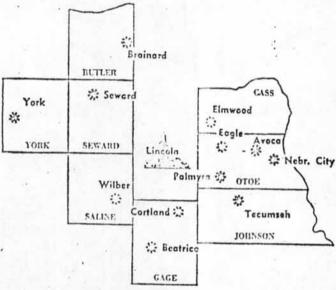
Built of reinforced concrete, it also has a steel crib inside, which is held up by giant, air-cushioned shock absorbers.

This is the nerve center of the missile complex, eventually to be operated by 5 airmen.

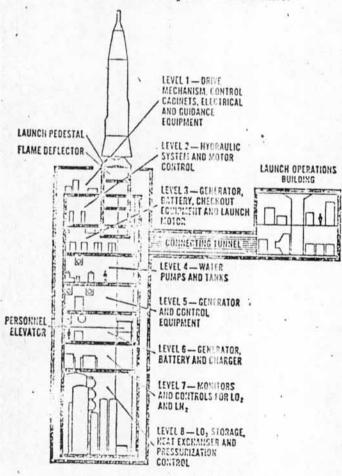
site a few miles north of Tecumsch in May, 1960.

In June of this year, Tecumsen was the first to have its major phase of construction completed and the Corps of Engineers handed the project over to Lincoln Site Activation Task Force (SATAF). Headquarters of SATAF is at Mead.

Since June, construction



Lincoln Missile Complex-12 Atlas Sites.



Cutaway drawing of Atlas silo.

on 10 complexes has been completed, leaving 24 to be finished.

From the beginning, General Dynamics, Astronautics as the principal associate contractor, along with many other contractors were working with the Corps of Engineers in the base activation program.

Other major contractors include: General Electric Co. (defense systems department and missile and space vehicle department), International Telephone & Telegraph Kellog Co. (communications), Rocketdyne Division of North American' Aviation (rocket engines), and many other lesser known, but equally important.

After Western Contracting Corp. finishes the major phase of construction for the Corps of Engineers the responsibility rests on SATAF.

Col. Vernon L. Hastings, 44, SATAF commander, a native Nebraskan from Aurora, said the military and civilian technician-engineers and the construction workers have developed a combined pride in achievement since the missile program began.

Hastings said putting highly skilled military and industrial teams into the same harness probably has been the most remarkable part of the missile program during the construction and activation phases.

The technological complex ity of the Atlas weapon system presents a vast and demanding management task which is shared by a large cross-section of military and civilian organizations.

Joint Effort

At staff level, Hastings has military and civilian personnel working in joint effort to strengthen the nation's defense system.

In an effort to accomplish the site activation mission in the most efficient, economical and timely manner, SATAF is responsible to the Deputy for Site Activation, who is directly under the Commander of Ballistics Systems Division, in Los Angeles. A melting pot of technologies has resulted from close communications between each work skill, said Hastings.

LINCOLN JOURNAL 2 Sept 1961



This combination of human effort is giving America its first weapon which can place nuclear warheads on nearly any spot on the globe from the bases.

Lincoln's \$150 million 12complex program, which is part of 129 Atlas complexes being built across the nation, is scheduled tentatively to be finished in late summer or early fall, 1932.

LINCOLN JOURNAL 2 Sept 1961



Air Force man checks diesel generate one of thousands of pieces of machiner in completed complex.

Readying launching platform for installation.

(6)

Freak Tornado Kills Missile Site Worker

Edward L. McCartney, 50, of 4413 Calvert was killed Saturday night when a "freak tornado" lashed through the missile base near Palmyra where he was standing guard.

According to Otoc County Sheriff Ralph Hall, who investigated the death, McCartney was in a guard trailer at the gate to the base when the tornado caught it up and rolled it on its sides for about 150 feet.

Sheriff Hall said McCartney was apparently then thrown from the vehicle as its roof tore open, landing some 12 feet north of the point where the trailer came to rest.

First Day

It was McCartney's first day on the job, Sheriff Hall added, and he had been on duty only a few hours when the incident occurred.

Dr. Stephen Gatley of Syracuse pronounced the Lincolnite dead of a broken neck. The physician said McCart-ney also had several bruises, a broken leg, and lacerations on the back and side of his head, all apparently received in the tossing trailer.

"It was definitely a freak tornado," said Sheriff Hall; "it did little other damage in the area aside from tearing

some wires down."

McCartney was born in Optima, Okla., and had lived in Weeping Water before coming to Lincoln in 1940. Previous to his job at the missile base, he had spent 15 years as superintendent of the dairy at the Nebraska State Penitentiary.

He was a member of the College View Masonic Lodge

320, AF & AM.

His survivors are: a wife, Thelma; son, James of Minneapolis, Minn.; mother, Mrs. Nannie James of Elmwood; sisters, Mrs. Zola Peterson of Omaha, Mrs. Marguerite Mc-Kinnon of Beaumont, Calif., and Mrs. Thelma Trunkenbolz of Lincoln.

Funeral services are pend-

ing.

Freak Twister "STAR" 4 Sep61 Hits Elmwood

Missile Site

Elmwood-A "freak tornado" like the one that killed Palmyra missile base guard Edward L. McCartney of Lin-coln also hit a missile site near Elmwood.

Frank N. Vivant of the Western Contracting Co., Lincoln-area missile site builder, said the twister picked up a trailer, rolled it over and split

A Quonset hit was damaged and a car was demolished, Vivant said, but no injuries were reported.

Elmwood is approximately 11 miles northwest of Palmy-

ra.

OMAHA DISTRICT LING LM JOURNAL, LINCOLN, NEBRASKA 7 September 1961

LETTERS TO THE EDITOR

Missile Sites

Lincoln —I have a criticism which should be voiced by people who are interested in the future of our great country.

The picture page, by Marvin Hatcher (Sept. 2), about the 12 missile bases around Lincoln described how the missiles were built, the dimensions of the silos, how constructed, how many men it takes to operate each center, and the exact location of each site.

Russia doesn't need to send spies over here because we publish such information. They only have to take articles, pictures and maps, such as these, from ner capers over the country and accordingly plan a systematic destruction of our United States.

After his inauguration, President Kennedy asked news services to impose a self-censorship. I believe it's time for the news media of this country to assume the responsibility of a self-censorship to help protect us.

DORA M. ROLLOGAS

The article mentioned was prepared with cooperation of

the SAYAF Command (Sac Activation Task Porce) and SAC (Strategie Air Command) efficials and public information units. The article was cleared for security and written by a staff member who is a former SAC information member and who is security-conscious.

The letter writer has well expressed one side of the information dilemma. The other side is the problem of the military in making the public aware of where the military spending is going and why it is essential to the country, along with the importance of avoiding delays in missice site construction due to labor interruptions.

Like many aspects of democracy you can't achieve both opposites with one policy.—Editor.

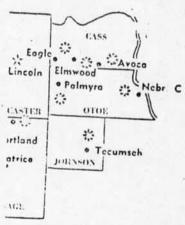
Weeping Water — Marvin Hatcher's article (Sept. 2), entitled "Atlas Base Construction at Full Speed," was quite informative, but the map which accompanied the article was misleading.

Three of these sites are in Cass County, within a stone's throw of highway 34. One is between Nchawka and Weeping Water; one between Weeping Water and Elmwood; one between Elmwood and Eagle.

Let's put the sites on the map where the holes in the ground are located.

C. C. BEACH

Bravo to Reader Beach for a sharp eye. A mistake was made in the art department



when the sites were arranged on Highway 2, at Highway M. The correct d map appears above.—Ealter.

New Atlases Salted For Lincoln Sites

Omaha (A) — Strategic Air Command headquarters said Wednesday the Atlas missile complex at Lincoln will be equipped with the new F series missile, which was tested at Cape Canaveral, Fla. last month.

The Atlas F, capable of placing a nuclear payload on a target more than 6,300 miles away, flew a 5,000-statutemile course down the Atlantic missile range in its test and within 30 minutes hit "on target."

The F series' main propulsion system develops 339,000 pounds of thrust, 165,000 in each of two booster engines and 57,000 in a single sustainer engine.

• The Lincoln launch sites are underground sites. Other bases under construction to be equipped with the F series Atlas are at Schilling AFB, Kan.; Altus AFB, Okla.; Dyess AFB, Texas; Walker AFB, N.M.; and Plattsburgh AFB, N.Y.

The Omaha Atlas complex, which has the so-called coffin type launcher, employes the D series and is not affected by the entry of the series F Atlas into the SAC arsenal.

While Nation Watches Football

יים ברום ביו וויים

By Joe R. Seacrest

Cheyeane, Wyo .- While Nebraskans and millions of other Americans enjoyed their regular Saturday football, crews of Air Force missilemen were maintaining com-readiness here at the largest Atlas missile base in the Western free world.

The world's millions read daily the latest news of the international countdown on the Berlin question. But here the Lincoln area are inin Cheyenne a small number tended for completion in the of highly trained, screened. fall of 1962. dedicated men are at battle stations, the launch pads of ready-to-fire intercontinental the Lincoln Air Force Base nuclear ballistic missiles.

Their launch areas are patrolled by men with car-

Their crews do everything in twos to guard against erew sabotage of any one of the million wires or valves controling the missile weaponry whose individual destructive capability is virtually equal to all the TNT used in World War II.

Their launching officers wear loaded sidearms to prolaunching codes which separate the continuous exercise alerts from the real order to fire. The order that might come if the President so directs over the awesome red telephone connecting the tegic Ai. Command underground nole at Offutt Air Force Base in Omaha.

cation verification to protect the world from the catastropine of a mistake.

Their half million dollar electric computers contain pre-selected missile target

ed with nuclear wariseads to be armed in the process of

These men control the minute-by-minute preathing" of an operational weap-

Their mase comes are load-

on at 230 to as whose trajectory into space will reach a height of 500 miles and cross continents to distances up to 9 thousand miles to target at speeds of 16,000 miles per hour.

Elapsed time? Around 30

Accuracy?. One Pacific test fired within 2,400 feet of target pin point.

Firepower? Each missile probably equals all the TNT dropped on Germany during 6 years of World War II.

A whole poneration of missile weapons has been concen sa in the awesome time contoression of 15 years from idea to operational missile-work that represented containes of man-years of effort research, and technical and industrial development

Yesterday it was Atlas D lying horizontal on exposed launching pads.

Today it is Atlas E. toughened out still horizontal and exposed.

Tomorrow at Cheyenne, Lincoln, and Kimball, Neb. and other points it will be Atlas "F" hardened in a below-ground lat nehing silo of 174 feet of buried depth.

Next day 'i...an, also hard-

The day after temorrow (1962) the Arias series will still be operational but made technologically obsolete by the successor generation of Minuteman, a small solid fuel missile, defense hard-

Continued: Page 31, Col. 1

Quality-Tender Meat at Klein IGA, 815 So. 11. Open Sun. 7:30am 10pm.-Adv.

Missiles Here in '62

Atlas "F" missile sites in

Already 600 Air Force personnel to be assigned to are attending missile training schools. Operational personnel will be deployed to the 12 sites:

Avoca, Brainard, Beatrice. . Cortland, Eagle, Elmwood, Nebraska City, Palmyra, Tecumseh, Seward, Wilber and York.

Maintenance and command personnel will be located at the Lincoln Air Force Base.

These and other personnel will comprise the 551st Strategic Missile Squadron, a portion of the Strategic Air Command's 318th Air Division, presently commanded by Col. Thomas G. Corbin.

Each launching pad will be hardened, buried 174 feet in concrete protected silos in the ground. The missile maintainance hangar is now in construction. The missile command will be visually directed with the bomber The order to fire missiles command and alternative requires a coded communi- command posts provided.

Handral of U.S. Missils

Overaulonal in Two Years

Continued from Page 1 ened by Larying, operated without crews on the site, and built on assembly lines at fractions of Allas' cost.

When the operational missile was activated at Warren Air Base here, the American continent entered the age of push button warfare.

Today only Warren and Vandenberg, Calif., have operational missiles.

In two years, the nation will have hundreds.

The missile thus joins SAC's 1,500 manned bombers based at Lincoln and around the world in a new strategic concept of Mixed Forces.

SAC commanders state that the missile will not replace the manned bumber, that the two are complementary weapons.

Bomber advantages include an ability to deploy

use in limited wars, overtoract reconnaissance, creater versatility of target se ceical over target positive ability to control and call back upon faise alarms, plus the ability to reuse again and again.

The missile advantages inlude hypersonic speeds (16,-100 mph). It is difficult to intercept once the nose cone containing the war head has separated from missile (like a bullet leaving a rifle) 5 minutes after launch.

Missiles, in addition to compounding the enemy attack problem, have space peace potential.

The first operational missile with launching pad cost almost as much as the world-farnous Nebrasia Captol—\$7.5 million. On mass production basis now, the cost of each equipped launching pad is done to \$2.5 million. With mass-produced inuteman, it may cut itself a half again.

Ground-missile' guidance iding is at the rate of twice second and a separate vertor engine exists to control e speed within a tolerance. I foot per second rate if my deviation of speed occurs at 22,000 feet per second just ahead of noce cone paration.

The mixed force concept missiles and bombers, the nategic Air Command ands 20% of the U.S. dense dollars and controls of this nation's nuclear

What is the dollar price to put upon peace?

In the SAC concept, the terrence of this nuclear power upon the enemy with well have bought several years of cold war peace, well as an ability for the stern World to bargain a position of strength the count-down on Berlin.

Only 3 years aid by test firing, the missile concept is changing from liquid to solid fuels.

If you would see the myriad of pipes and valves and problems of moving and mixing nitrogen and liquid oxygen at boiling temperatures toward absolute zero in an 81 foot missile whose shell is thinner than a dine, without structural supports, and maintained in shape only as a balloon pressured by inflation with helium, you can quickly grasp the design and operational advantages of solid fuels.

Some Atlas "D" launchers here require 105-men crews. Lincoln's Atlas F will need only 76.

Titan requires but 55. And solid fuel Minuteman (first test-fired this February) only 8.

Atias requires a warmup readiness period. Minuteman reacts on the first button push.

Comparatively, Minuteman is surviable, simple, reliable, and cheap.

The support and maintenance function with Atlas requires more men and equipment than the "bird" or its launen mads.

Neither Atlas nor lithuiteman can be jammed after; nose cone separation.

nose cone separation.

Recent missiles have shifted from ground guidance to carried-guidance systems using pre-set target and flight course maintained by inertial guidance systems which work on the same principle as the piano tuning fork. This does away, with some complicated radar and guidance steps needed by earlier Atlas series.

Though it may be obsolete by comparison with the Minuterian generation, Atlas is a femastic acrisyement.

The 75-feet long Atlas emerges from a C-133.

His Filler came to Lincoln Friday.

Star Staff Writer

Its long steel frame gleaming in the brilliant Octobr sunshine, Lincola Air Force Base's first operational Atlas missile slid down a ramp through the huge double doors of a giant C-133 Cargomaster.

The 25-ton missile arrived by air from San Diego the night before.

It left the plane reluctantly, its massive weight snapping cables like threads.

A one-inch cable used to help lower the missile down to the ground on its special steel tracks cracked through he air like a whip, slightly injuring two General Dy-

time.

Arrival of the 75-foot-long intercontinental ballistics missile signaled the 818th Air Division's entry into an era of "mixed force," a combination of manned bombers and offensive missiles.

This particular Atlas will eventually be delivered to one of the Lincoln area's 12 launch sites.

(The last of the dozen silos will be turned over to the Air Force Monday by the Army Corps of Engineers, marking the completion of construction.)

and maintenance building adjacent to the LAFB flight line ramp area - will be completely assembled and First, the missile-which was towed to an assembly checked.

That process takes several months.

Atlas (Head-On) . . . Ready To Go.

ity, is transported separately. It is fitted onto the missile at launch site. The deadly nose cone, equipped with nuclear enpubil-

censured two hours'

Twelve more Atlases will be flown to Lincoln in com-

ing weeks, the last scheduled to arrive by winter. The Atlas squadron will be operational—ready to fire

A number of Air Force officials and civilian guests -by next summer or fall.

observed Friday's unloading ceremonies.

towed it to the million dollar assembly building.
Atlas travels more than 16,000 miles an hour in a trajectory reaching up to 590 miles allitude. It can reach an enemy target within 30 minutes. . The missile was mounted on its own 4-wheel vehicle which rested on steel tracks within the C-133. A tractor

Lincoln's missiles are stored in underground launch

"JOURNAL" 150st 61 Covere

Atles Silo

Completed

Site Activation

Unit Takes Over

By Marvin Heicher
Seward—The last and
meanest Atlas F missile silo
c omplex's construction
phase in the Lincoln area is
complete.

This marks the end of a long, hard struggle against shifting sand, and gallons upon gallons of water, dozens of feet underground.

Beginning June 3, at times, workmen here at the Atlas missile site worked shoulder to shoulder in an effort to keep back wet clay which flowed into the excavation almost as fast as it could be removed.

Work nearly stood still on various occasions:

Even with the extra home building problems for the nation's first operational intercontinental bellistic missile, other work was set at a more rapid pace, and the construction phase was completed on schedule according to Col. Vernon L. Hastings, Site Activation Task Force commander (SATAF) at Mead, a part of the Air Force Builistic Systems Division.

A milestone in the missile history of the Midwest was climated by the formal turnover of the site to Hastings by Col. John E. Minahan of the Lincoln Area Corps of Engineers Ballistic Missile Construction Office.

On the completion of the site installation and check-out phase in a few months, which will include a ready missile inserted in the sile hole, Hastings will turn the site over to the 551st Strategic Missile Sqdn., a unit of the 81 th Air Division, Lincoln Air Force Base.

17 Oct 51 Engineers Turn Over Last Missile Silo To Air Force

A brief ceremony took missiles, sub-systems and place Monday at the Seward aero space ground equipment Atlas missile complex mark- is being continued by the Air ing a significant milestone in Force with the integrating the transfer of the last Lincoln Air Force Base intercontinental ballistic missile silo from the Corps of Engineers to the U.S. Air Force.

Air Force and civilian officials witnessed the formal sile construction officer, to Col. Vernon L. Hastings, commander of the Wahoo Site Activation Task Force (SATAF), a part of the Air Force Ballistic Systems Division.

Installation and check-out of

contractor, General Dynamles/Astronautles.

Upon completion of the installation and check-out phase, the completed complex with its ready missile will be turned over to Col. turnover of the silo from Col. Edward P. Denton, command-John E. Minahan, Lincoln er of the 551st Strategic Misarea engineers ballistic mis- sile Squadron, of the 818th Air Division, SAC, Lincoln Air Force Base.

> At the Seward complex, a unique feature is the heavy steel piling which extends 25 feet below the bottom of the silo into the soft underlying material and whose upper ends are embedded in concrete walls.

Lincoln is one of the 6 Atlas "F" sites now in various phases of construction or installation and checkout. It is the second squadron to have completed the construction phase, the first being the Schilling squadron at Salina,

Kan. Other Atlas "F" sites are being built at Salina, Kan., Altus, Okla., Roswell, N.M., Abilene, Tex, and Plattsburg, N.Y.

Missile Ba

dealing with big strikes as well as improving methods for employes and labor oganizations to solve their problems.

26 The Lincoln Star Wednesday, Oct. 18, 1961

of Labor Arthur J. Goldberg reported Tuesday that after two recent missile base labor strikes he has obtained a renewed no-strike pledge from labor unions involved in base construction work.

Goldberg submitted a summary to President Kennedy labor situation and to resaying that although work port on a two-day meeting of time lost to strikes has been the President's Labor Managevastly reduced in the 4 months | ment Advisory Committee that since Kennedy established a ended Tuesday.

Washington (4)- Secretary Missile Sites Labor Commission the number of lost work up of representative of labor, hoped that some if not all the hours is still too high.

"It is too high in view of the critical importance to the nation of our missile and our space program," Goldberg said in a letter to the Presi-

Goldberg held a news conference to release the missile

The latter committee-made management and public - is reports will be ready to give busy working on a series of 5 to Kennedy after the labor policy reports for submission to Kennedy.

The reports will deal with suggested policies on wages and prices, collective bargaining, economic growth and unemployment, automation, and maintaining American markets abroad.

The labor secretary said he management panel's next meeting Nov. 28, which will be its 6th full session. The two most far advanced reports deal with automation and collective bargaining.

Goldberg said that the collective bargaining report will suggest new procedures for

Washington (2) - Strategic | targets." All Command and intercon- Pittman said protection The launching sites for the cut bellistic missile bases against a direct lit by a nu- long-range Alias. Titan and in this country probably sould clear weapon "is practically Minuteman missiles generally be prime targets in the event of a nuclear war.

And areas in the immediate vicinity of such military installations also could be trouble in such a confli-

Although no one know for econin, there appears to be goal of agreement here that mallery bases holding the natiea's arelear power, rather than cities, would bear the brunt of a quick enemy Sirilie.

Stenart L. Pittman, assistant secretary of defense for civil defense, said it is doubt-

Habrasha Hows

a ver within the next few years would be to destroy permution or industry.

"Nobody knows enough to say whether cities will or won't be targets." he told a re gran, "but we do know; ence it to know that cities work. It subject to fallout from a strike a few hundred miles away."

" Clading Impractical"

As: a it if is possible to rate J.S. cities as potential targets, Pittman said:
"We think it is impractical

to the to rate cities as likely or undicty targets. We are not this for civil defense planting any list which distinguishes between cities as

impossible but protection can fan out like spokes in a wheel be taken against fallout."

Adam Yarmoliusky, special most cases a SAC base. assistant to the secretary of Scattered Bases defense said in a recent ICBM bases are scattered speech that "a reasonably through the central and westplanned enemy attack now or ern sections of the country, in the next few years would including the two in Nebraska concentrate on military tar- and others in Montana. North gets" because few weapons and South Dakota, Misseuri, could be spared to hit cities Colorado, Idaho, Arizona,

Omaha would be a much more On the question of fallout, likely target than Washing- a House Military Operations ton."

is headquarters of the Stra- fallout on cities: for that the objective of such tegic Air Command. An Atlas | Schilling AFB, Salina, Man.

at the Lincoln Air Ferre mase.

from one control point - in

without military installations. Kansas, Arkansas, Wyoming, "We can only guess," Yar-Oklahoma, Texas, Washing-molinski said, "but I think ton and California.

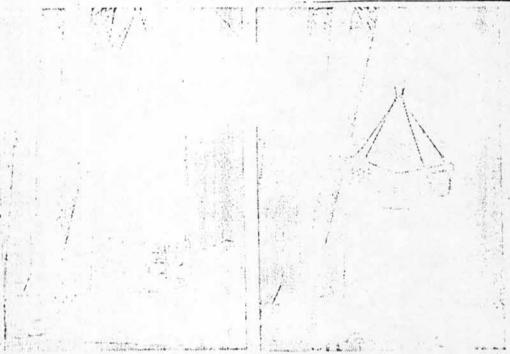
Ya molinsky didn't emplify last year by government methis remark but presumably teorologists indicated that an he had in mind that Offutt attack on these missile sites Air Force Ease, near Omaha, would pose this probability of

missile complex also rings
Offutt and a larger Atlas facility is spotted not far away

Kansas Čity, 50%; Forbes
AFB, Topeka, Kan. — Kansas
City, 60 per cent; Lincoln
AFB, Lincoln, Neb. — o naha, cocc.

Offutt AFE, Gaala - Omaha, much greater than 63%; Larson AFB. Moses lake, Wash. - Spokane, 40%; Fairchild AFB, Spokane, Vash. - Spokane, much greater than 40%.

OMAHA DISTRICT WORLD-HERALD + CMAHA, Nebraska 4 November 1961



Platform in place at top of silo . . . Workmen lower structure inch by inch.

Two-thirds into silo . . . Platform will be in approximately this position when missile is fired.

Story below.

-World-Herrid Photos.

'Ticklish' Job Goes Without Hitch-

Atlas Launching Platform Installed

By Harold Cowan

World-Herald Staff Member

Brainard, Neb.—A launching platform as high as a three-story building was installed Saturday morning at the Atlas missile complex near here.

A job described by engineers and heavy equipment men as "ticklish" went without a hitch.

In a little more than an hour the 275thousand-pound steel structure was "in the groove" at the top of a 174-foot deep concrete silo two miles northeast of Brainard.

It is the second such installation at a Lincoln Air Force Base missile site.

The first was last month near Te-

Essentially a large elevator used to support the missile, the launching platform is constructed of steel beams and plates. It is 17 feet square and 43 feet tall.

The Atlas missile sits on the launching pedestals atop the platform, and supporting equipment is installed on three levels below in the platform.

In one unit the platform was lifted off supporting structures with a two-hundred-ton capacity guy derrick standing 120 feet high. The platform was then rotated over the silo opening and lowered inch by inch with four wheels placed in guide rails.

The silo is an underground, concretelined cylinder 52 feet in diameter. Reinforced concrete walls are 2½ feet thick at the bottom and nine feet thick near the silo cap. The cap is made of thick, reinforced concrete with a rectangular opening to permit raising of the missile and launching platform.

Two overlapping, hinged doors are on the opening.

The platform was lowered only about two-thirds of its height into the silo Saturday.

After the missile is in place, the platform will be lowered to its stand-by position near the bottom of the silo. Firing position is from the surface.

In the silo, the launching platform is supported by steel cables and is raised or lowered by a driving mechanism, counter-balanced by weights of approximately 270 tons, in the same manner as a public elevator.

Ingliedin Wishingt

Force and a second investor contract to Contract Dynamics Corp. Ast. 1.15 Division, San 14 to, Chi., for Atlas silo hattachia, squadrons.

The sales are pits for launching Alas missiles. Included is ork at Lincoln Air Force

callier latter of intent for the same amount.

The first Atlas F silo at speaker during ceremonies Walker AFE was completed held to mark the event. Force on Oct. 31, with Maj. SATAP Commander at Gen. A. C. Welling, Deputy Walker AFB, was host for for Site Activation, BSD, asithe affair.

CONTINUES ON

1-MAN JUNKET

Mearney (UPI) - Rep. David Martin, R-Neb., left Sunday on a personally-financed trip to missile bases in Kansas to see if there is waste in the fields of both labor and management at construction sites.

Martin went to Schilling Air Force Base at Sillia, Ban., and planned to go from there to Corbes Air Porce Base at Torcka and McConnell Air Force Base at Wichita, He said he hoped also to go to Longy Air Force Base at Denver.

Martin has already visited Offut Air Force Base at Omaha, Lincoln Air Force Base and Warren Air Force Base at Cheyenne, Wyo.

Martin has made the trips! at his personal expense because the chairman of the House Education and Labor Committee 'am Clayned down for committee authorization.

Marsin said his first trip turn to up what he described as "Thereus examples of war and government money on missic base construction projects."

Hurried Construction Blamed for Bad Guess On Missile Sites' Cost

Air Force Put Earlier Estimates For Bases \$225 Million Below \$1,273,000,000 Current Figure

WASHINGTON—The Air Force said hurrywashington—The Air Force said hurryup construction procedures were mostly to blame for a \$225 million bad guess on the cost of building launching bases for Atlas and Titan missiles.

Air Force Secretary Zuckert told a Senate A med Services subcommittee that as a time-saver the Air Force began building the huge concrete bases long before the missiles they were to house had been flown, "much less by tested," and construction schedules were highly compressed."

This procedure is saving years over tradiyonal step-by-step methods, he said, but it also has compounded the problem of estimating costs accurately. As the missiles themselves were built and test-flown, the need for oftenextensive changes in the base construction becards apparent.

"Estimating is difficult enough for routine construction; and missile bases have had more than their quota of the 'normal' contingencies—from bad weather to adverse aub-surface conditions, from the national steel strike (in 1970), to local labor disputes," Mr. Zuckert said. "Ecyond doubt, however, missile tase construction has never been routine. Whether the test is size, first-of-a-kind technology, or urgency, it has no parellels in past experience."

Those are the reasons why estimates of missic-base construction costs have jumped to \$1,273,000.00 from \$1,048,000,000 last July, Mr. Zuckert said.

WALL STREET JOURNAL 5 March 1962

What is "unique" in this program is the extent to which a base change generates indirect costs, Mr. Zuckert declared, "Typically, major changes did not occur until the work was well under way, precisely when their impact was greatest," he said. "In the later stages, moreover, the effect was further heightened as changes accumulated, and were superimposed, one upon the other. So it was, all too often, that contractors themselves were not aware of the full cost of a change theil after the fact, and only then were able of submit documented cost proposals."

The official said that by I shrung 1901, when the Air Porce gave Congress an over-all cost estimate of \$506.2 million, estimates submitted by contractors were meeting in "alarming proportions."

"At first, contracting officers found it difficult to credit these estimates with much more than an inclination on the part of contractors to protect themselves," he said, "But as discussions with contractors got fown to causes, and the hard fact on impact costs were laboriously developed, our caution gave way to a recognition that, if contractors proposals were generally high, ours were often low."

After a preliminary review, Mr. Zuckert said, the Air Force submittee the \$15.000,000 estimate to Congress has July, at the same time warning that it might have to be revised upward later "when the costs of changes and claims are more definite."

Thus, with the revision of claims and the submission by contractors of a "flood" of new and revised claims, the overall collimate has been boosted again, Mr. Zuchert spid.

He expressed hope that the current estimate is accurate. He noted that it includes a \$25 million cushion to cover auditional unforeseen costs.

STAN TE